

# INDEX

## LED Display

|                                             |          |
|---------------------------------------------|----------|
| 7-segment LED Display.....                  | P89-156  |
| Single Digit LED Display.....               | P89-109  |
| Dual Digit LED Display.....                 | P110-119 |
| Dual Half Digit LED Display.....            | P120-121 |
| Triple Digit LED Display.....               | P122-131 |
| Quadruple Digit LED Display.....            | P132-150 |
| Quintuple Digit LED Display.....            | P151-155 |
| Six Digit LED Display.....                  | P156     |
| Dot Matrix LED Display.....                 | P157-173 |
| Single Color Dot Matrix.....                | P157-170 |
| Bi-Color Dot Matrix.....                    | P171-172 |
| Multi-Color Dot Matrix.....                 | P173     |
| Alphanumeric LED Display.....               | P174-182 |
| Single Digit Alphanumeric LED Display.....  | P174-176 |
| Dual Digit Alphanumeric LED Display.....    | P177-178 |
| Triple Digit Alphanumeric LED Display.....  | P179-180 |
| Quadruple Digit Alphanumeric LED Display... | P181-182 |
| Round With Flange Type.....                 | P183     |
| Light Bar LED Display.....                  | P184-186 |

## LED Backlight

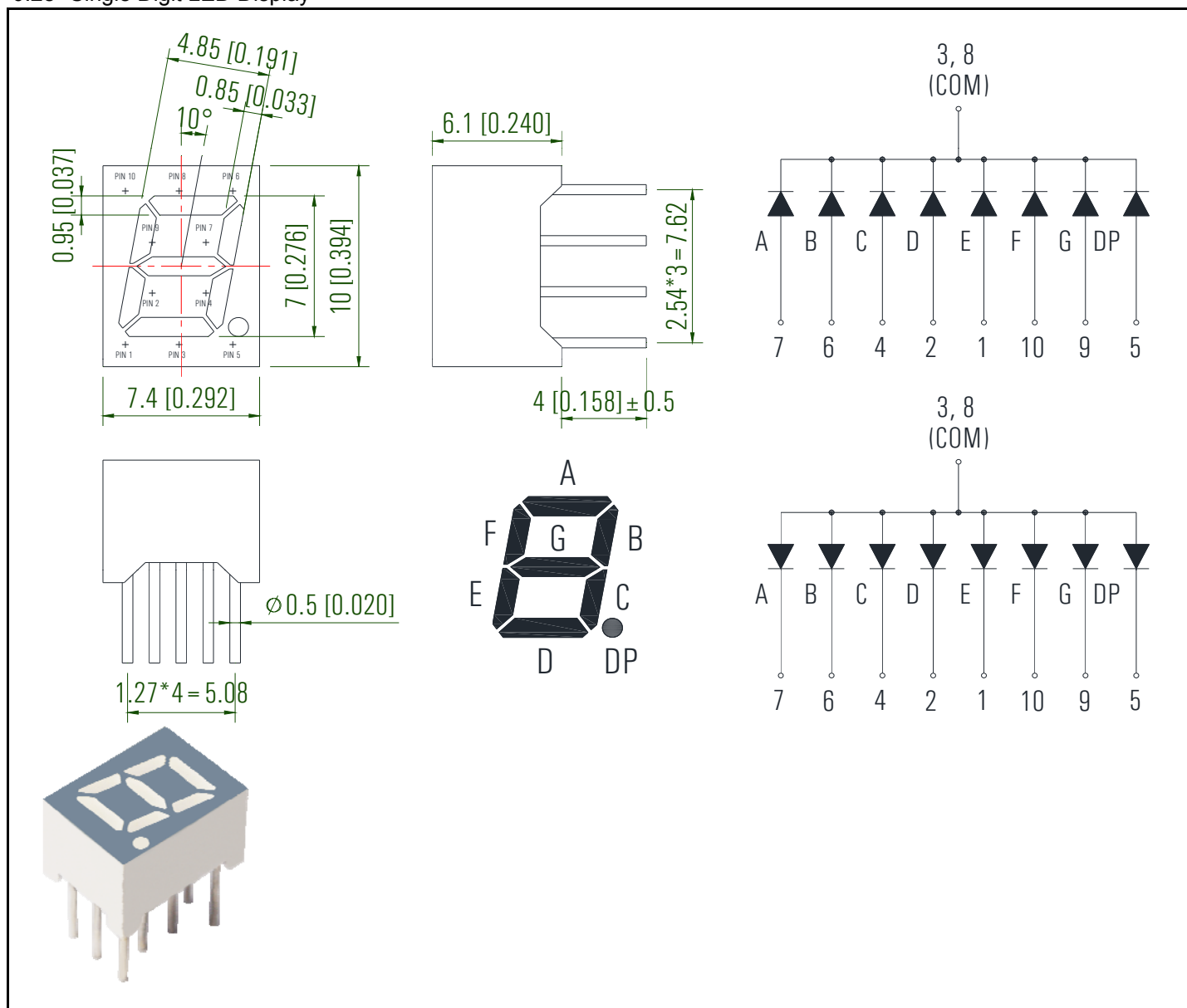
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|---------------------|----------|
| LED Backlight ..... | P187-191 |
|---------------------|----------|

## SMD LED Display

|                                              |          |
|----------------------------------------------|----------|
| SMD 7-segment LED Display.....               | P192-219 |
| Single Digit SMD LED Display.....            | P192-199 |
| Dual Digit SMD LED Display.....              | P200-206 |
| Triple Digit SMD LED Display.....            | P207-213 |
| Quadruple Digit SMD LED Display.....         | P214-219 |
| Alphanumeric SMD LED Display.....            | P220-223 |
| Single Digit Alphanumeric SMD LED Display..  | P220     |
| Dual Digit Alphanumeric SMD LED Display....  | P221     |
| Triple Digit Alphanumeric SMD LED Display... | P222     |
| Quadruple Digit Alphanumeric SMD Display..   | P223     |
| Dot Matrix SMD LED Display.....              | P224     |
| Light Bar SMD LED Display.....               | P225     |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

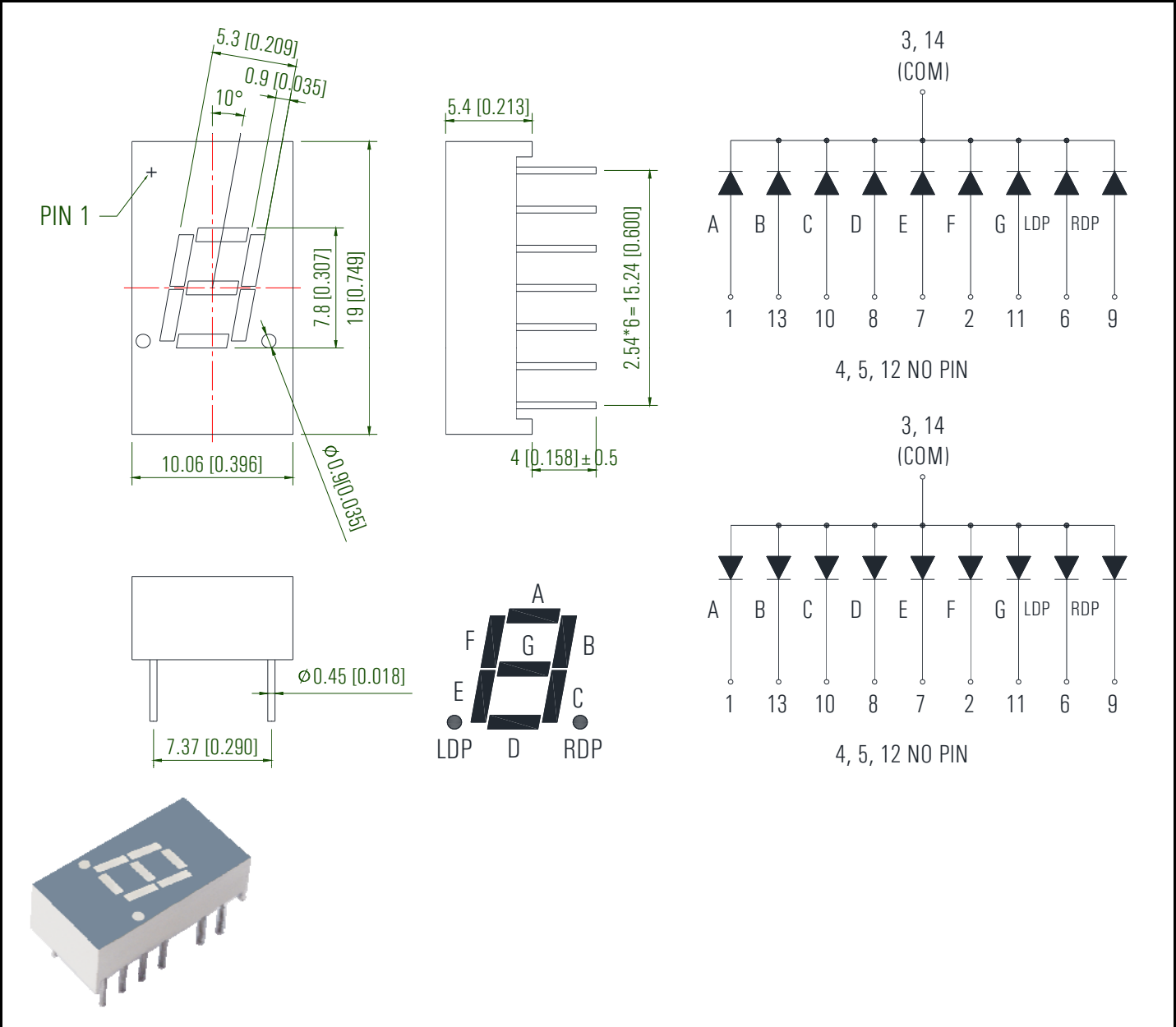
# 0.28" Single Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW1-281CRA    | Deep Red     | 630            | Gray | 20 | 22.0  | Common Cathode |
| KW1-281CAA    | Orange       | 605            |      |    | 30.0  |                |
| KW1-281CGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KW1-281CGA-G5 | Pure Green   | 525            |      |    | 80.0  |                |
| KW1-281CBA    | Blue         | 470            |      |    | 44.0  |                |
| KW1-281CWA-Y  | White        | x=0.30, y=0.31 |      |    | 130.0 | Common Anode   |
| KW1-281ARA    | Deep Red     | 630            |      |    | 22.0  |                |
| KW1-281AAA    | Orange       | 605            |      |    | 30.0  |                |
| KW1-281AGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KW1-281AGA-G5 | Pure Green   | 525            |      |    | 80.0  |                |
| KW1-281ABA    | Blue         | 470            |      |    | 44.0  |                |
| KW1-281AWA-Y  | White        | x=0.30, y=0.31 |      |    | 130.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

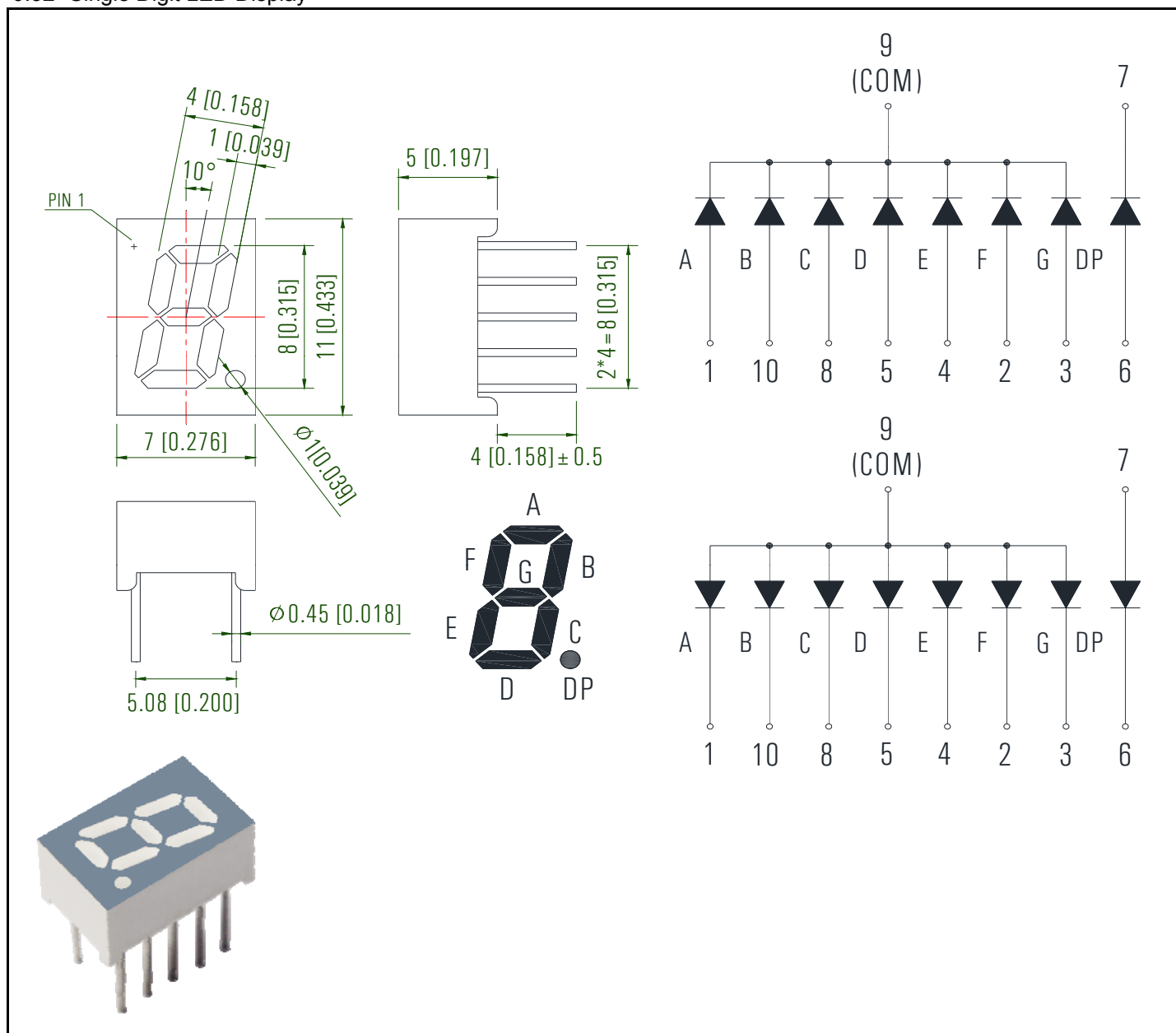
0.30" Single Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW1-301CRA    | Deep Red     | 630            | Gray | 20 | 24.0  | Common Cathode |
| KW1-301CAA    | Orange       | 605            |      |    | 32.0  |                |
| KW1-301CGA    | Yellow Green | 572            |      |    | 22.0  |                |
| KW1-301CGA-G5 | Pure Green   | 525            |      |    | 84.0  |                |
| KW1-301CBA    | Blue         | 470            |      |    | 46.0  |                |
| KW1-301CWA-Y  | White        | x=0.30, y=0.31 |      |    | 136.0 | Common Anode   |
| KW1-301ARA    | Deep Red     | 630            |      |    | 24.0  |                |
| KW1-301AAA    | Orange       | 605            |      |    | 32.0  |                |
| KW1-301AGA    | Yellow Green | 572            |      |    | 22.0  |                |
| KW1-301AGA-G5 | Pure Green   | 525            |      |    | 84.0  |                |
| KW1-301ABA    | Blue         | 470            |      |    | 46.0  |                |
| KW1-301AWA-Y  | White        | x=0.30, y=0.31 |      |    | 136.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

## 0.32" Single Digit LED Display

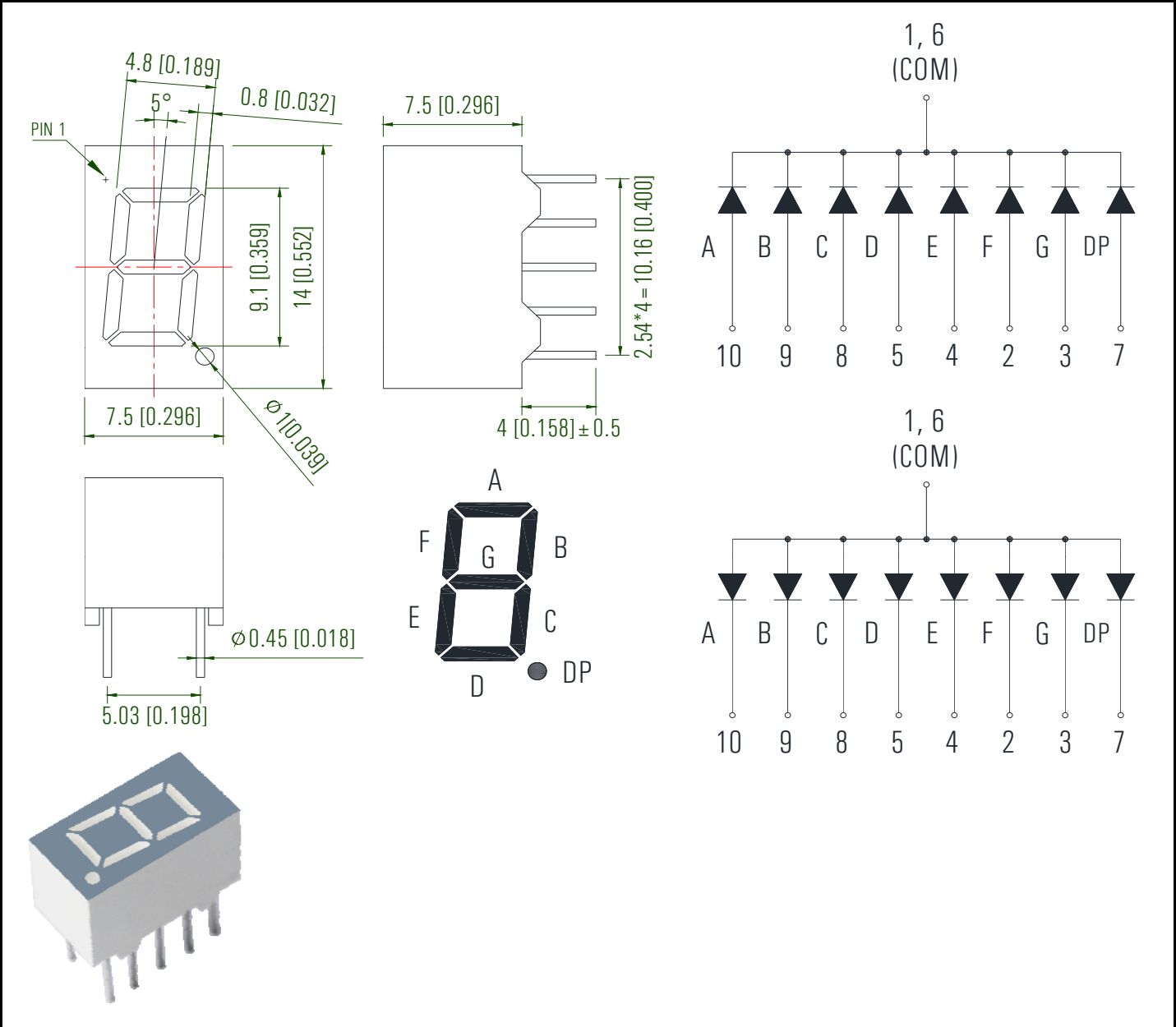


|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW1-321CRA    | Deep Red     | 630            | Gray | 20 | 18.0  | Common Cathode |
| KW1-321CAA    | Orange       | 605            |      |    | 28.0  |                |
| KW1-321CGA    | Yellow Green | 572            |      |    | 16.0  |                |
| KW1-321CGA-G5 | Pure Green   | 525            |      |    | 78.0  |                |
| KW1-321CBA    | Blue         | 470            |      |    | 40.0  |                |
| KW1-321CWA-Y  | White        | x=0.30, y=0.31 |      |    | 120.0 | Common Anode   |
| KW1-321ARA    | Deep Red     | 630            |      |    | 18.0  |                |
| KW1-321AAA    | Orange       | 605            |      |    | 28.0  |                |
| KW1-321AGA    | Yellow Green | 572            |      |    | 16.0  |                |
| KW1-321AGA-G5 | Pure Green   | 525            |      |    | 78.0  |                |
| KW1-321ABA    | Blue         | 470            |      |    | 40.0  |                |
| KW1-321AWA-Y  | White        | x=0.30, y=0.31 |      |    | 120.0 |                |



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

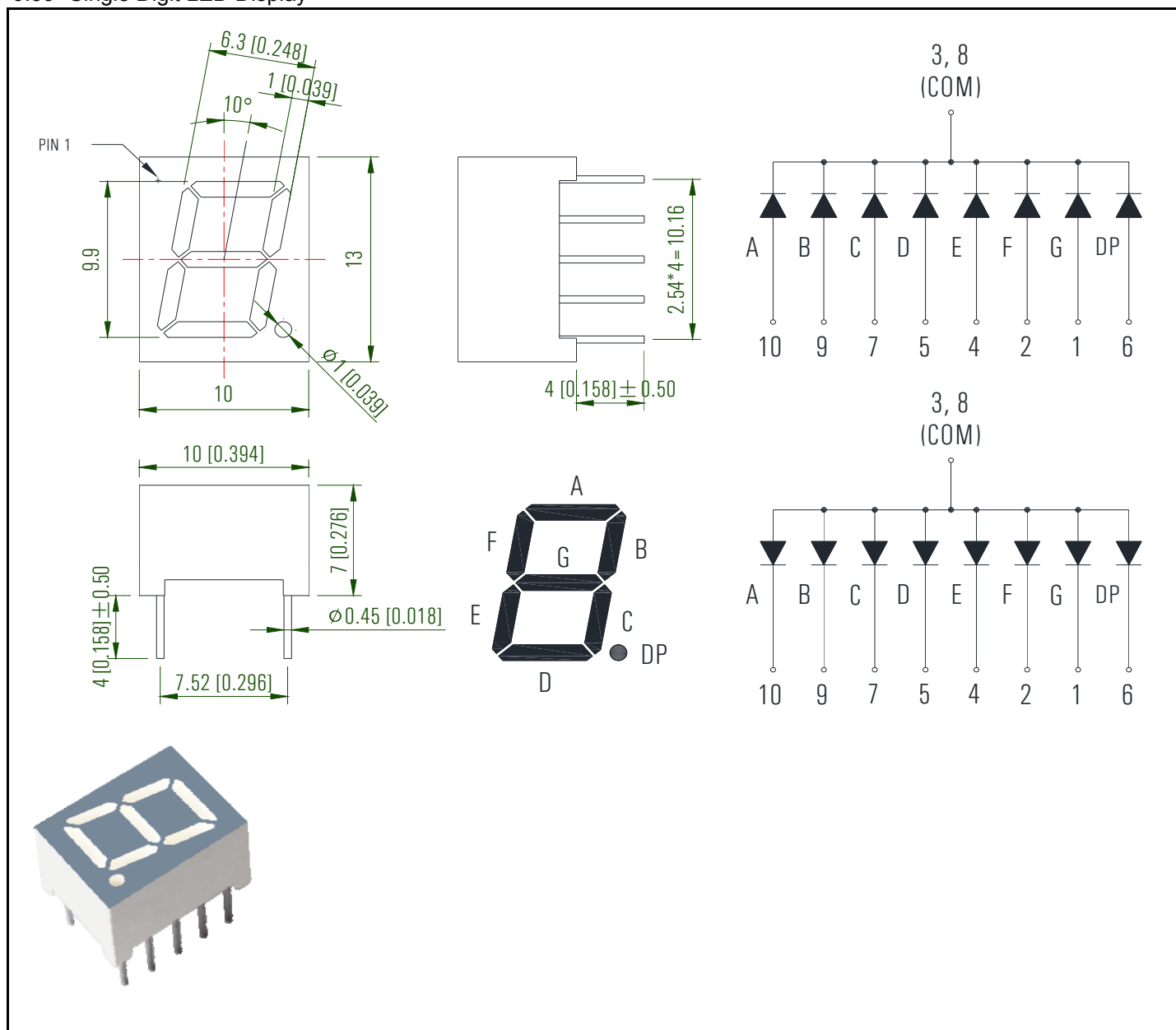
0.36" Single Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW1-361CRA    | Deep Red     | 630            | Gray | 20 | 16.0  | Common Cathode |
| KW1-361CAA    | Orange       | 605            |      |    | 22.0  |                |
| KW1-361CGA    | Yellow Green | 572            |      |    | 14.0  |                |
| KW1-361CGA-G5 | Pure Green   | 525            |      |    | 70.0  |                |
| KW1-361CBA    | Blue         | 470            |      |    | 32.0  |                |
| KW1-361CWA-Y  | White        | x=0.30, y=0.31 |      |    | 100.0 | Common Anode   |
| KW1-361ARA    | Deep Red     | 630            |      |    | 16.0  |                |
| KW1-361AAA    | Orange       | 605            |      |    | 22.0  |                |
| KW1-361AGA    | Yellow Green | 572            |      |    | 14.0  |                |
| KW1-361AGA-G5 | Pure Green   | 525            |      |    | 70.0  |                |
| KW1-361ABA    | Blue         | 470            |      |    | 32.0  |                |
| KW1-361AWA-Y  | White        | x=0.30, y=0.31 |      |    | 100.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

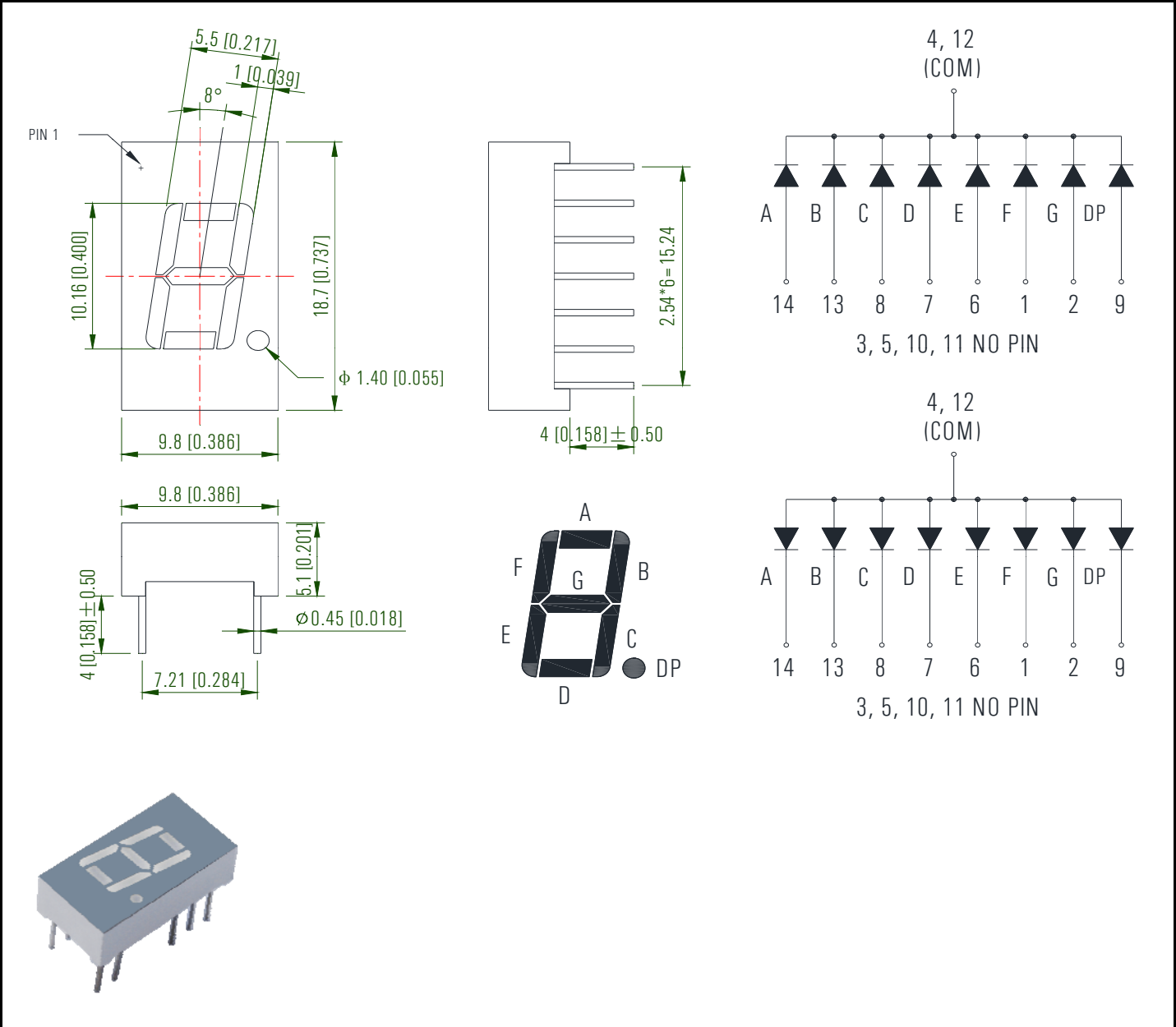
## 0.39" Single Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW1-391CRA    | Deep Red     | 630            | Gray | 20 | 26.0  | Common Cathode |
| KW1-391CAA    | Orange       | 605            |      |    | 30.0  |                |
| KW1-391CGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW1-391CGA-G5 | Pure Green   | 525            |      |    | 100.0 |                |
| KW1-391CBA    | Blue         | 470            |      |    | 32.0  |                |
| KW1-391CWA-Y  | White        | x=0.30, y=0.31 |      |    | 110.0 | Common Anode   |
| KW1-391ARA    | Deep Red     | 630            |      |    | 26.0  |                |
| KW1-391AAA    | Orange       | 605            |      |    | 30.0  |                |
| KW1-391AGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW1-391AGA-G5 | Pure Green   | 525            |      |    | 100.0 |                |
| KW1-391ABA    | Blue         | 470            |      |    | 32.0  |                |
| KW1-391AWA-Y  | White        | x=0.30, y=0.31 |      |    | 110.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

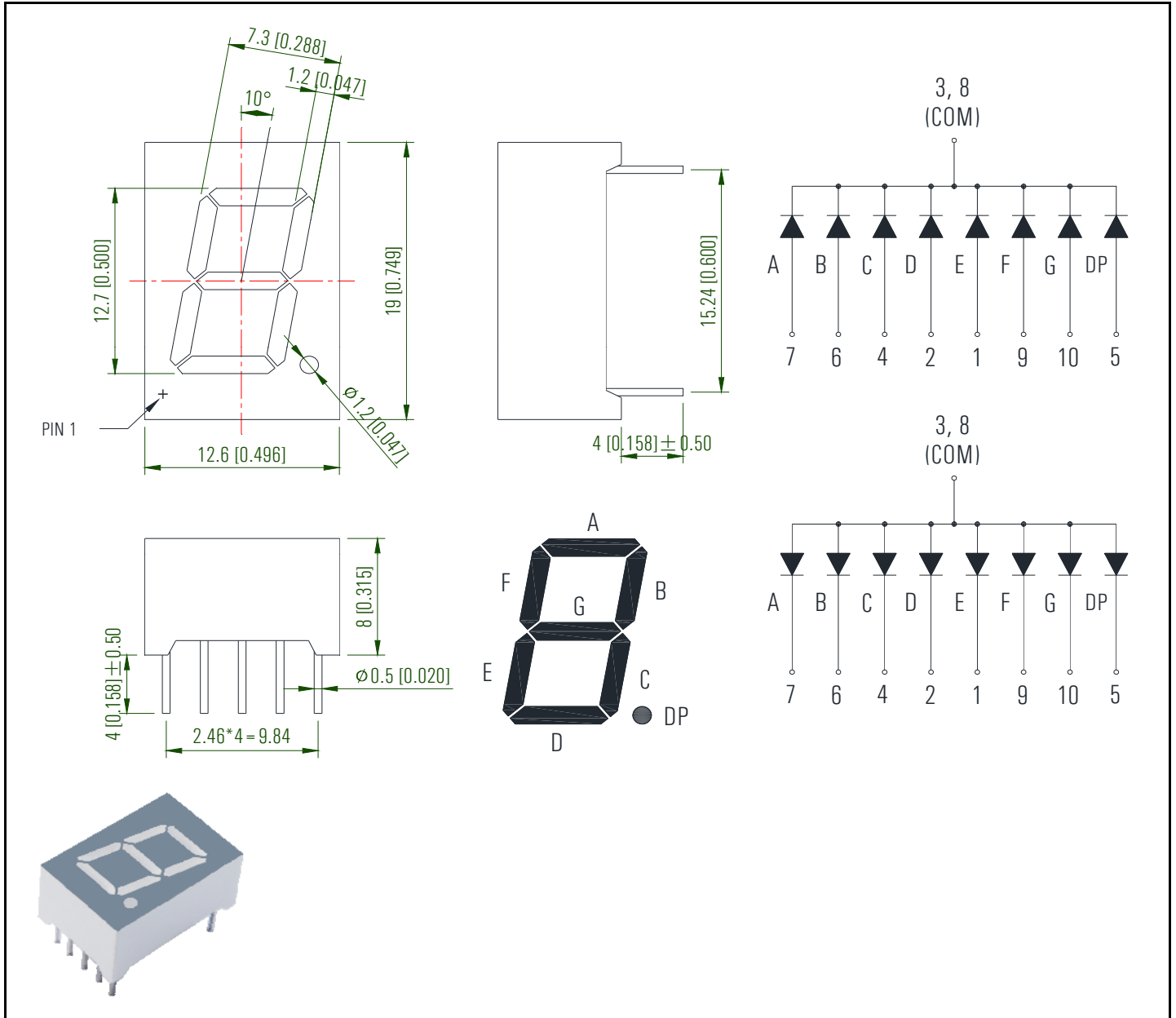
0.40" Single Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW1-401CRA    | Deep Red     | 630            | Gray | 20 | 30.0  | Common Cathode |
| KW1-401CAA    | Orange       | 605            |      |    | 28.0  |                |
| KW1-401CGA    | Yellow Green | 572            |      |    | 16.0  |                |
| KW1-401CGA-G5 | Pure Green   | 525            |      |    | 96.0  |                |
| KW1-401CBA    | Blue         | 470            |      |    | 20.0  |                |
| KW1-401CWA    | White        | x=0.27, y=0.28 |      |    | 100.0 | Common Anode   |
| KW1-401ARA    | Deep Red     | 630            |      |    | 30.0  |                |
| KW1-401AAA    | Orange       | 605            |      |    | 28.0  |                |
| KW1-401AGA    | Yellow Green | 572            |      |    | 16.0  |                |
| KW1-401AGA-G5 | Pure Green   | 525            |      |    | 96.0  |                |
| KW1-401ABA    | Blue         | 470            |      |    | 20.0  |                |
| KW1-401AWA    | White        | x=0.27, y=0.28 |      |    | 100.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

0.50" Single Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW1-501CRA    | Deep Red     | 630            | Gray | 20 | 40.0  | Common Cathode |
| KW1-501CAA    | Orange       | 605            |      |    | 30.0  |                |
| KW1-501CGA    | Yellow Green | 572            |      |    | 18.0  |                |
| KW1-501CGA-G5 | Pure Green   | 525            |      |    | 220.0 |                |
| KW1-501CBA    | Blue         | 470            |      |    | 50.0  |                |
| KW1-501CWA    | White        | x=0.30, y=0.31 |      |    | 260.0 | Common Anode   |
| KW1-501ARA    | Deep Red     | 630            |      |    | 40.0  |                |
| KW1-501AAA    | Orange       | 605            |      |    | 30.0  |                |
| KW1-501AGA    | Yellow Green | 572            |      |    | 18.0  |                |
| KW1-501AGA-G5 | Pure Green   | 525            |      |    | 220.0 |                |
| KW1-501ABA    | Blue         | 470            |      |    | 50.0  |                |
| KW1-501AWA    | White        | x=0.30, y=0.31 |      |    | 260.0 |                |

Technical drawing of a 7-segment display showing dimensions and pin connections.

**Top View Dimensions:**

- Overall width: 12.4 [0.489]
- Overall height: 17.6 [0.693]
- Segment width: 7.62 [0.300]
- Segment height: 1.4 [0.055]
- Segment angle: 10°
- Pin 10 location: 13.1 [0.516] from the right edge, 17.6 [0.693] from the bottom edge.
- Pin 1 location: 12.4 [0.489] from the left edge, 17.6 [0.693] from the bottom edge.
- Pin diameter:  $\phi 1.3 [0.051]$

**Side View Dimensions:**

- Overall height: 15.24 [0.600]
- Top segment width: 7 [0.276]
- Top segment height: 6 [0.236]
- Bottom segment width: 4 [0.158]  $\pm 0.5$

**Pin Connections:**

- Pin 10: +
- Pin 1: +
- Pin 3, 8: (COM)
- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Bottom View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Top View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Bottom View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Top View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Bottom View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Top View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Bottom View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Top View):**

- Pin 7: A
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- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Bottom View):**

- Pin 7: A
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- Pin 1: E
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- Pin 10: G
- Pin 5: DP

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- Pin 7: A
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- Pin 1: E
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- Pin 7: A
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- Pin 10: G
- Pin 5: DP

**Pin Connections (Top View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Bottom View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
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- Pin 10: G
- Pin 5: DP

**Pin Connections (Top View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Bottom View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Top View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Bottom View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Top View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Bottom View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Top View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
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- Pin 10: G
- Pin 5: DP

**Pin Connections (Bottom View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Top View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Bottom View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Top View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Bottom View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Top View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

**Pin Connections (Bottom View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G
- Pin 5: DP

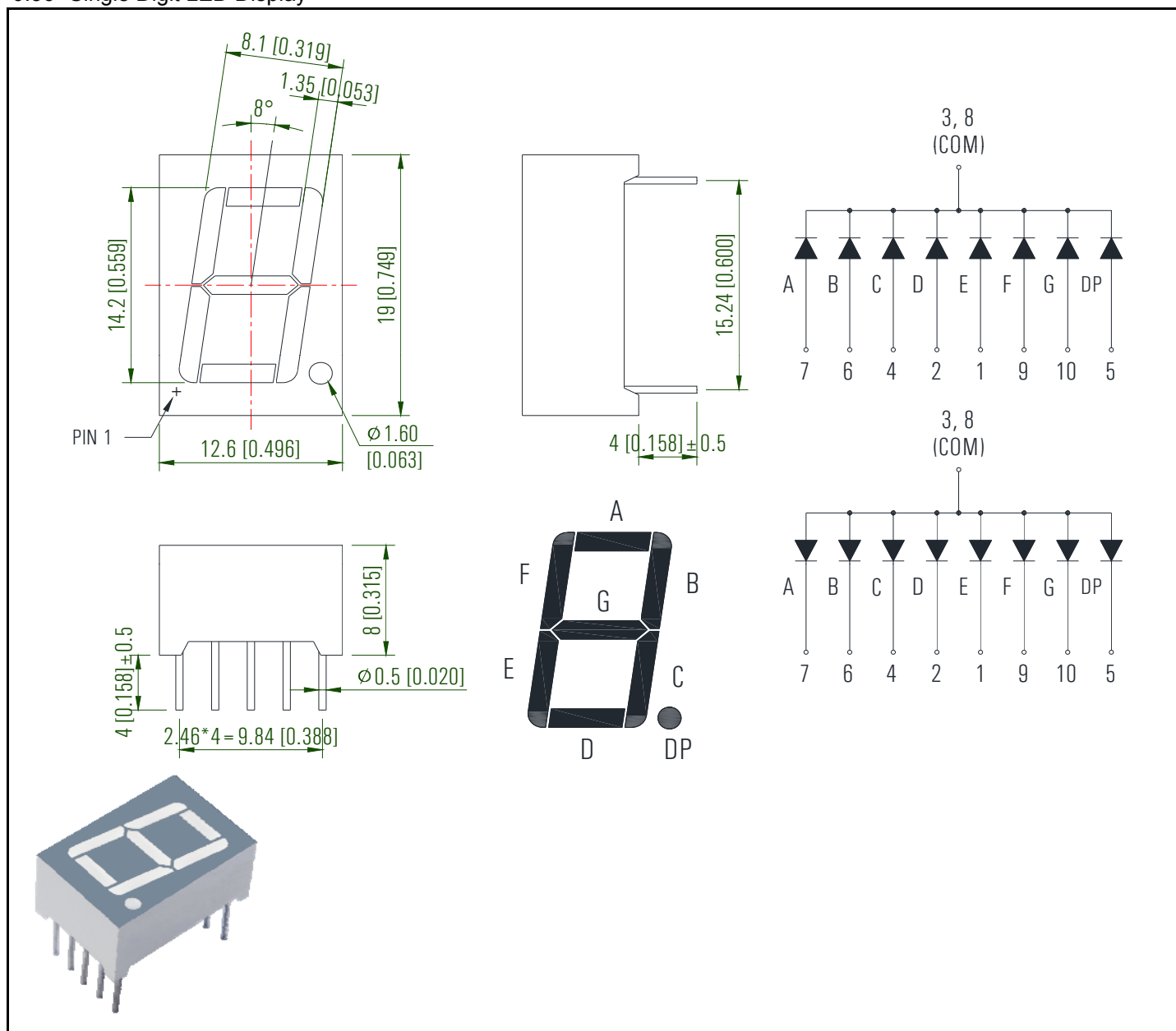
**Pin Connections (Top View):**

- Pin 7: A
- Pin 6: B
- Pin 4: C
- Pin 2: D
- Pin 1: E
- Pin 9: F
- Pin 10: G

|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW1-521CRA    | Deep Red     | 630            | Gray | 20 | 40.0  | Common Cathode |
| KW1-521CAA    | Orange       | 605            |      |    | 30.0  |                |
| KW1-521CGA    | Yellow Green | 572            |      |    | 18.0  |                |
| KW1-521CGA-G5 | Pure Green   | 525            |      |    | 220.0 |                |
| KW1-521CBA    | Blue         | 470            |      |    | 50.0  |                |
| KW1-521CWA    | White        | x=0.30, y=0.31 |      |    | 260.0 |                |
| KW1-521ARA    | Deep Red     | 630            |      |    | 40.0  | Common Anode   |
| KW1-521AAA    | Orange       | 605            |      |    | 30.0  |                |
| KW1-521AGA    | Yellow Green | 572            |      |    | 18.0  |                |
| KW1-521AGA-G5 | Pure Green   | 525            |      |    | 220.0 |                |
| KW1-521ABA    | Blue         | 470            |      |    | 50.0  |                |
| KW1-521AWA    | White        | x=0.30, y=0.31 |      |    | 260.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

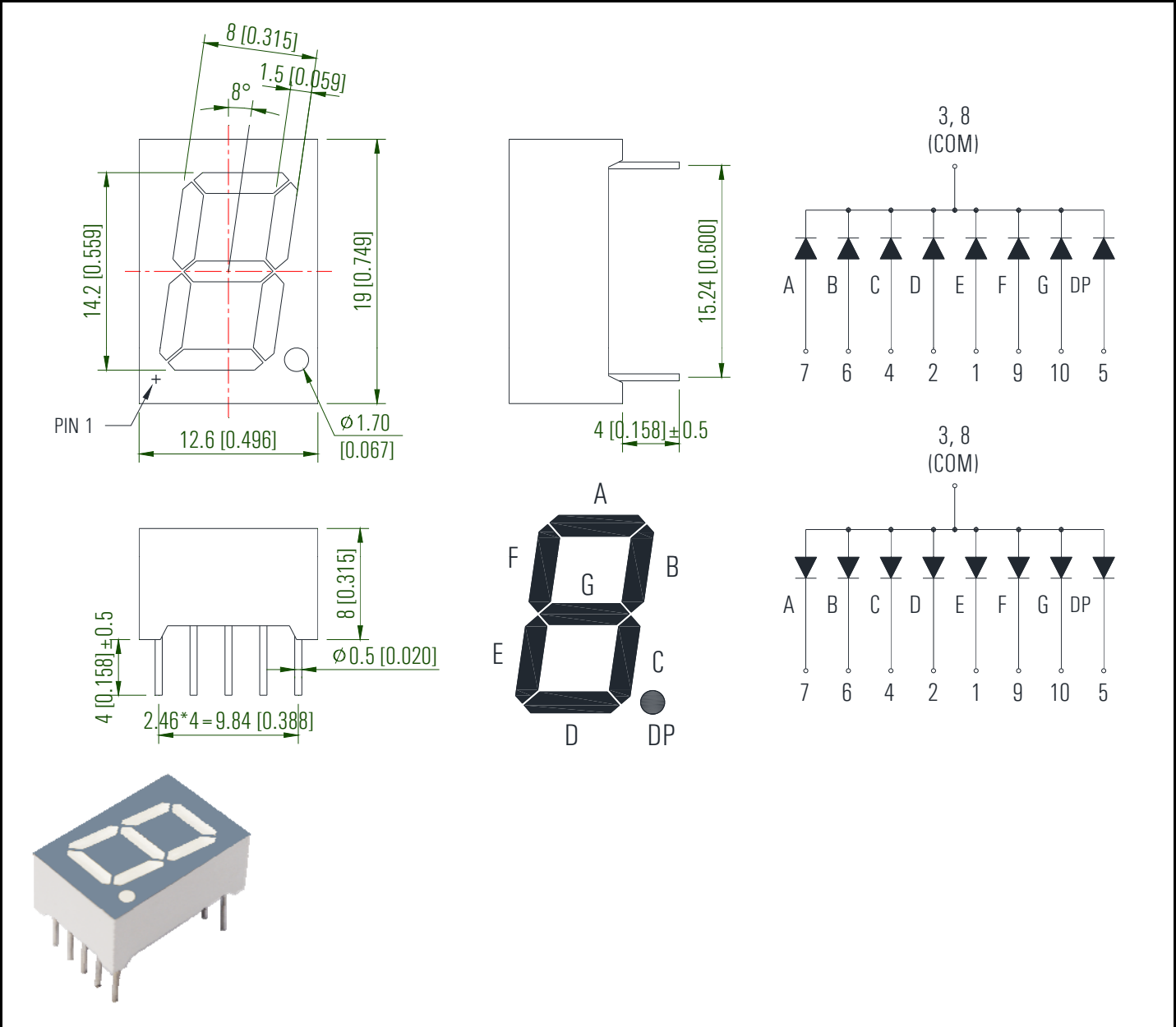
0.56" Single Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW1-561CRA    | Deep Red     | 630            | Gray | 20 | 40.0  | Common Cathode |
| KW1-561CAA    | Orange       | 605            |      |    | 30.0  |                |
| KW1-561CGA    | Yellow Green | 572            |      |    | 18.0  |                |
| KW1-561CGA-G5 | Pure Green   | 525            |      |    | 220.0 |                |
| KW1-561CBA    | Blue         | 470            |      |    | 50.0  |                |
| KW1-561CWA    | White        | x=0.30, y=0.31 |      |    | 260.0 | Common Anode   |
| KW1-561ARA    | Deep Red     | 630            |      |    | 40.0  |                |
| KW1-561AAA    | Orange       | 605            |      |    | 30.0  |                |
| KW1-561AGA    | Yellow Green | 572            |      |    | 18.0  |                |
| KW1-561AGA-G5 | Pure Green   | 525            |      |    | 220.0 |                |
| KW1-561ABA    | Blue         | 470            |      |    | 50.0  |                |
| KW1-561AWA    | White        | x=0.30, y=0.31 |      |    | 260.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

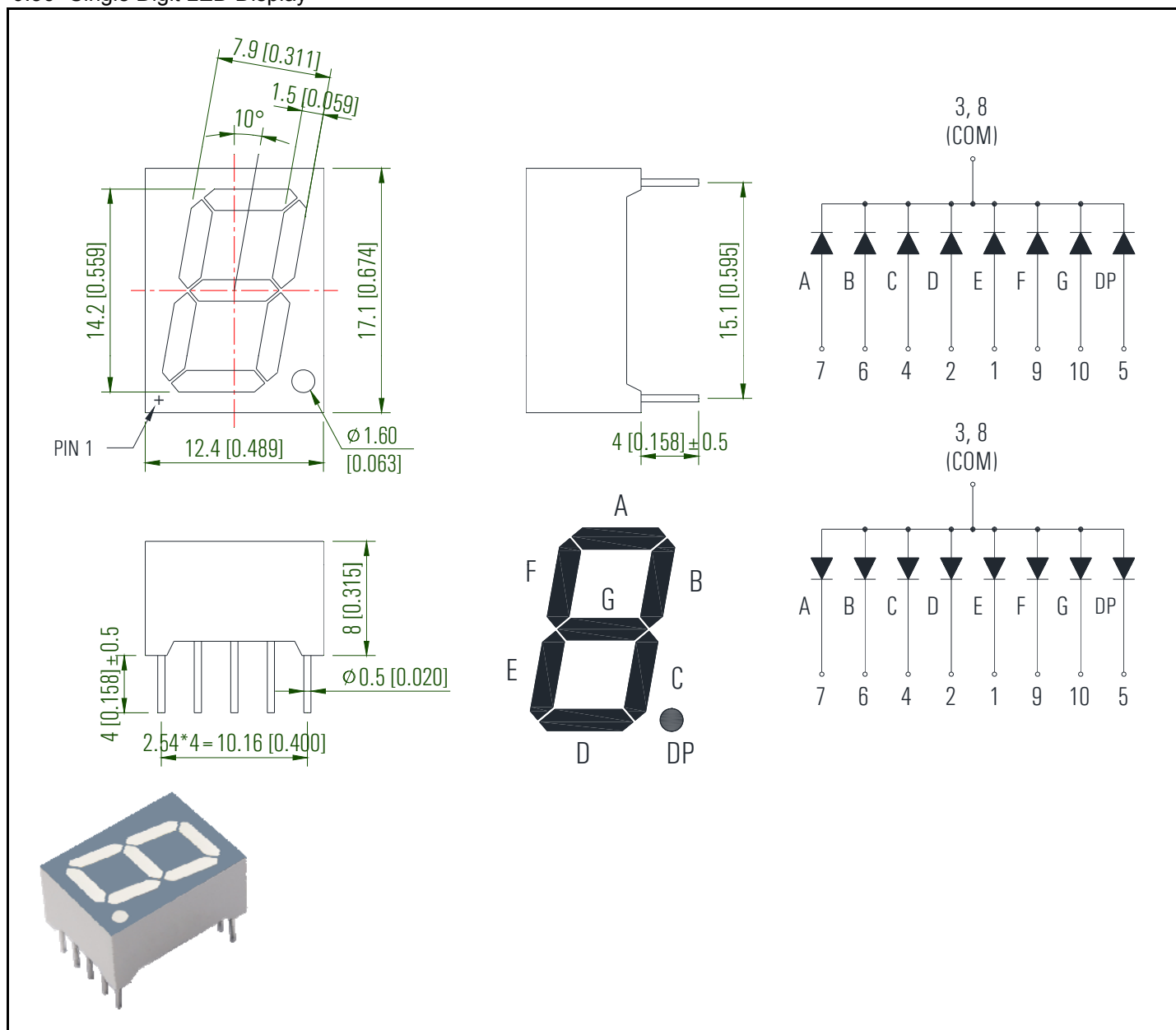
0.56" Single Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW1-562CRA    | Deep Red     | 630            | Gray | 20 | 40.0  | Common Cathode |
| KW1-562CAA    | Orange       | 605            |      |    | 30.0  |                |
| KW1-562CGA    | Yellow Green | 572            |      |    | 18.0  |                |
| KW1-562CGA-G5 | Pure Green   | 525            |      |    | 220.0 |                |
| KW1-562CBA    | Blue         | 470            |      |    | 50.0  |                |
| KW1-562CWA    | White        | x=0.30, y=0.31 |      |    | 260.0 | Common Anode   |
| KW1-562ARA    | Deep Red     | 630            |      |    | 40.0  |                |
| KW1-562AAA    | Orange       | 605            |      |    | 30.0  |                |
| KW1-562AGA    | Yellow Green | 572            |      |    | 18.0  |                |
| KW1-562AGA-G5 | Pure Green   | 525            |      |    | 220.0 |                |
| KW1-562ABA    | Blue         | 470            |      |    | 50.0  |                |
| KW1-562AWA    | White        | x=0.30, y=0.31 |      |    | 260.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

0.56" Single Digit LED Display

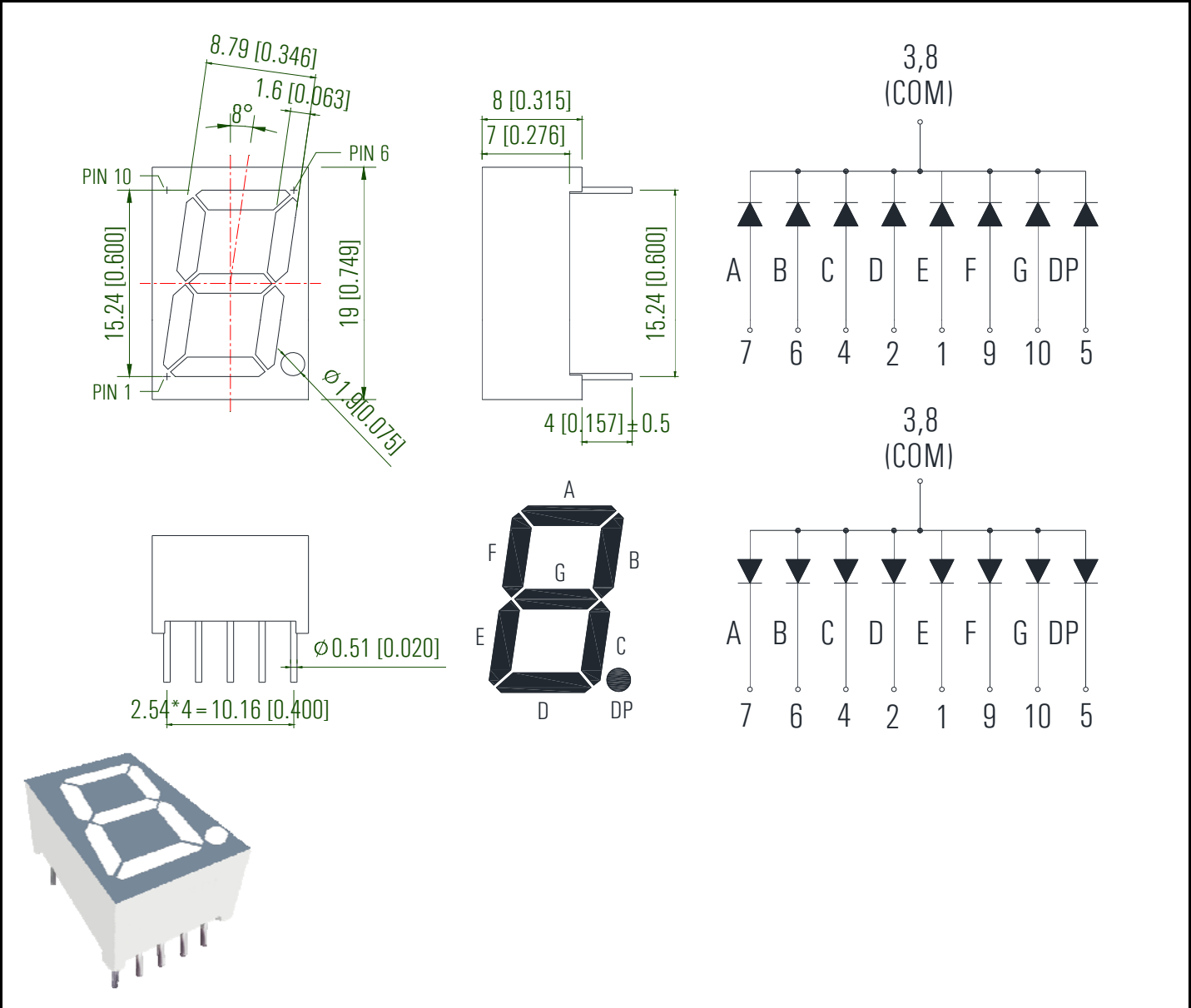


|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW1-563CRA    | Deep Red     | 630            | Gray | 20 | 40.0  | Common Cathode |
| KW1-563CAA    | Orange       | 605            |      |    | 30.0  |                |
| KW1-563CGA    | Yellow Green | 572            |      |    | 18.0  |                |
| KW1-563CGA-G5 | Pure Green   | 525            |      |    | 220.0 |                |
| KW1-563CBA    | Blue         | 470            |      |    | 50.0  |                |
| KW1-563CWA    | White        | x=0.30, y=0.31 |      |    | 260.0 | Common Anode   |
| KW1-563ARA    | Deep Red     | 630            |      |    | 40.0  |                |
| KW1-563AAA    | Orange       | 605            |      |    | 30.0  |                |
| KW1-563AGA    | Yellow Green | 572            |      |    | 18.0  |                |
| KW1-563AGA-G5 | Pure Green   | 525            |      |    | 220.0 |                |
| KW1-563ABA    | Blue         | 470            |      |    | 50.0  |                |
| KW1-563AWA    | White        | x=0.30, y=0.31 |      |    | 260.0 |                |



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

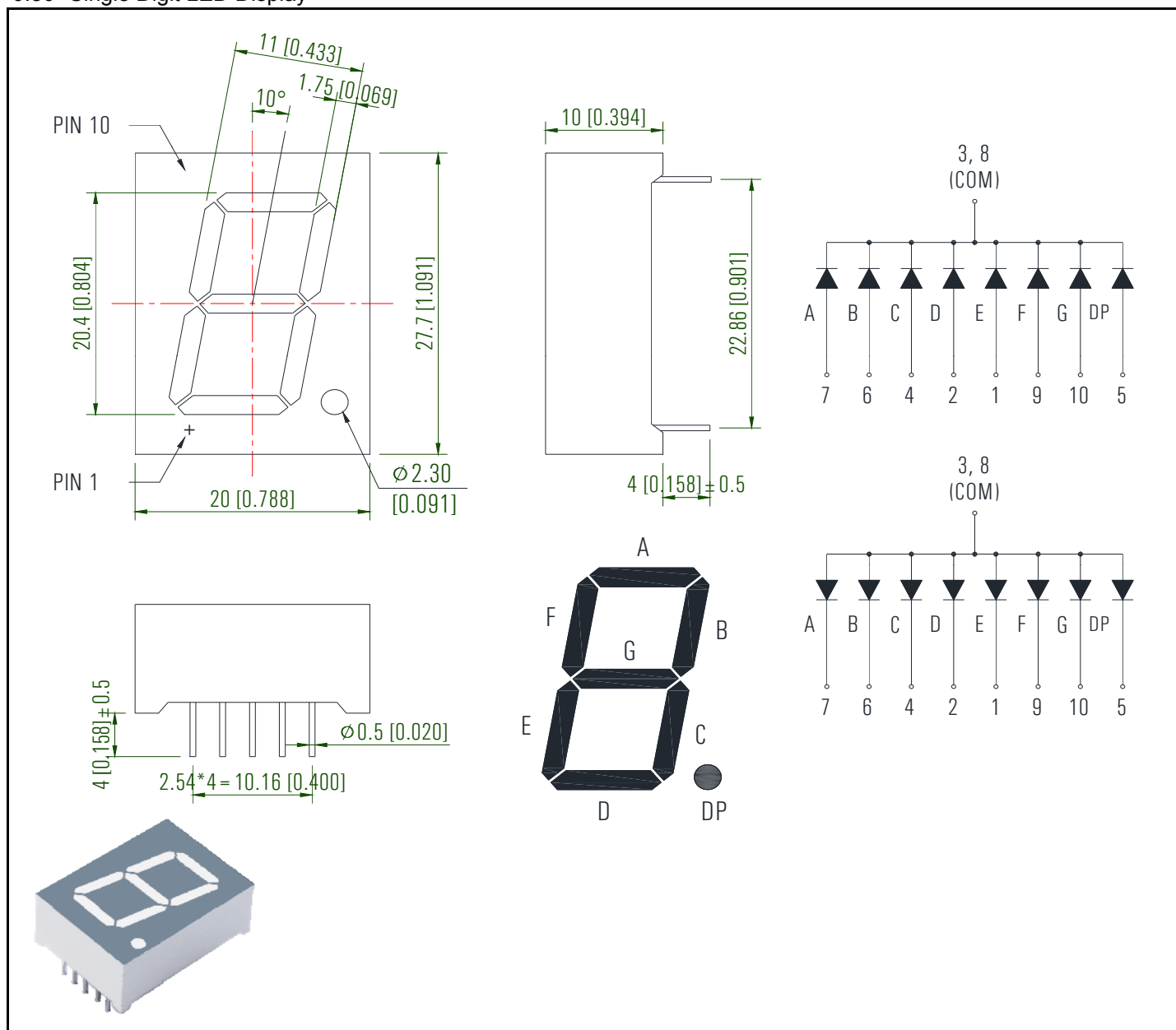
0.60" Single Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW1-603CRA    | Deep Red     | 630            | Gray | 20 | 41.0  | Common Cathode |
| KW1-603CAA    | Orange       | 605            |      |    | 31.0  |                |
| KW1-603CGA    | Yellow Green | 572            |      |    | 19.0  |                |
| KW1-603CGA-G5 | Pure Green   | 525            |      |    | 224.0 |                |
| KW1-603CBA    | Blue         | 470            |      |    | 52.0  |                |
| KW1-603CWA    | White        | x=0.30, y=0.31 |      |    | 264.0 | Common Anode   |
| KW1-603ARA    | Deep Red     | 630            |      |    | 41.0  |                |
| KW1-603AAA    | Orange       | 605            |      |    | 31.0  |                |
| KW1-603AGA    | Yellow Green | 572            |      |    | 19.0  |                |
| KW1-603AGA-G5 | Pure Green   | 525            |      |    | 224.0 |                |
| KW1-603ABA    | Blue         | 470            |      |    | 52.0  |                |
| KW1-603AWA    | White        | x=0.30, y=0.31 |      |    | 264.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

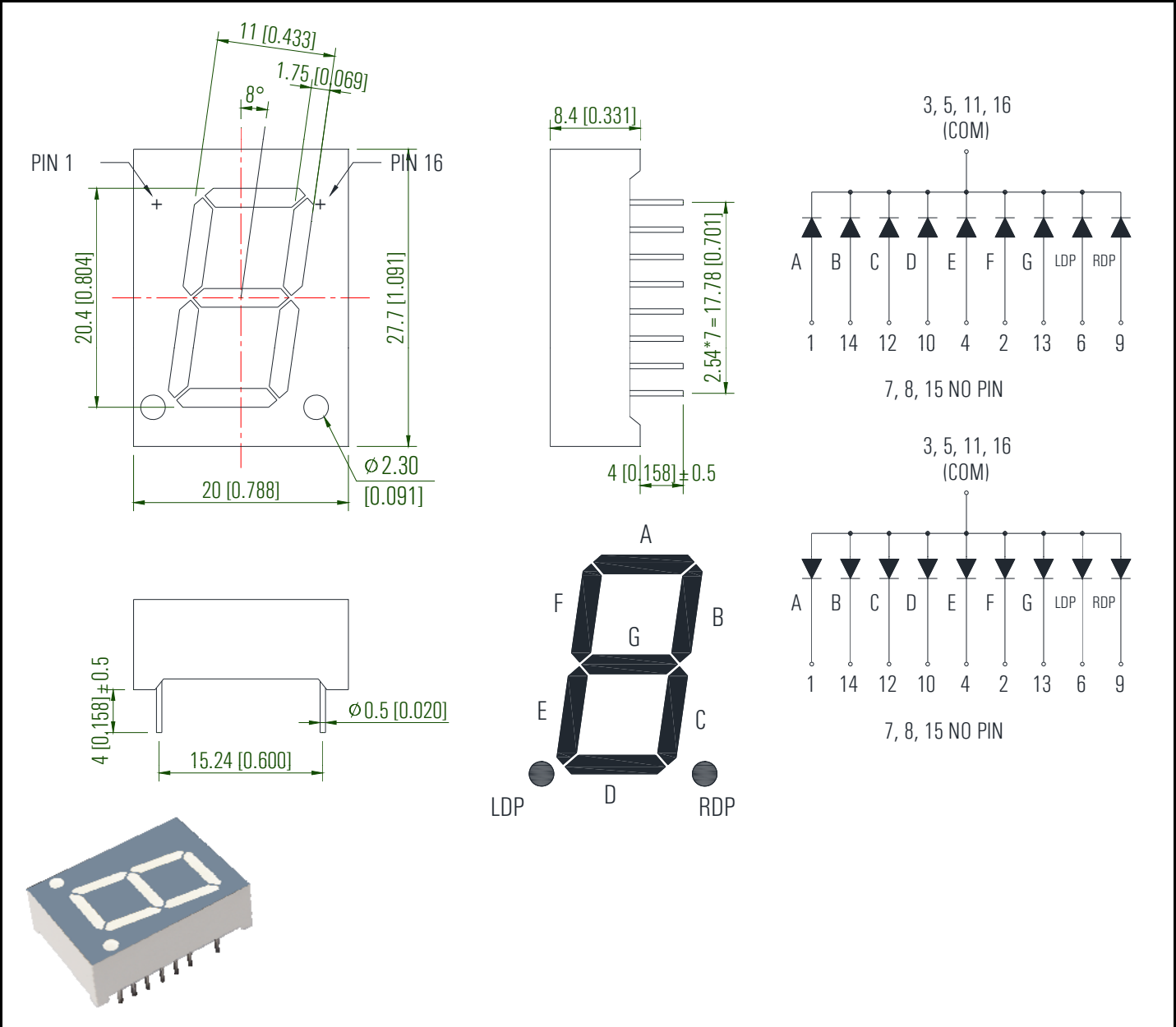
## 0.80" Single Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW1-801CRA    | Deep Red     | 630            | Gray | 20 | 42.0  | Common Cathode |
| KW1-801CAA    | Orange       | 605            |      |    | 34.0  |                |
| KW1-801CGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KW1-801CGA-G5 | Pure Green   | 525            |      |    | 240.0 |                |
| KW1-801CBA    | Blue         | 470            |      |    | 56.0  |                |
| KW1-801CWA    | White        | x=0.30, y=0.31 |      |    | 270.0 | Common Anode   |
| KW1-801ARA    | Deep Red     | 630            |      |    | 42.0  |                |
| KW1-801AAA    | Orange       | 605            |      |    | 34.0  |                |
| KW1-801AGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KW1-801AGA-G5 | Pure Green   | 525            |      |    | 240.0 |                |
| KW1-801ABA    | Blue         | 470            |      |    | 56.0  |                |
| KW1-801AWA    | White        | x=0.30, y=0.31 |      |    | 270.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

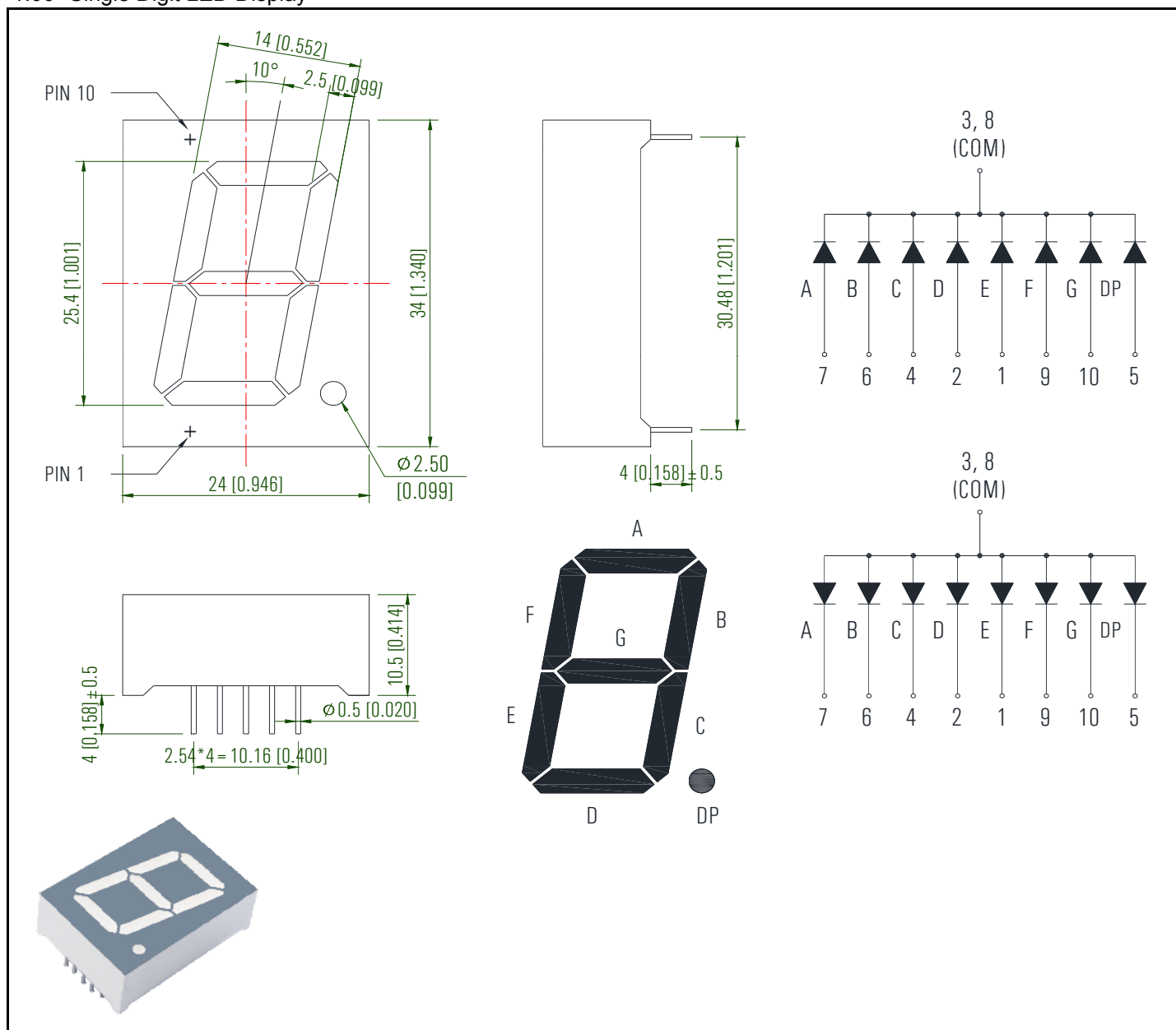
0.80" Single Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW1-802CRA    | Deep Red     | 630            | Gray | 20 | 42.0  | Common Cathode |
| KW1-802CAA    | Orange       | 605            |      |    | 34.0  |                |
| KW1-802CGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KW1-802CGA-G5 | Pure Green   | 525            |      |    | 240.0 |                |
| KW1-802CBA    | Blue         | 470            |      |    | 56.0  |                |
| KW1-802CWA    | White        | x=0.30, y=0.31 |      |    | 270.0 | Common Anode   |
| KW1-802ARA    | Deep Red     | 630            |      |    | 42.0  |                |
| KW1-802AAA    | Orange       | 605            |      |    | 34.0  |                |
| KW1-802AGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KW1-802AGA-G5 | Pure Green   | 525            |      |    | 240.0 |                |
| KW1-802ABA    | Blue         | 470            |      |    | 56.0  |                |
| KW1-802AWA    | White        | x=0.30, y=0.31 |      |    | 270.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

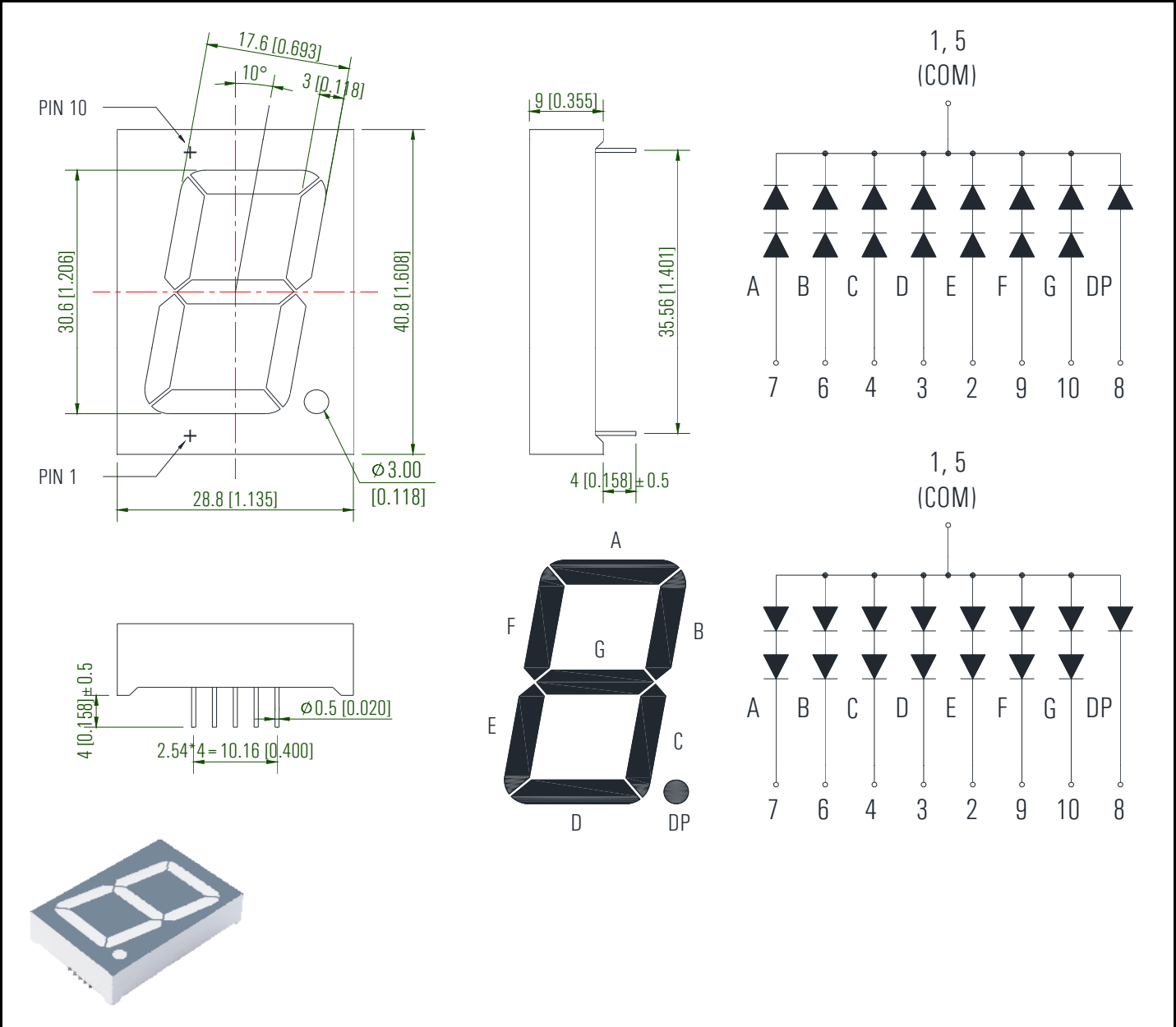
## 1.00" Single Digit LED Display



|                |              |                |      |    |       |                |
|----------------|--------------|----------------|------|----|-------|----------------|
| KW1-1002CRA    | Deep Red     | 630            | Gray | 20 | 44.0  | Common Cathode |
| KW1-1002CAA    | Orange       | 605            |      |    | 58.0  |                |
| KW1-1002CGA    | Yellow Green | 572            |      |    | 26.0  |                |
| KW1-1002CGA-G5 | Pure Green   | 525            |      |    | 260.0 |                |
| KW1-1002CBA    | Blue         | 470            |      |    | 76.0  |                |
| KW1-1002CWA    | White        | x=0.30, y=0.31 |      |    | 290.0 | Common Anode   |
| KW1-1002ARA    | Deep Red     | 630            |      |    | 44.0  |                |
| KW1-1002AAA    | Orange       | 605            |      |    | 58.0  |                |
| KW1-1002AGA    | Yellow Green | 572            |      |    | 26.0  |                |
| KW1-1002AGA-G5 | Pure Green   | 525            |      |    | 260.0 |                |
| KW1-1002ABA    | Blue         | 470            |      |    | 76.0  |                |
| KW1-1002AWA    | White        | x=0.30, y=0.31 |      |    | 290.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

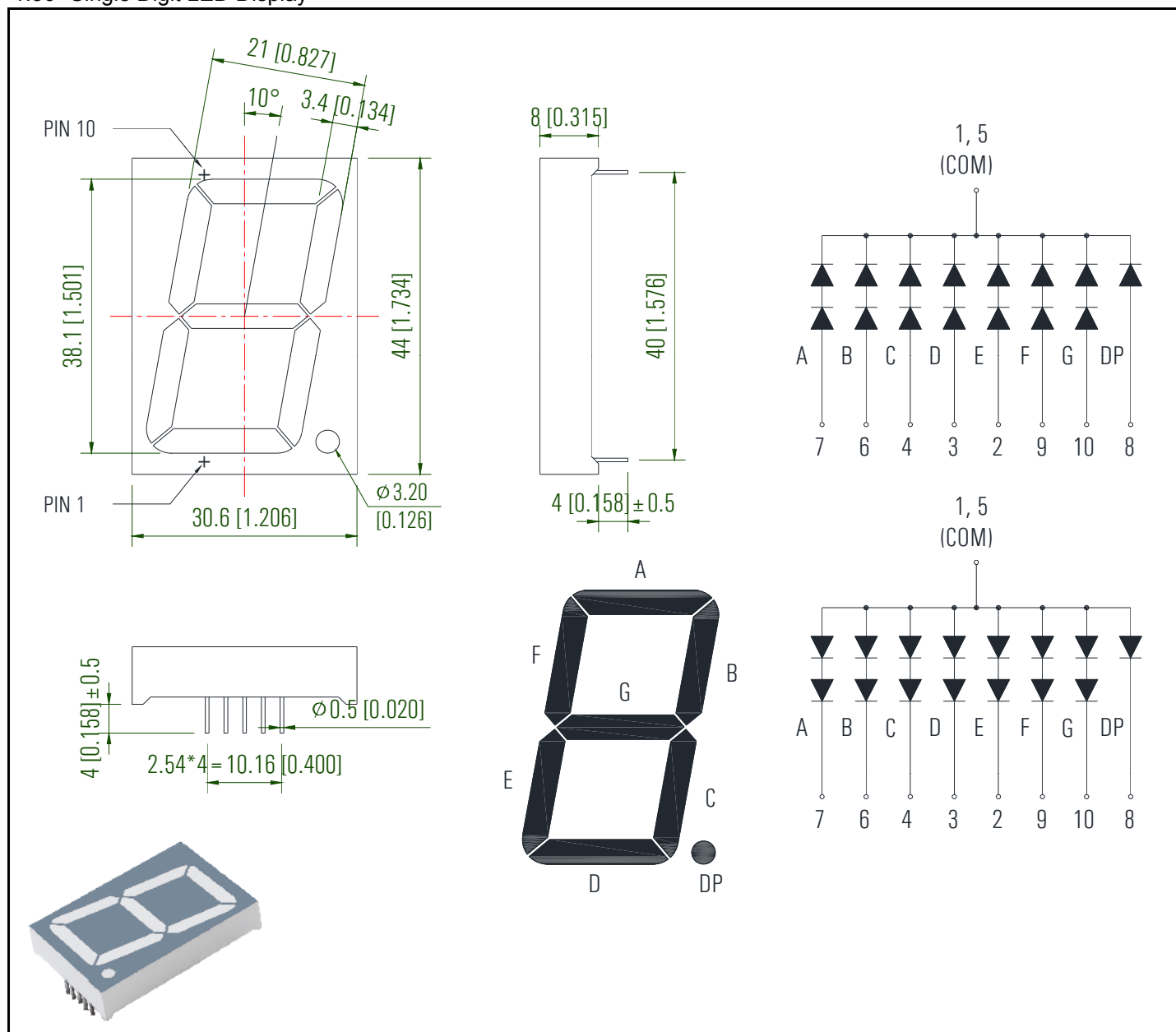
1.20" Single Digit LED Display



|                |              |                |      |    |       |                |
|----------------|--------------|----------------|------|----|-------|----------------|
| KW1-1201CRA    | Deep Red     | 630            | Gray | 20 | 40.0  | Common Cathode |
| KW1-1201CAA    | Orange       | 605            |      |    | 48.0  |                |
| KW1-1201CGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KW1-1201CGA-G5 | Pure Green   | 525            |      |    | 248.0 |                |
| KW1-1201CBA    | Blue         | 470            |      |    | 56.0  |                |
| KW1-1201CWA    | White        | x=0.30, y=0.31 |      |    | 270.0 | Common Anode   |
| KW1-1201ARA    | Deep Red     | 630            |      |    | 40.0  |                |
| KW1-1201AAA    | Orange       | 605            |      |    | 48.0  |                |
| KW1-1201AGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KW1-1201AGA-G5 | Pure Green   | 525            |      |    | 248.0 |                |
| KW1-1201ABA    | Blue         | 470            |      |    | 56.0  |                |
| KW1-1201AWA    | White        | x=0.30, y=0.31 |      |    | 270.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | $I_F = \text{mA}$              | Typ. |                |

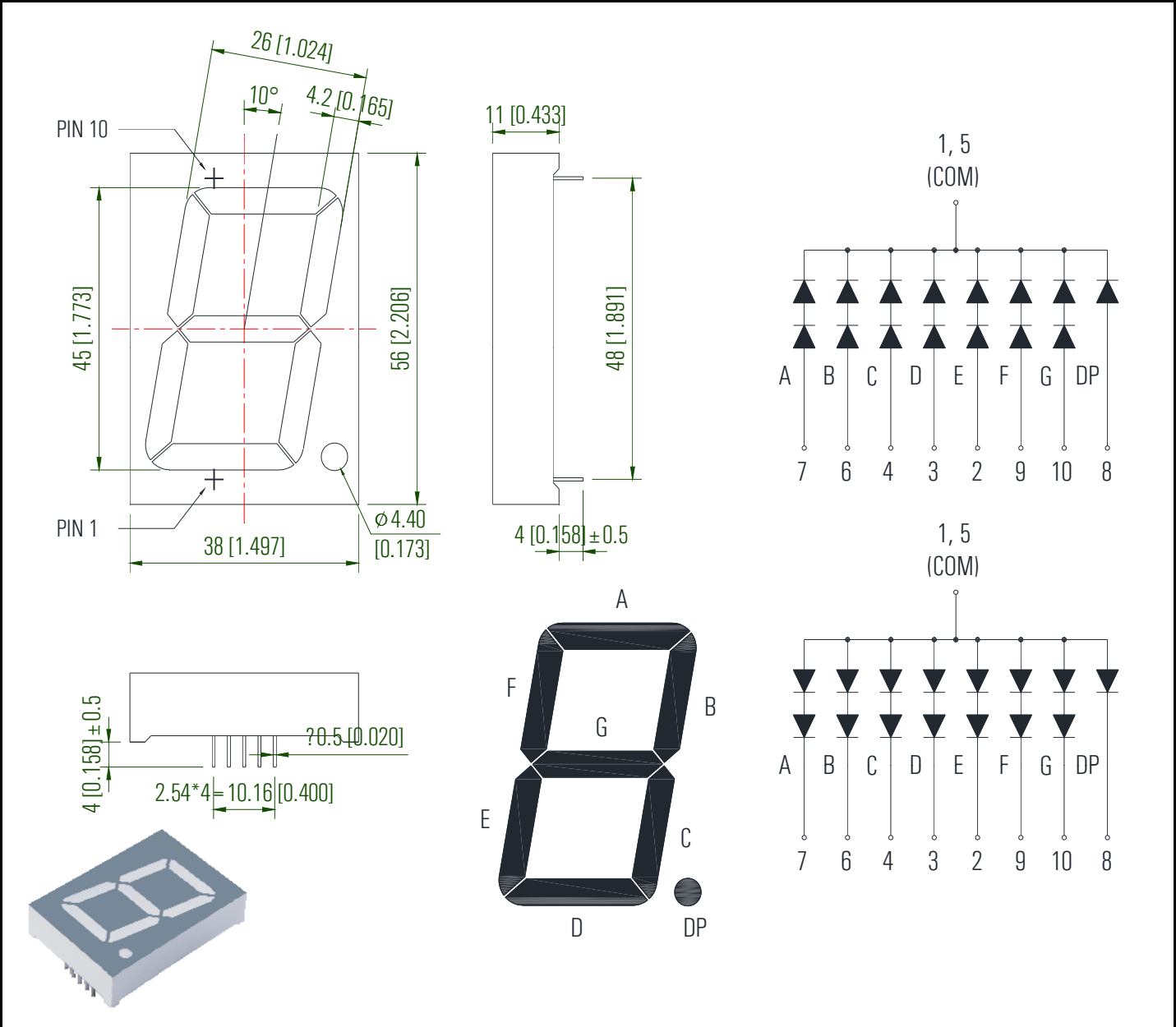
## 1.50" Single Digit LED Display



|                |              |                |      |    |       |                |
|----------------|--------------|----------------|------|----|-------|----------------|
| KW1-1501CRA    | Deep Red     | 630            | Gray | 20 | 40.0  | Common Cathode |
| KW1-1501CAA    | Orange       | 605            |      |    | 48.0  |                |
| KW1-1501CGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KW1-1501CGA-G5 | Pure Green   | 525            |      |    | 248.0 |                |
| KW1-1501CBA    | Blue         | 470            |      |    | 56.0  |                |
| KW1-1501CWA    | White        | x=0.30, y=0.31 |      |    | 270.0 | Common Anode   |
| KW1-1501ARA    | Deep Red     | 630            |      |    | 40.0  |                |
| KW1-1501AAA    | Orange       | 605            |      |    | 48.0  |                |
| KW1-1501AGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KW1-1501AGA-G5 | Pure Green   | 525            |      |    | 248.0 |                |
| KW1-1501ABA    | Blue         | 470            |      |    | 56.0  |                |
| KW1-1501AWA    | White        | x=0.30, y=0.31 |      |    | 270.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

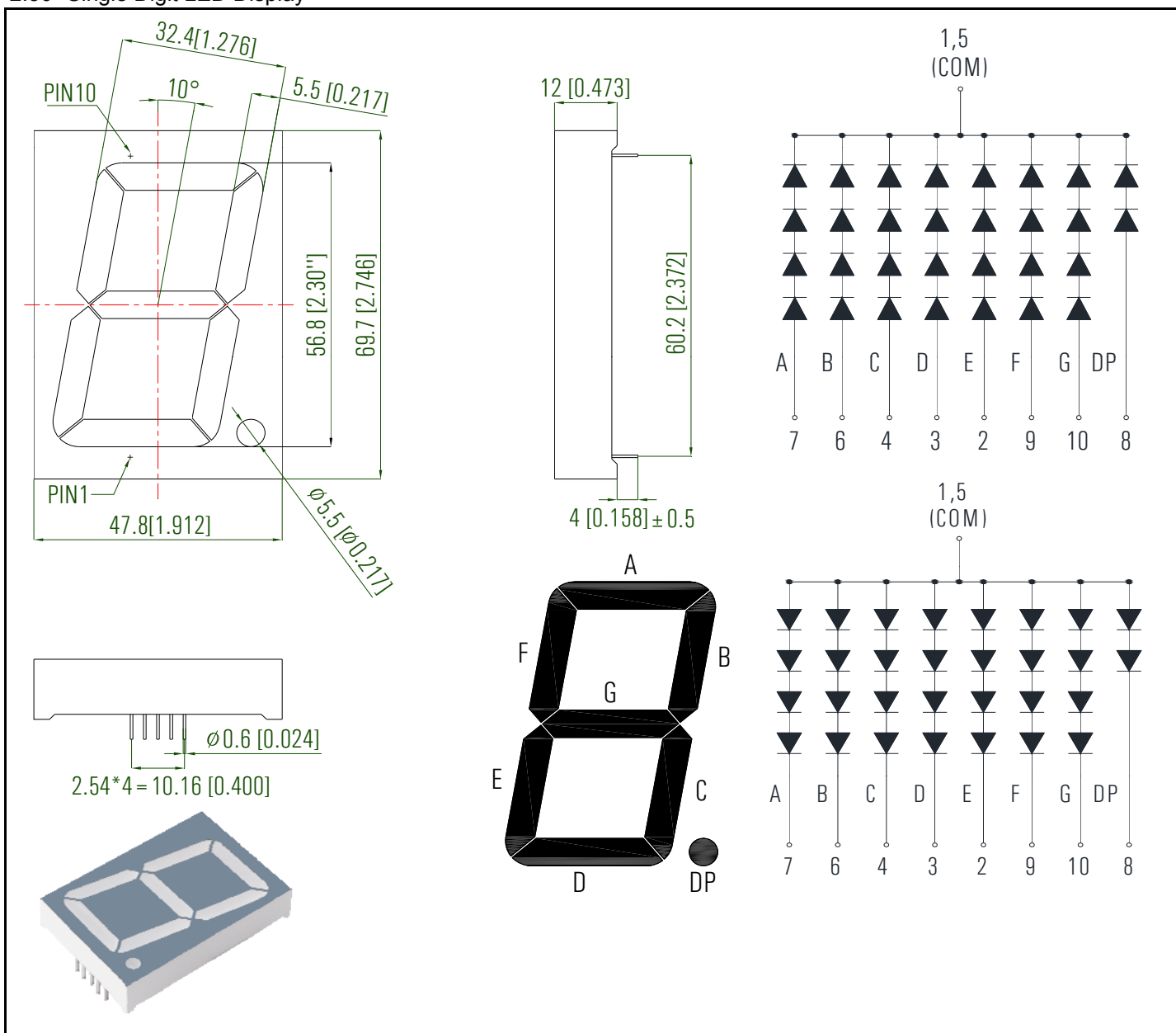
1.80" Single Digit LED Display



|                |              |                |      |    |       |                |
|----------------|--------------|----------------|------|----|-------|----------------|
| KW1-1808CRA    | Deep Red     | 630            | Gray | 20 | 42.0  | Common Cathode |
| KW1-1808CAA    | Orange       | 605            |      |    | 52.0  |                |
| KW1-1808CGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW1-1808CGA-G5 | Pure Green   | 525            |      |    | 250.0 |                |
| KW1-1808CBA    | Blue         | 470            |      |    | 70.0  |                |
| KW1-1808CWA    | White        | x=0.30, y=0.31 |      |    | 280.0 | Common Anode   |
| KW1-1808ARA    | Deep Red     | 630            |      |    | 42.0  |                |
| KW1-1808AAA    | Orange       | 605            |      |    | 52.0  |                |
| KW1-1808AGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW1-1808AGA-G5 | Pure Green   | 525            |      |    | 250.0 |                |
| KW1-1808ABA    | Blue         | 470            |      |    | 70.0  |                |
| KW1-1808AWA    | White        | x=0.30, y=0.31 |      |    | 280.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

## 2.30" Single Digit LED Display

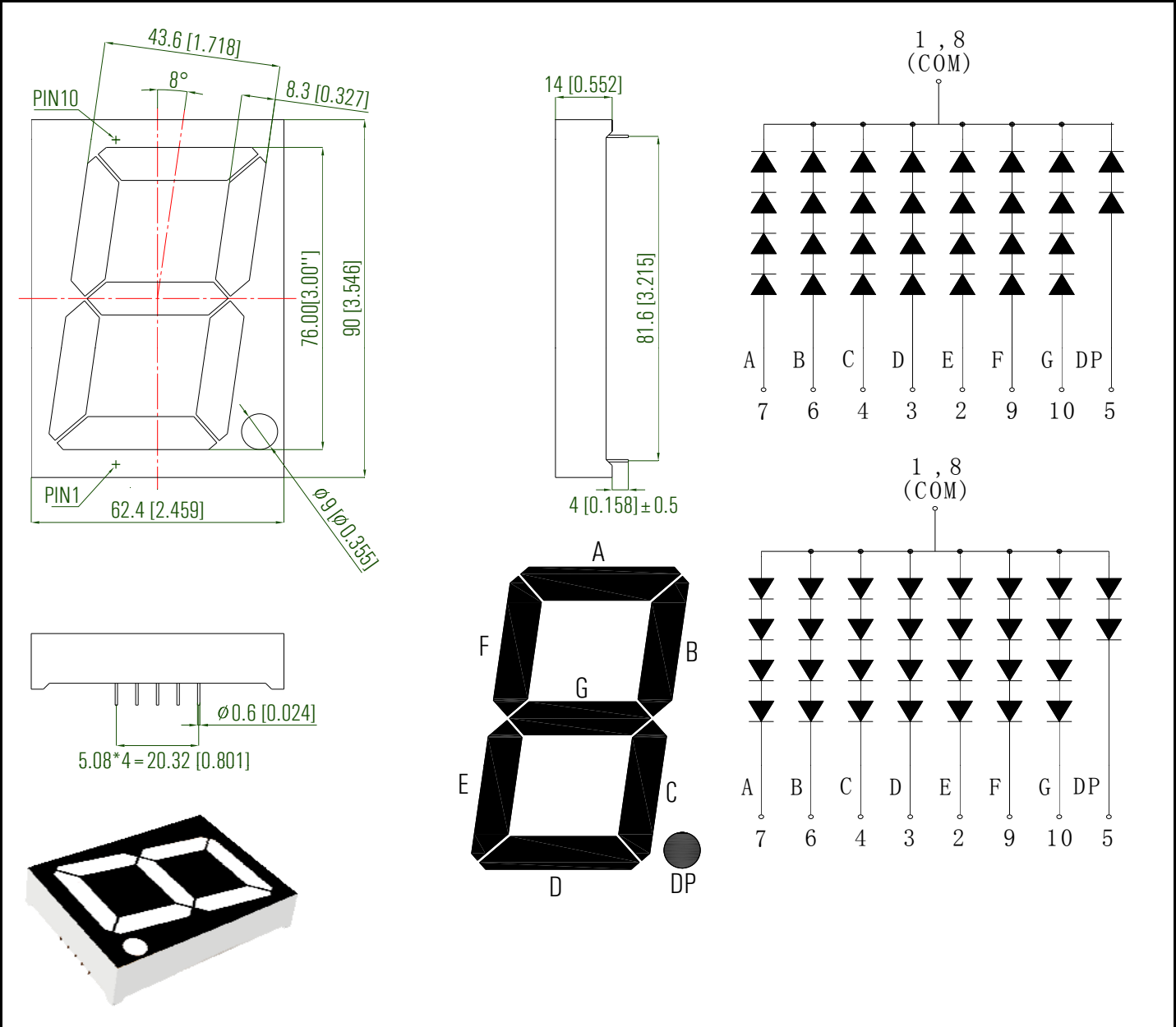


|                |              |                |      |    |       |                |
|----------------|--------------|----------------|------|----|-------|----------------|
| KW1-2301CRA    | Deep Red     | 630            | Gray | 20 | 60.0  | Common Cathode |
| KW1-2301CAA    | Orange       | 605            |      |    | 58.0  |                |
| KW1-2301CGA    | Yellow Green | 572            |      |    | 26.0  |                |
| KW1-2301CGA-G5 | Pure Green   | 525            |      |    | 260.0 |                |
| KW1-2301CBA    | Blue         | 470            |      |    | 76.0  |                |
| KW1-2301CWA    | White        | x=0.30, y=0.31 |      |    | 290.0 | Common Anode   |
| KW1-2301ARA    | Deep Red     | 630            |      |    | 60.0  |                |
| KW1-2301AAA    | Orange       | 605            |      |    | 58.0  |                |
| KW1-2301AGA    | Yellow Green | 572            |      |    | 26.0  |                |
| KW1-2301AGA-G5 | Pure Green   | 525            |      |    | 260.0 |                |
| KW1-2301ABA    | Blue         | 470            |      |    | 76.0  |                |
| KW1-2301AWA    | White        | x=0.30, y=0.31 |      |    | 290.0 |                |



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

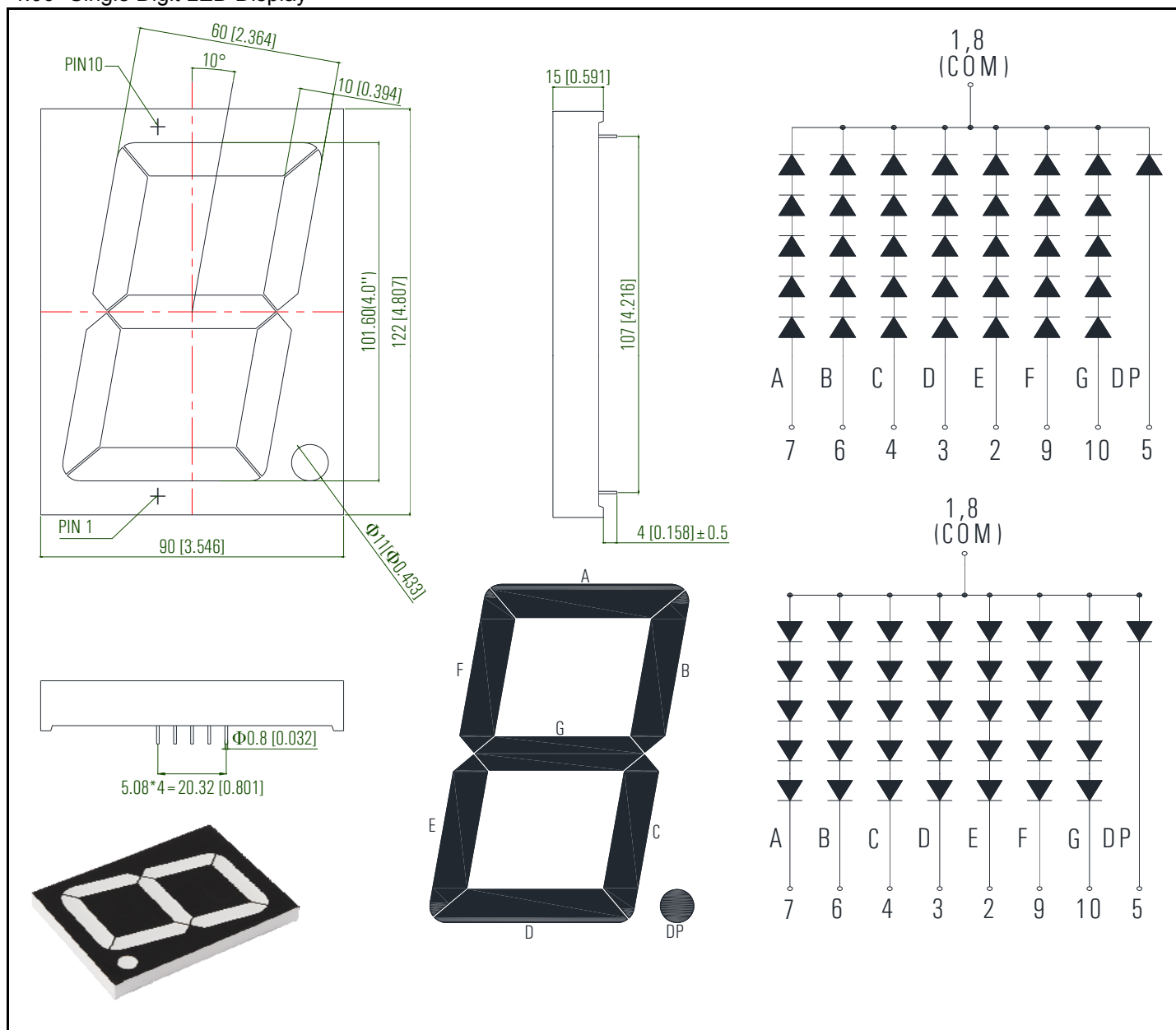
3.00" Single Digit LED Display



|                |              |                |       |    |       |                |
|----------------|--------------|----------------|-------|----|-------|----------------|
| KW1-3003CRB    | Deep Red     | 630            | Black | 20 | 64.0  | Common Cathode |
| KW1-3003CAB    | Orange       | 605            |       |    | 60.0  |                |
| KW1-3003CGB    | Yellow Green | 572            |       |    | 28.0  |                |
| KW1-3003CGB-G5 | Pure Green   | 525            |       |    | 272.0 |                |
| KW1-3003CBB    | Blue         | 470            |       |    | 80.0  |                |
| KW1-3003CWB    | White        | x=0.30, y=0.31 |       |    | 296.0 | Common Anode   |
| KW1-3003ARB    | Deep Red     | 630            |       |    | 64.0  |                |
| KW1-3003AAB    | Orange       | 605            |       |    | 60.0  |                |
| KW1-3003AGB    | Yellow Green | 572            |       |    | 28.0  |                |
| KW1-3003AGB-G5 | Pure Green   | 525            |       |    | 272.0 |                |
| KW1-3003ABB    | Blue         | 470            |       |    | 80.0  |                |
| KW1-3003AWB    | White        | x=0.30, y=0.31 |       |    | 296.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

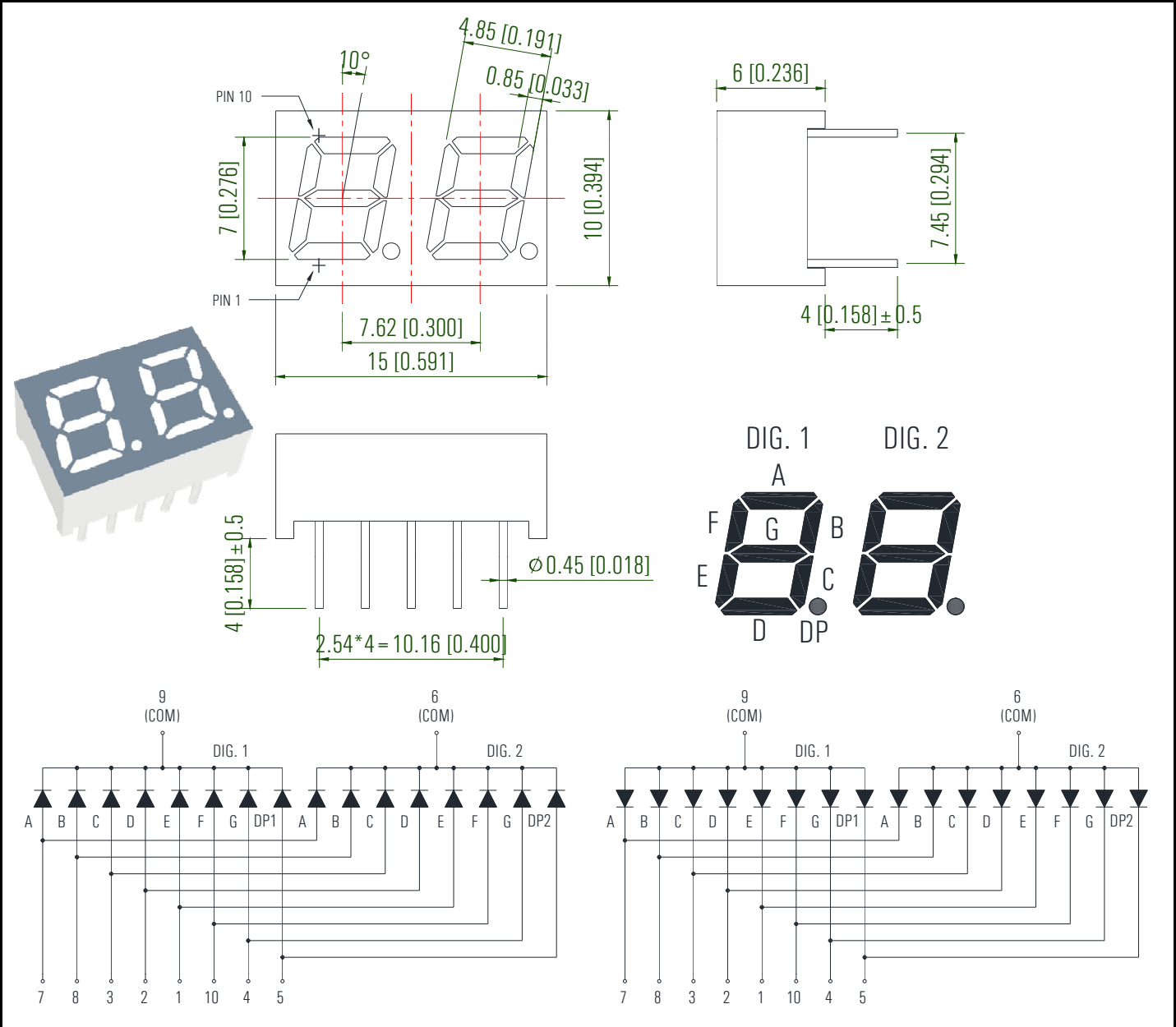
## 4.00" Single Digit LED Display



|                |              |                |       |    |       |                |
|----------------|--------------|----------------|-------|----|-------|----------------|
| KW1-4001CRB    | Deep Red     | 630            | Black | 20 | 62.0  | Common Cathode |
| KW1-4001CAB    | Orange       | 605            |       |    | 60.0  |                |
| KW1-4001CGB    | Yellow Green | 572            |       |    | 28.0  |                |
| KW1-4001CGB-G5 | Pure Green   | 525            |       |    | 266.0 |                |
| KW1-4001CBB    | Blue         | 470            |       |    | 80.0  |                |
| KW1-4001CWB    | White        | x=0.30, y=0.31 |       |    | 300.0 | Common Anode   |
| KW1-4001ARB    | Deep Red     | 630            |       |    | 62.0  |                |
| KW1-4001AAB    | Orange       | 605            |       |    | 60.0  |                |
| KW1-4001AGB    | Yellow Green | 572            |       |    | 28.0  |                |
| KW1-4001AGB-G5 | Pure Green   | 525            |       |    | 266.0 |                |
| KW1-4001ABB    | Blue         | 470            |       |    | 80.0  |                |
| KW1-4001AWB    | White        | x=0.30, y=0.31 |       |    | 300.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

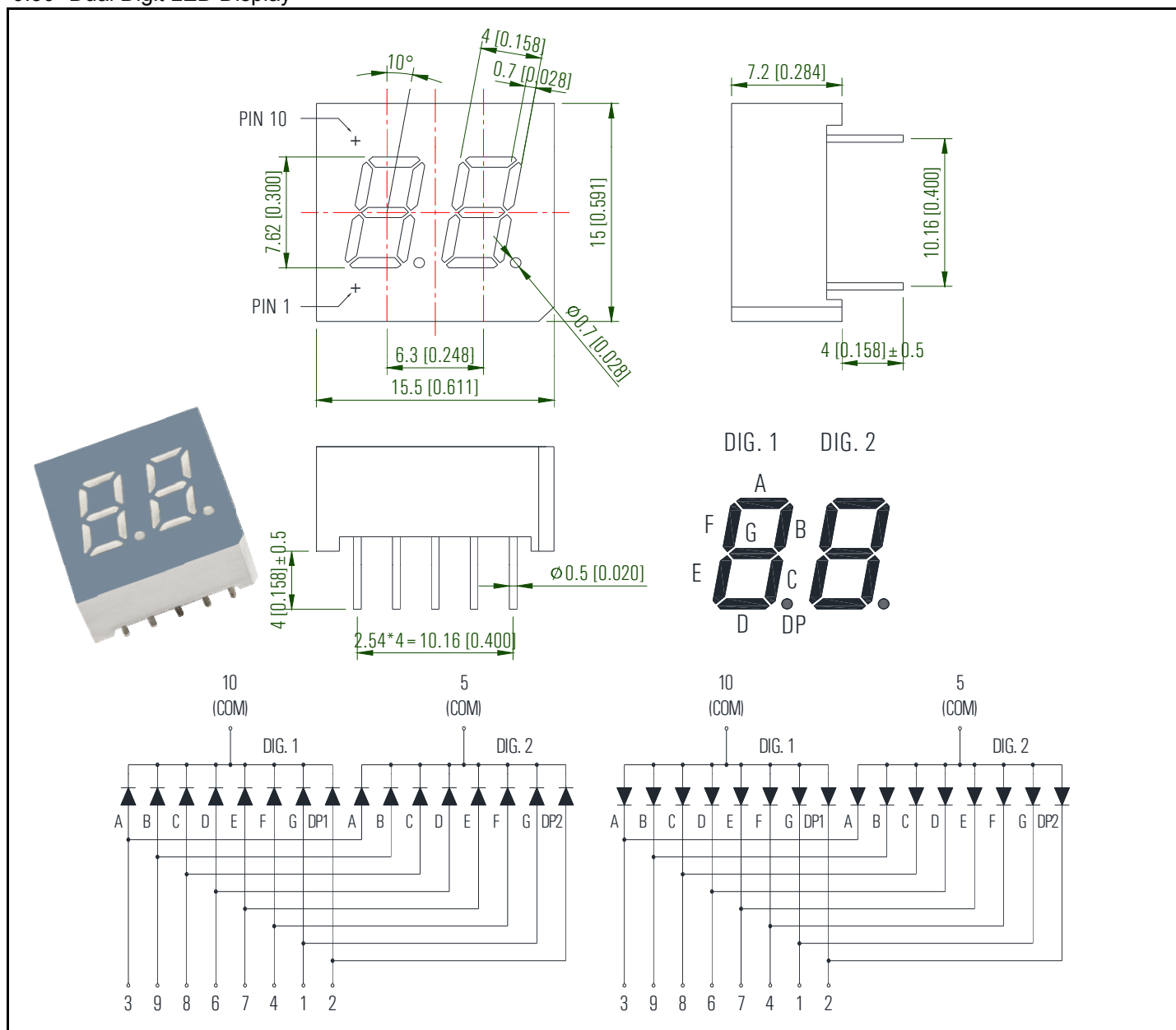
0.28" Dual Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW2-281CRA    | Deep Red     | 630            | Gray | 20 | 22.0  | Common Cathode |
| KW2-281CAA    | Orange       | 605            |      |    | 30.0  |                |
| KW2-281CGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KW2-281CGA-G5 | Pure Green   | 525            |      |    | 80.0  |                |
| KW2-281CBA    | Blue         | 470            |      |    | 44.0  |                |
| KW2-281CWA-Y  | White        | x=0.30, y=0.31 |      |    | 130.0 | Common Anode   |
| KW2-281ARA    | Deep Red     | 630            |      |    | 22.0  |                |
| KW2-281AAA    | Orange       | 605            |      |    | 30.0  |                |
| KW2-281AGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KW2-281AGA-G5 | Pure Green   | 525            |      |    | 80.0  |                |
| KW2-281ABA    | Blue         | 470            |      |    | 44.0  |                |
| KW2-281AWA-Y  | White        | x=0.30, y=0.31 |      |    | 130.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

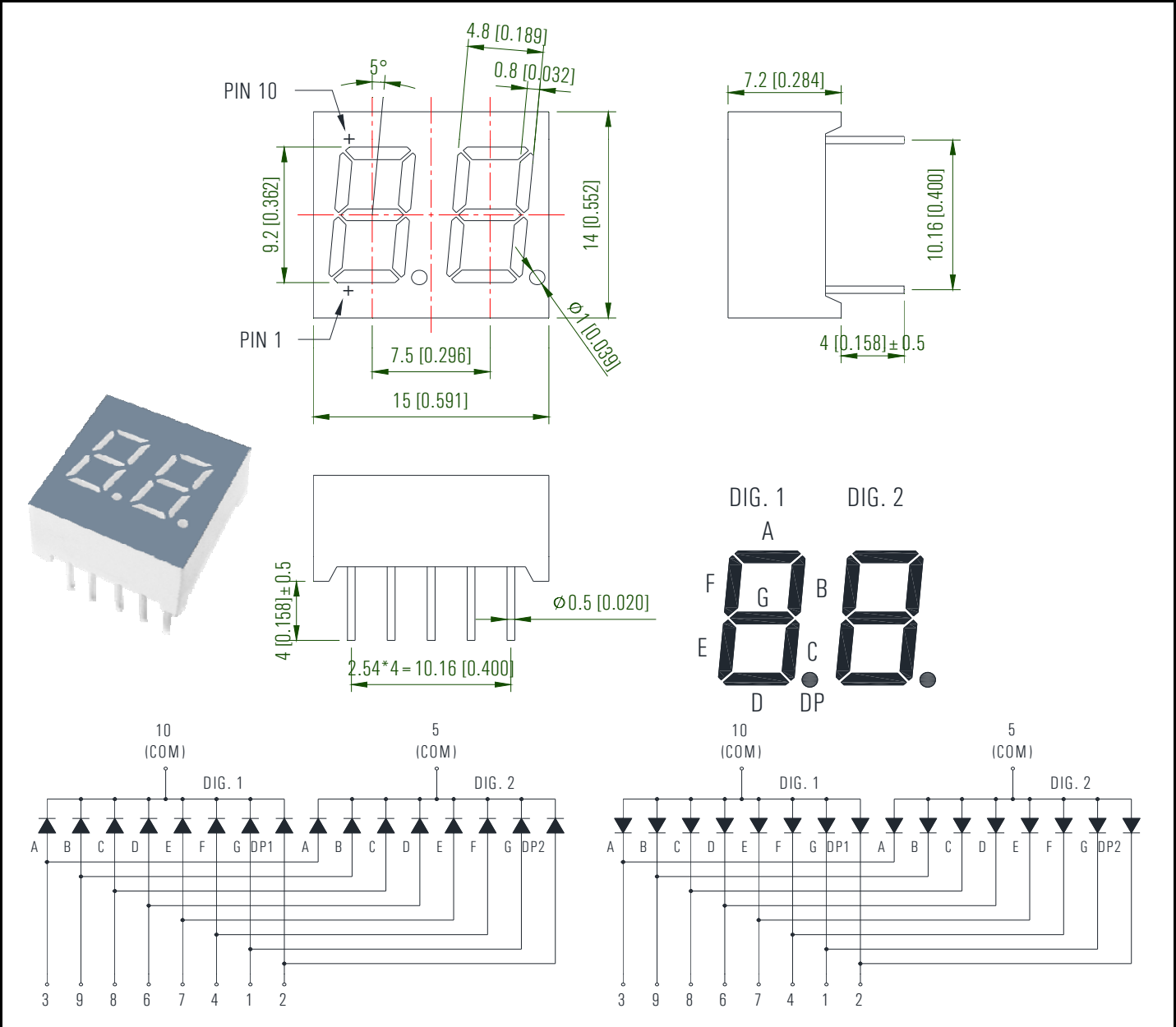
### 0.30" Dual Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW2-301CRA    | Deep Red     | 630            | Gray | 20 | 24.0  | Common Cathode |
| KW2-301CAA    | Orange       | 605            |      |    | 32.0  |                |
| KW2-301CGA    | Yellow Green | 572            |      |    | 22.0  |                |
| KW2-301CGA-G5 | Pure Green   | 525            |      |    | 84.0  |                |
| KW2-301CBA    | Blue         | 470            |      |    | 46.0  |                |
| KW2-301CWA-Y  | White        | x=0.30, y=0.31 |      |    | 136.0 | Common Anode   |
| KW2-301ARA    | Deep Red     | 630            |      |    | 24.0  |                |
| KW2-301AAA    | Orange       | 605            |      |    | 32.0  |                |
| KW2-301AGA    | Yellow Green | 572            |      |    | 22.0  |                |
| KW2-301AGA-G5 | Pure Green   | 525            |      |    | 84.0  |                |
| KW2-301ABA    | Blue         | 470            |      |    | 46.0  |                |
| KW2-301AWA-Y  | White        | x=0.30, y=0.31 |      |    | 136.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

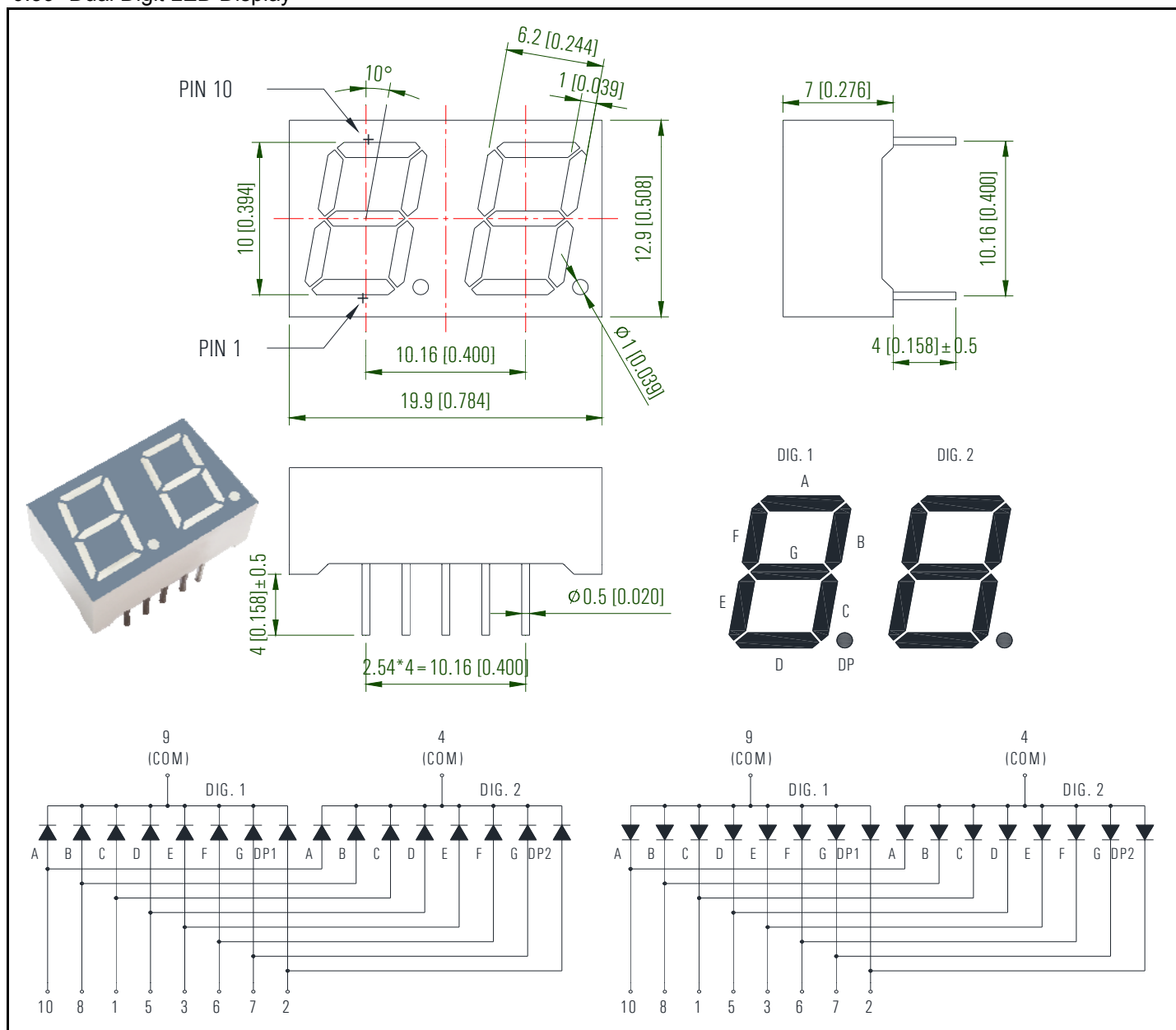
0.36" Dual Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW2-361CRA    | Deep Red     | 630            | Gray | 20 | 25.0  | Common Cathode |
| KW2-361CAA    | Orange       | 605            |      |    | 32.0  |                |
| KW2-361CGA    | Yellow Green | 572            |      |    | 23.0  |                |
| KW2-361CGA-G5 | Pure Green   | 525            |      |    | 86.0  |                |
| KW2-361CBA    | Blue         | 470            |      |    | 46.0  |                |
| KW2-361CWA-Y  | White        | x=0.30, y=0.31 |      |    | 138.0 | Common Anode   |
| KW2-361ARA    | Deep Red     | 630            |      |    | 25.0  |                |
| KW2-361AAA    | Orange       | 605            |      |    | 32.0  |                |
| KW2-361AGA    | Yellow Green | 572            |      |    | 23.0  |                |
| KW2-361AGA-G5 | Pure Green   | 525            |      |    | 86.0  |                |
| KW2-361ABA    | Blue         | 470            |      |    | 46.0  |                |
| KW2-361AWA-Y  | White        | x=0.30, y=0.31 |      |    | 138.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

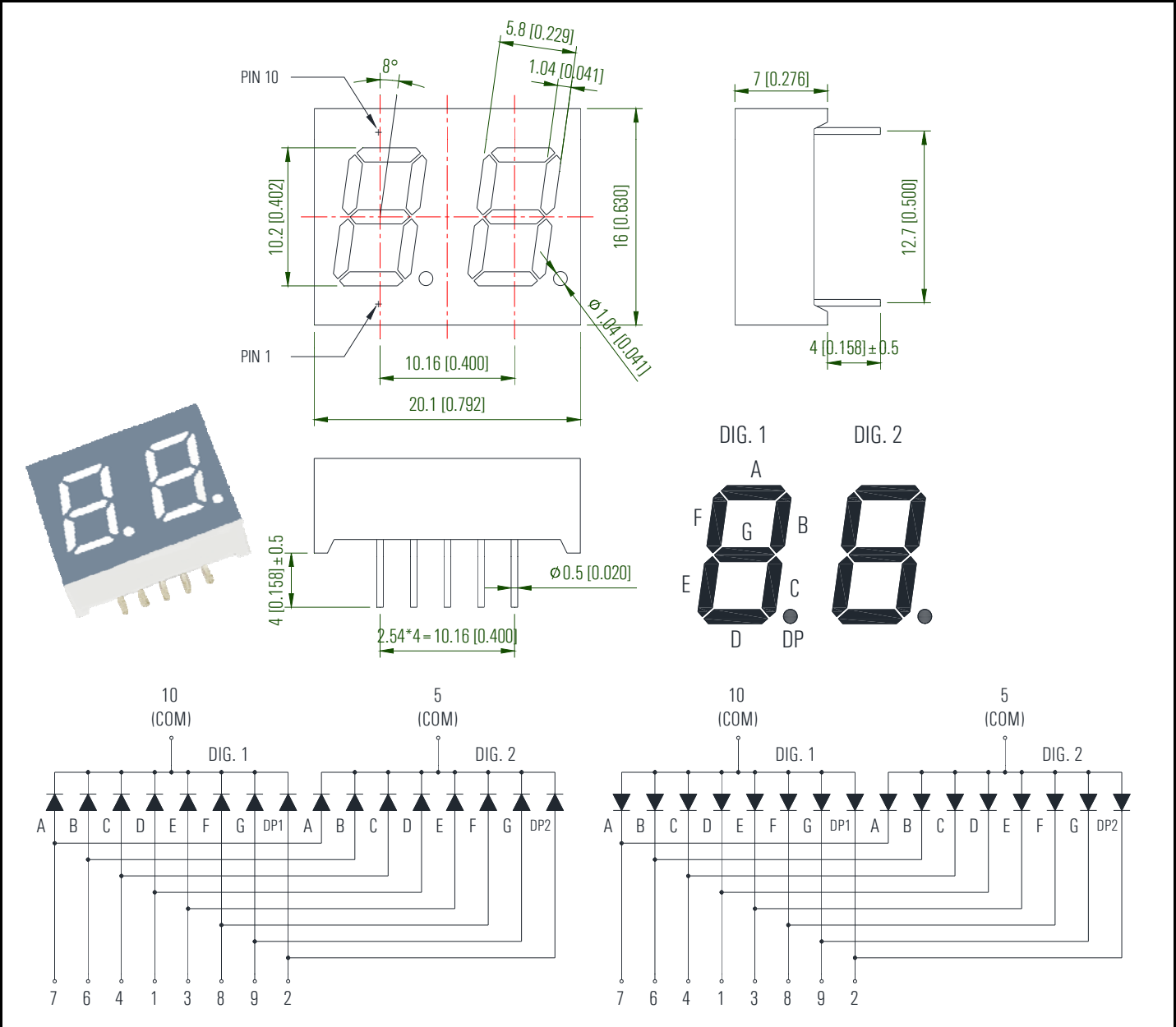
## 0.39" Dual Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW2-391CRA    | Deep Red     | 630            | Gray | 20 | 26.0  | Common Cathode |
| KW2-391CAA    | Orange       | 605            |      |    | 32.0  |                |
| KW2-391CGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW2-391CGA-G5 | Pure Green   | 525            |      |    | 88.0  |                |
| KW2-391CBA    | Blue         | 470            |      |    | 47.0  |                |
| KW2-391CWA-Y  | White        | x=0.30, y=0.31 |      |    | 140.0 | Common Anode   |
| KW2-391ARA    | Deep Red     | 630            |      |    | 26.0  |                |
| KW2-391AAA    | Orange       | 605            |      |    | 32.0  |                |
| KW2-391AGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW2-391AGA-G5 | Pure Green   | 525            |      |    | 88.0  |                |
| KW2-391ABA    | Blue         | 470            |      |    | 47.0  |                |
| KW2-391AWA-Y  | White        | x=0.30, y=0.31 |      |    | 140.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

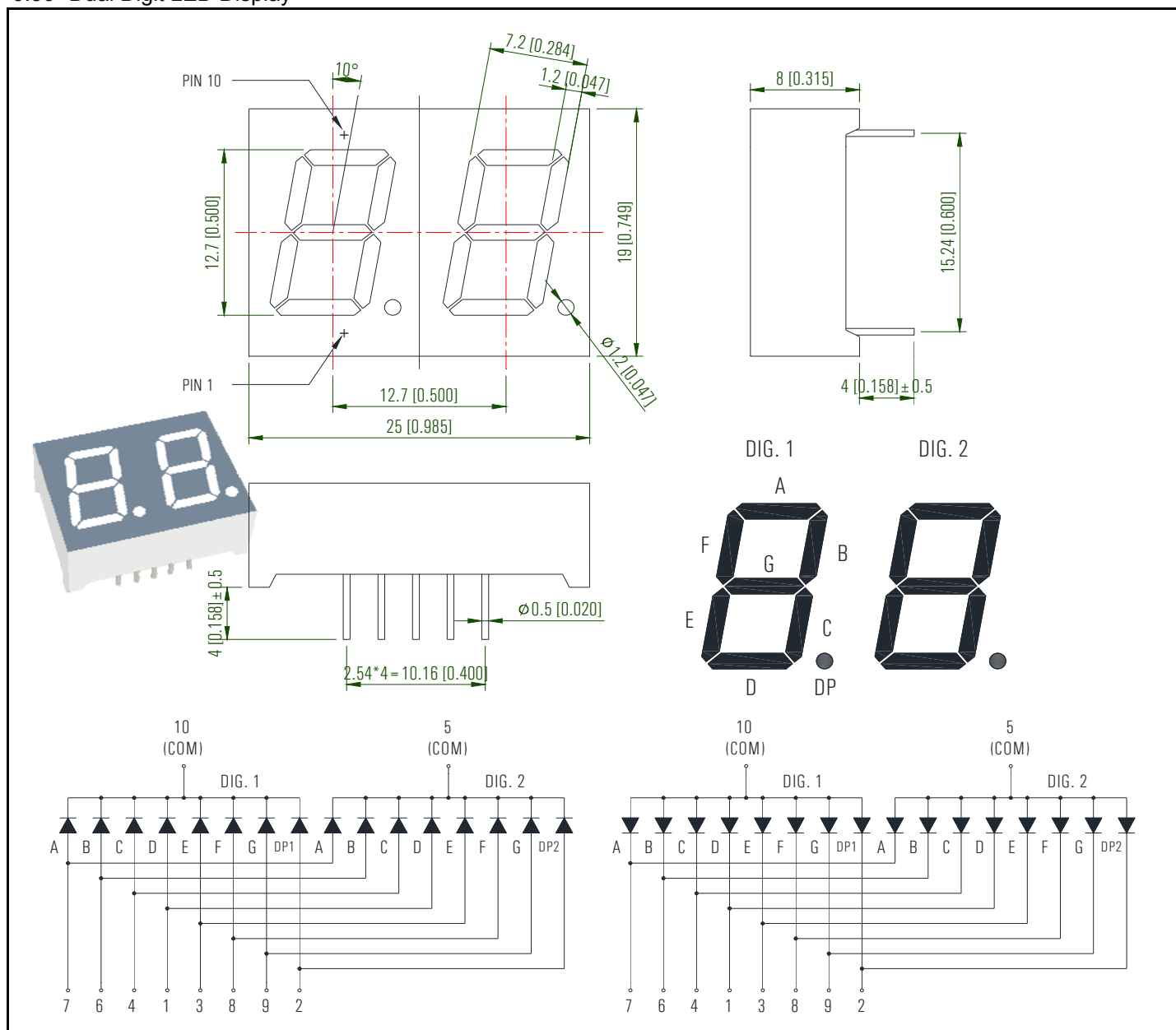
0.40" Dual Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW2-402CRA    | Deep Red     | 630            | Gray | 20 | 28.0  | Common Cathode |
| KW2-402CAA    | Orange       | 605            |      |    | 32.0  |                |
| KW2-402CGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW2-402CGA-G5 | Pure Green   | 525            |      |    | 90.0  |                |
| KW2-402CBA    | Blue         | 470            |      |    | 47.0  |                |
| KW2-402CWA    | White        | x=0.27, y=0.28 |      |    | 100.0 | Common Anode   |
| KW2-402ARA    | Deep Red     | 630            |      |    | 28.0  |                |
| KW2-402AAA    | Orange       | 605            |      |    | 32.0  |                |
| KW2-402AGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW2-402AGA-G5 | Pure Green   | 525            |      |    | 90.0  |                |
| KW2-402ABA    | Blue         | 470            |      |    | 47.0  |                |
| KW2-402AWA    | White        | x=0.27, y=0.28 |      |    | 100.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

## 0.50" Dual Digit LED Display

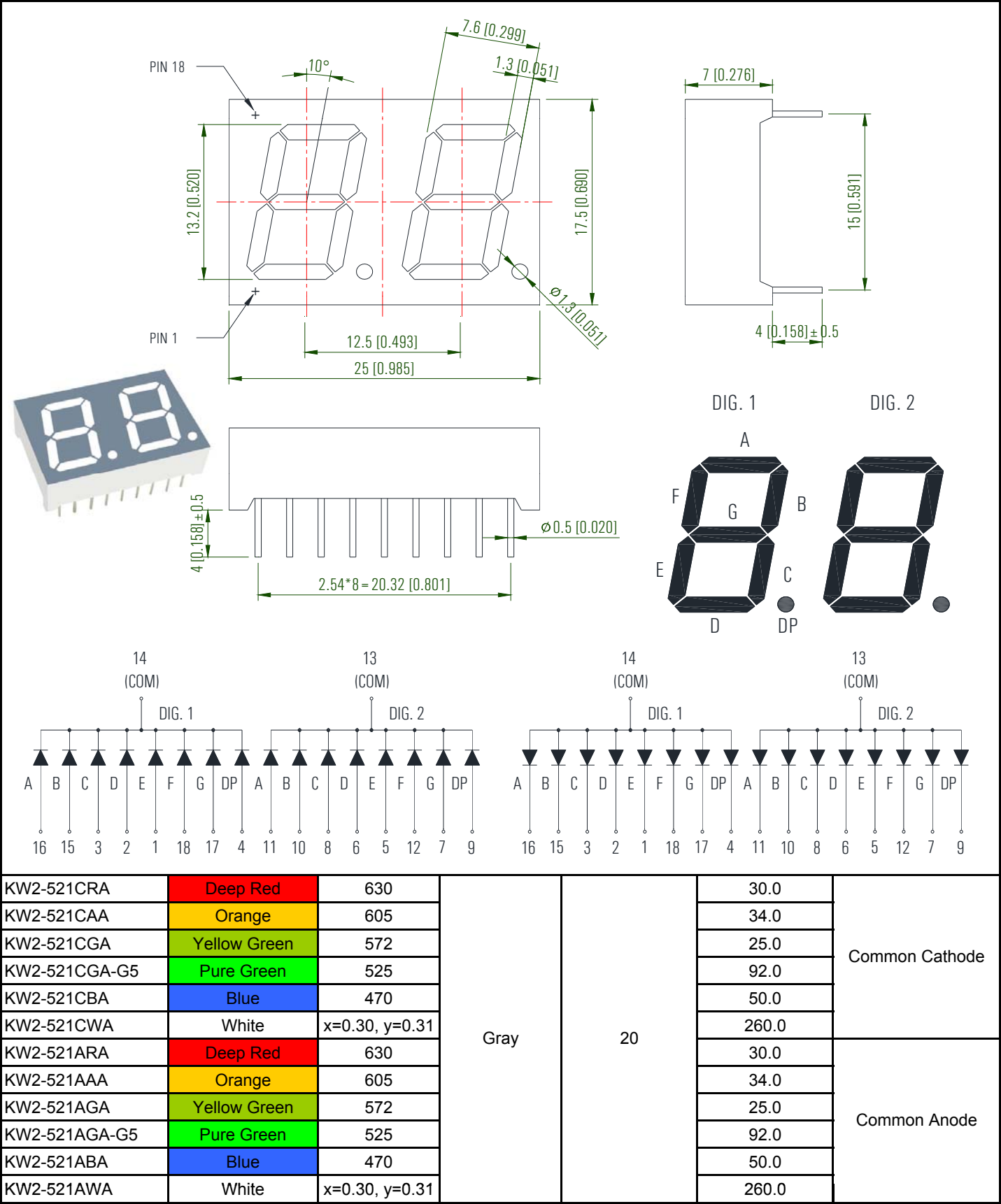


|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW2-502CRA    | Deep Red     | 630            | Gray | 20 | 30.0  | Common Cathode |
| KW2-502CAA    | Orange       | 605            |      |    | 34.0  |                |
| KW2-502CGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KW2-502CGA-G5 | Pure Green   | 525            |      |    | 92.0  |                |
| KW2-502CBA    | Blue         | 470            |      |    | 50.0  |                |
| KW2-502CWA    | White        | x=0.30, y=0.31 |      |    | 260.0 | Common Anode   |
| KW2-502ARA    | Deep Red     | 630            |      |    | 30.0  |                |
| KW2-502AAA    | Orange       | 605            |      |    | 34.0  |                |
| KW2-502AGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KW2-502AGA-G5 | Pure Green   | 525            |      |    | 92.0  |                |
| KW2-502ABA    | Blue         | 470            |      |    | 50.0  |                |
| KW2-502AWA    | White        | x=0.30, y=0.31 |      |    | 260.0 |                |



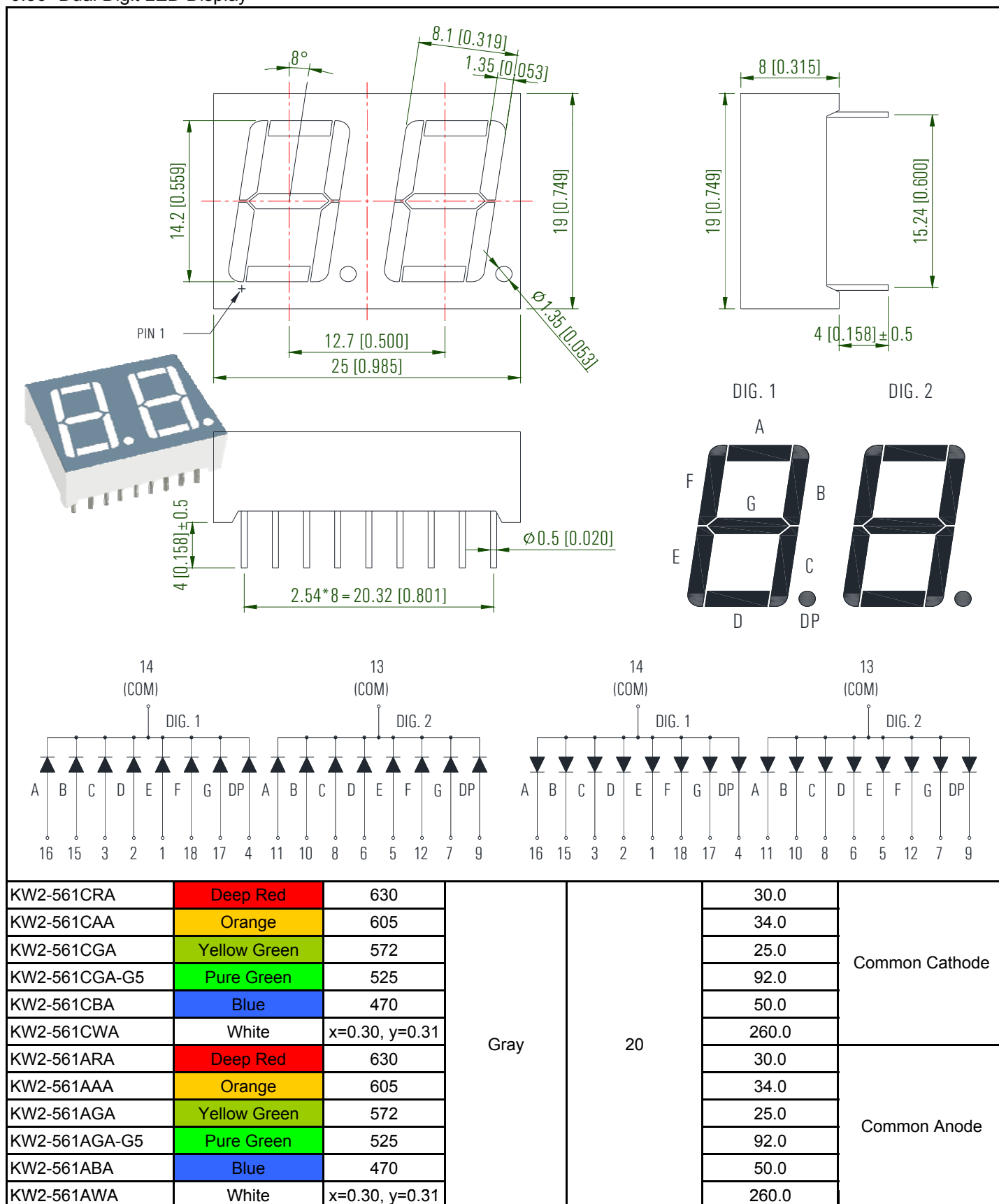
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.52" Dual Digit LED Display



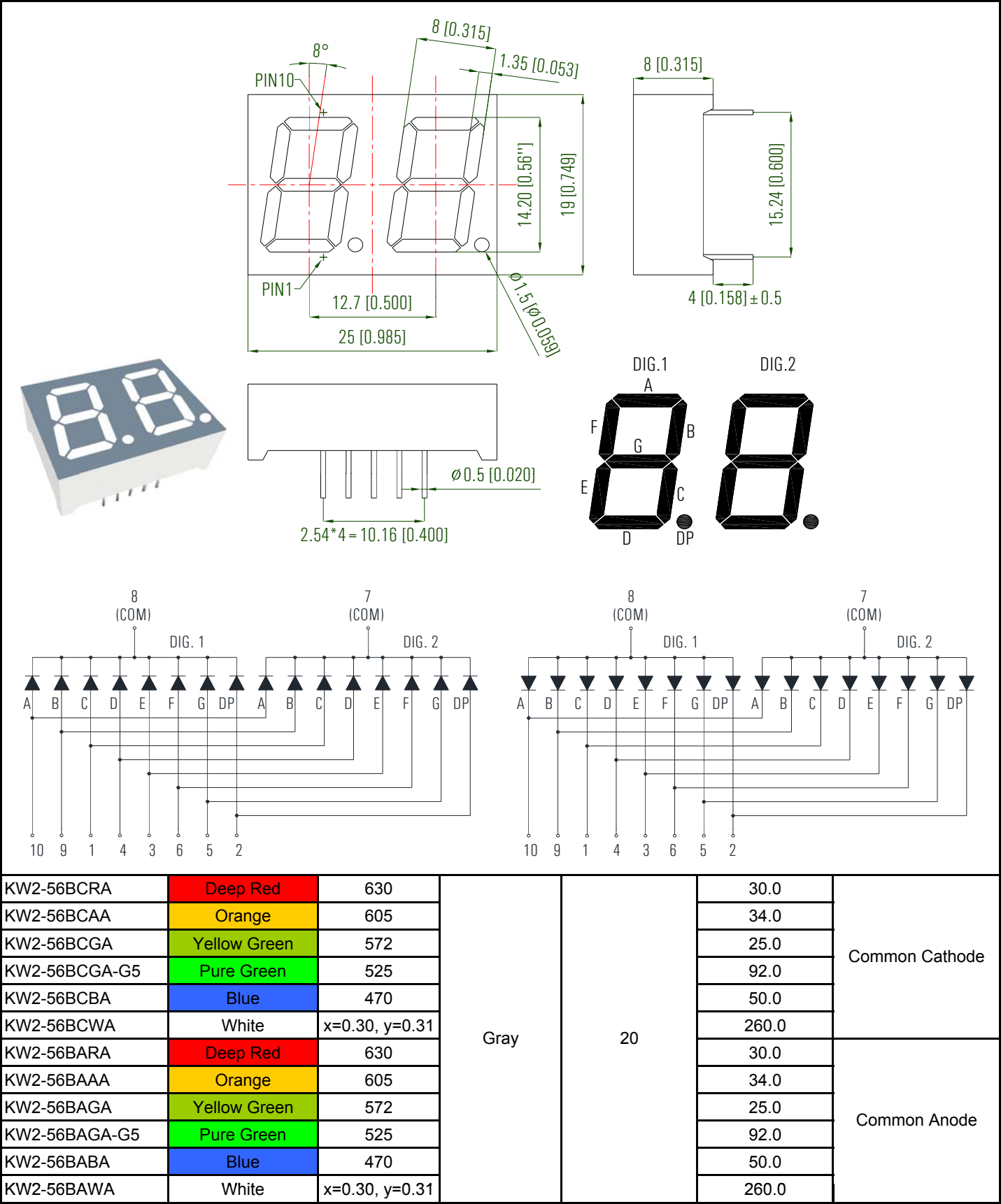
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

0.56" Dual Digit LED Display



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.56" Dual Digit LED Display



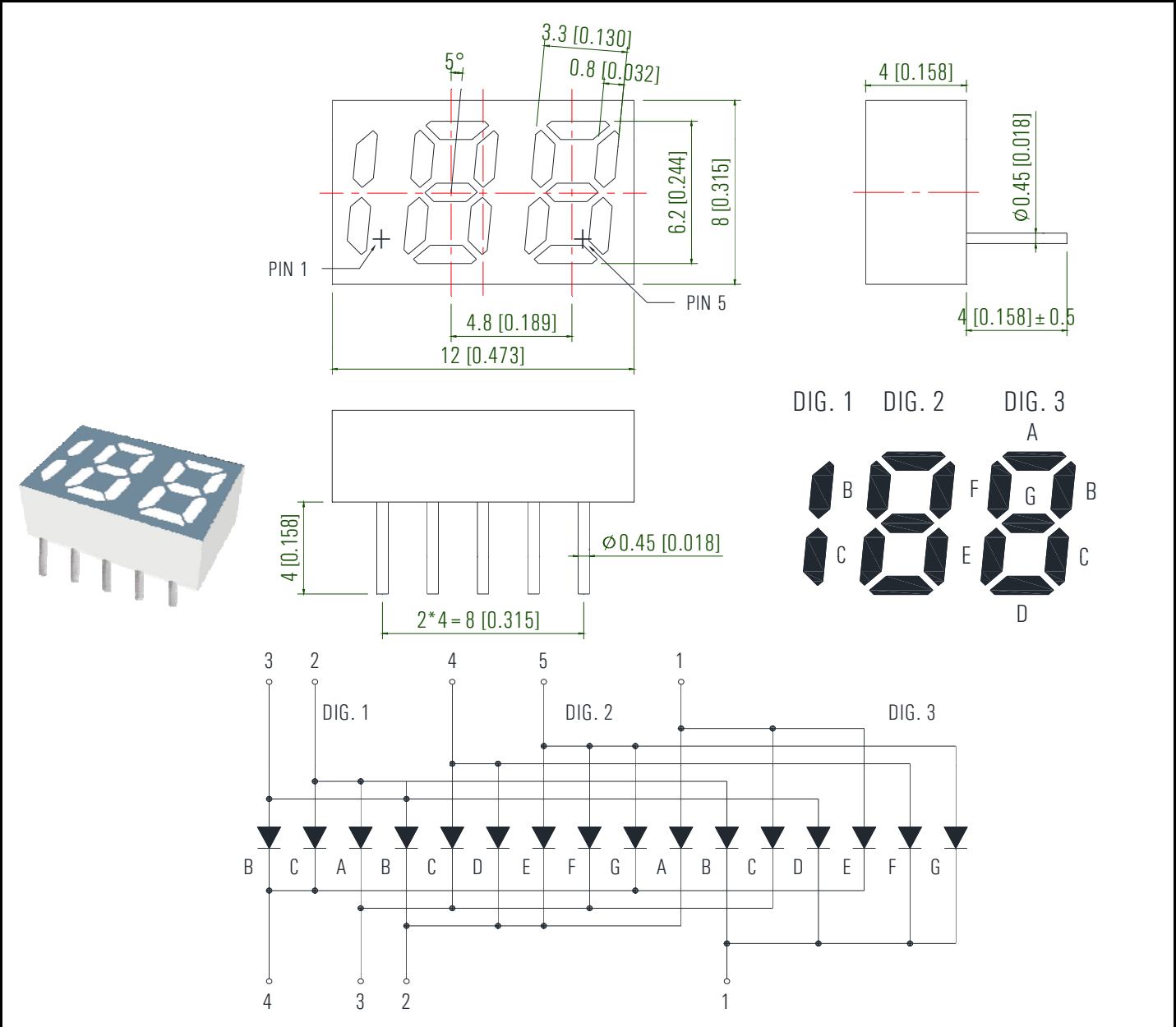
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

0.80" Dual Digit LED Display

|               |              |                |       |    |       |                |
|---------------|--------------|----------------|-------|----|-------|----------------|
|               |              |                |       |    |       |                |
|               |              |                |       |    |       |                |
|               |              |                |       |    |       |                |
| KW2-802CRB    | Deep Red     | 630            | Black | 20 | 32.0  | Common Cathode |
| KW2-802CAB    | Orange       | 605            |       |    | 36.0  |                |
| KW2-802CGB    | Yellow Green | 572            |       |    | 26.0  |                |
| KW2-802CGB-G5 | Pure Green   | 525            |       |    | 96.0  |                |
| KW2-802CBB    | Blue         | 470            |       |    | 52.0  |                |
| KW2-802CWB    | White        | x=0.30, y=0.31 |       |    | 270.0 | Common Anode   |
| KW2-802ARB    | Deep Red     | 630            |       |    | 32.0  |                |
| KW2-802AAB    | Orange       | 605            |       |    | 36.0  |                |
| KW2-802AGB    | Yellow Green | 572            |       |    | 26.0  |                |
| KW2-802AGB-G5 | Pure Green   | 525            |       |    | 96.0  |                |
| KW2-802ABB    | Blue         | 470            |       |    | 52.0  |                |
| KW2-802AWB    | White        | x=0.30, y=0.31 |       |    | 270.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.25" Dual Half Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KWE-251CRA    | Deep Red     | 630            | Gray | 20 | 22.0  | Common Cathode |
| KWE-251CAA    | Orange       | 605            |      |    | 24.0  |                |
| KWE-251CGA    | Yellow Green | 572            |      |    | 18.0  |                |
| KWE-251CGA-G5 | Pure Green   | 525            |      |    | 70.0  |                |
| KWE-251CBA    | Blue         | 470            |      |    | 38.0  |                |
| KWE-251CWA-Y  | White        | x=0.30, y=0.31 |      |    | 116.0 | Common Anode   |
| KWE-251ARA    | Deep Red     | 630            |      |    | 22.0  |                |
| KWE-251AAA    | Orange       | 605            |      |    | 24.0  |                |
| KWE-251AGA    | Yellow Green | 572            |      |    | 18.0  |                |
| KWE-251AGA-G5 | Pure Green   | 525            |      |    | 70.0  |                |
| KWE-251ABA    | Blue         | 470            |      |    | 38.0  |                |
| KWE-251AWA-Y  | White        | x=0.30, y=0.31 |      |    | 116.0 |                |

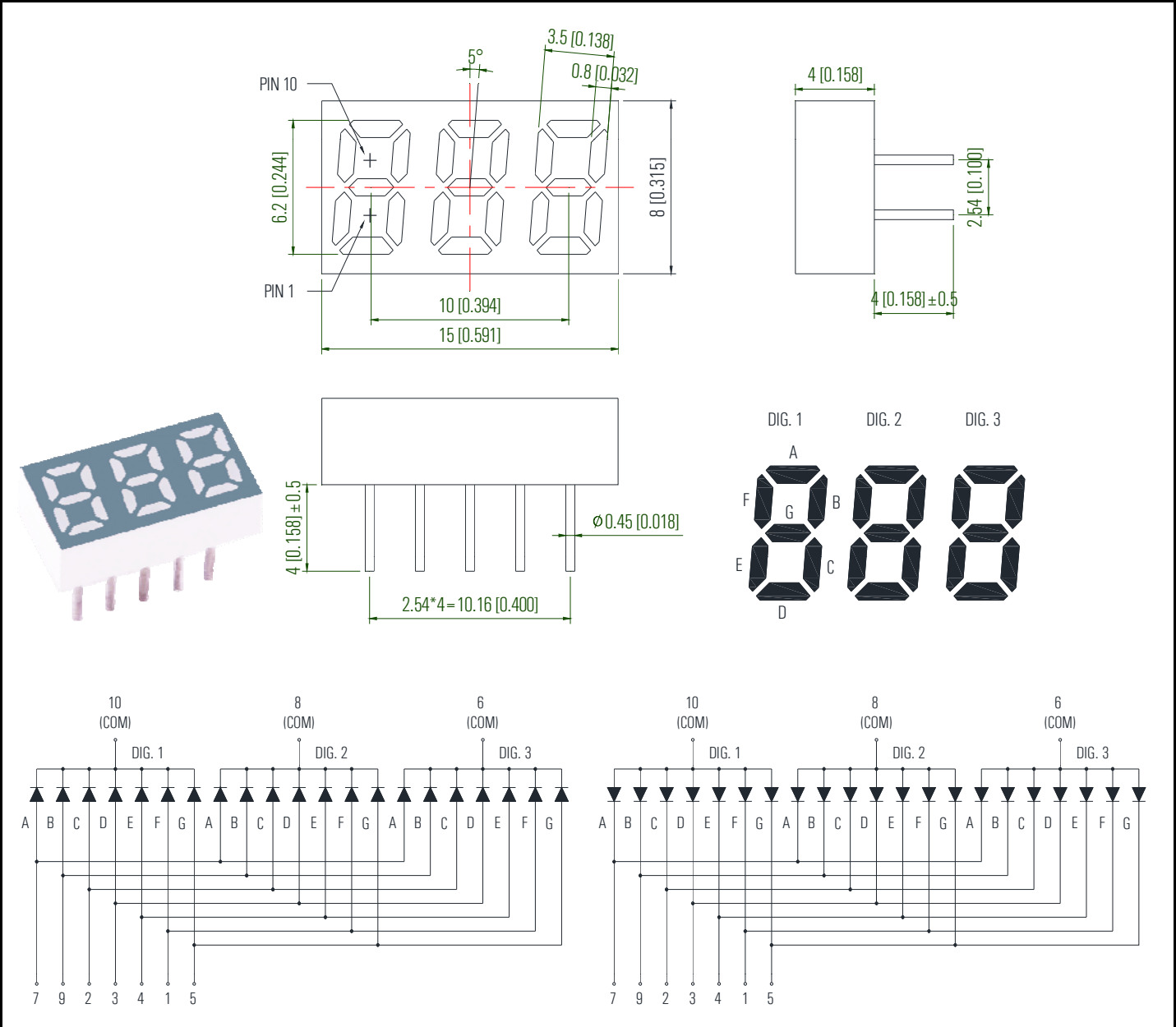
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

0.50" Dual Half Digit LED Display

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                |      |    |       |                |            |          |     |      |    |      |                |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |              |            |          |     |      |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|------|----|-------|----------------|------------|----------|-----|------|----|------|----------------|------------|--------|-----|------|------------|--------------|-----|------|---------------|------------|-----|------|------------|------|-----|------|------------|-------|----------------|-------|--------------|------------|----------|-----|------|------------|--------|-----|------|------------|--------------|-----|------|---------------|------------|-----|------|------------|------|-----|------|------------|-------|----------------|-------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                |      |    |       |                |            |          |     |      |    |      |                |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |              |            |          |     |      |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                |      |    |       |                |            |          |     |      |    |      |                |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |              |            |          |     |      |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |
| <table border="1"> <tr> <td>KWE-501CRA</td><td>Deep Red</td><td>630</td><td rowspan="12">Gray</td><td rowspan="12">20</td><td>30.0</td><td rowspan="5">Common Cathode</td></tr> <tr> <td>KWE-501CAA</td><td>Orange</td><td>605</td><td>34.0</td></tr> <tr> <td>KWE-501CGA</td><td>Yellow Green</td><td>572</td><td>25.0</td></tr> <tr> <td>KWE-501CGA-G5</td><td>Pure Green</td><td>525</td><td>92.0</td></tr> <tr> <td>KWE-501CBA</td><td>Blue</td><td>470</td><td>50.0</td></tr> <tr> <td>KWE-501CWA</td><td>White</td><td>x=0.30, y=0.31</td><td>260.0</td><td rowspan="7">Common Anode</td></tr> <tr> <td>KWE-501ARA</td><td>Deep Red</td><td>630</td><td>30.0</td></tr> <tr> <td>KWE-501AAA</td><td>Orange</td><td>605</td><td>34.0</td></tr> <tr> <td>KWE-501AGA</td><td>Yellow Green</td><td>572</td><td>25.0</td></tr> <tr> <td>KWE-501AGA-G5</td><td>Pure Green</td><td>525</td><td>92.0</td></tr> <tr> <td>KWE-501ABA</td><td>Blue</td><td>470</td><td>50.0</td></tr> <tr> <td>KWE-501AWA</td><td>White</td><td>x=0.30, y=0.31</td><td>260.0</td></tr> </table> |              |                |      |    |       |                | KWE-501CRA | Deep Red | 630 | Gray | 20 | 30.0 | Common Cathode | KWE-501CAA | Orange | 605 | 34.0 | KWE-501CGA | Yellow Green | 572 | 25.0 | KWE-501CGA-G5 | Pure Green | 525 | 92.0 | KWE-501CBA | Blue | 470 | 50.0 | KWE-501CWA | White | x=0.30, y=0.31 | 260.0 | Common Anode | KWE-501ARA | Deep Red | 630 | 30.0 | KWE-501AAA | Orange | 605 | 34.0 | KWE-501AGA | Yellow Green | 572 | 25.0 | KWE-501AGA-G5 | Pure Green | 525 | 92.0 | KWE-501ABA | Blue | 470 | 50.0 | KWE-501AWA | White | x=0.30, y=0.31 | 260.0 |
| KWE-501CRA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Deep Red     | 630            | Gray | 20 | 30.0  | Common Cathode |            |          |     |      |    |      |                |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |              |            |          |     |      |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |
| KWE-501CAA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Orange       | 605            |      |    | 34.0  |                |            |          |     |      |    |      |                |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |              |            |          |     |      |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |
| KWE-501CGA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yellow Green | 572            |      |    | 25.0  |                |            |          |     |      |    |      |                |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |              |            |          |     |      |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |
| KWE-501CGA-G5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pure Green   | 525            |      |    | 92.0  |                |            |          |     |      |    |      |                |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |              |            |          |     |      |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |
| KWE-501CBA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Blue         | 470            |      |    | 50.0  |                |            |          |     |      |    |      |                |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |              |            |          |     |      |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |
| KWE-501CWA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | White        | x=0.30, y=0.31 |      |    | 260.0 | Common Anode   |            |          |     |      |    |      |                |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |              |            |          |     |      |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |
| KWE-501ARA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Deep Red     | 630            |      |    | 30.0  |                |            |          |     |      |    |      |                |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |              |            |          |     |      |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |
| KWE-501AAA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Orange       | 605            |      |    | 34.0  |                |            |          |     |      |    |      |                |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |              |            |          |     |      |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |
| KWE-501AGA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yellow Green | 572            |      |    | 25.0  |                |            |          |     |      |    |      |                |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |              |            |          |     |      |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |
| KWE-501AGA-G5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pure Green   | 525            |      |    | 92.0  |                |            |          |     |      |    |      |                |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |              |            |          |     |      |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |
| KWE-501ABA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Blue         | 470            |      |    | 50.0  |                |            |          |     |      |    |      |                |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |              |            |          |     |      |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |
| KWE-501AWA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | White        | x=0.30, y=0.31 |      |    | 260.0 |                |            |          |     |      |    |      |                |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |              |            |          |     |      |            |        |     |      |            |              |     |      |               |            |     |      |            |      |     |      |            |       |                |       |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

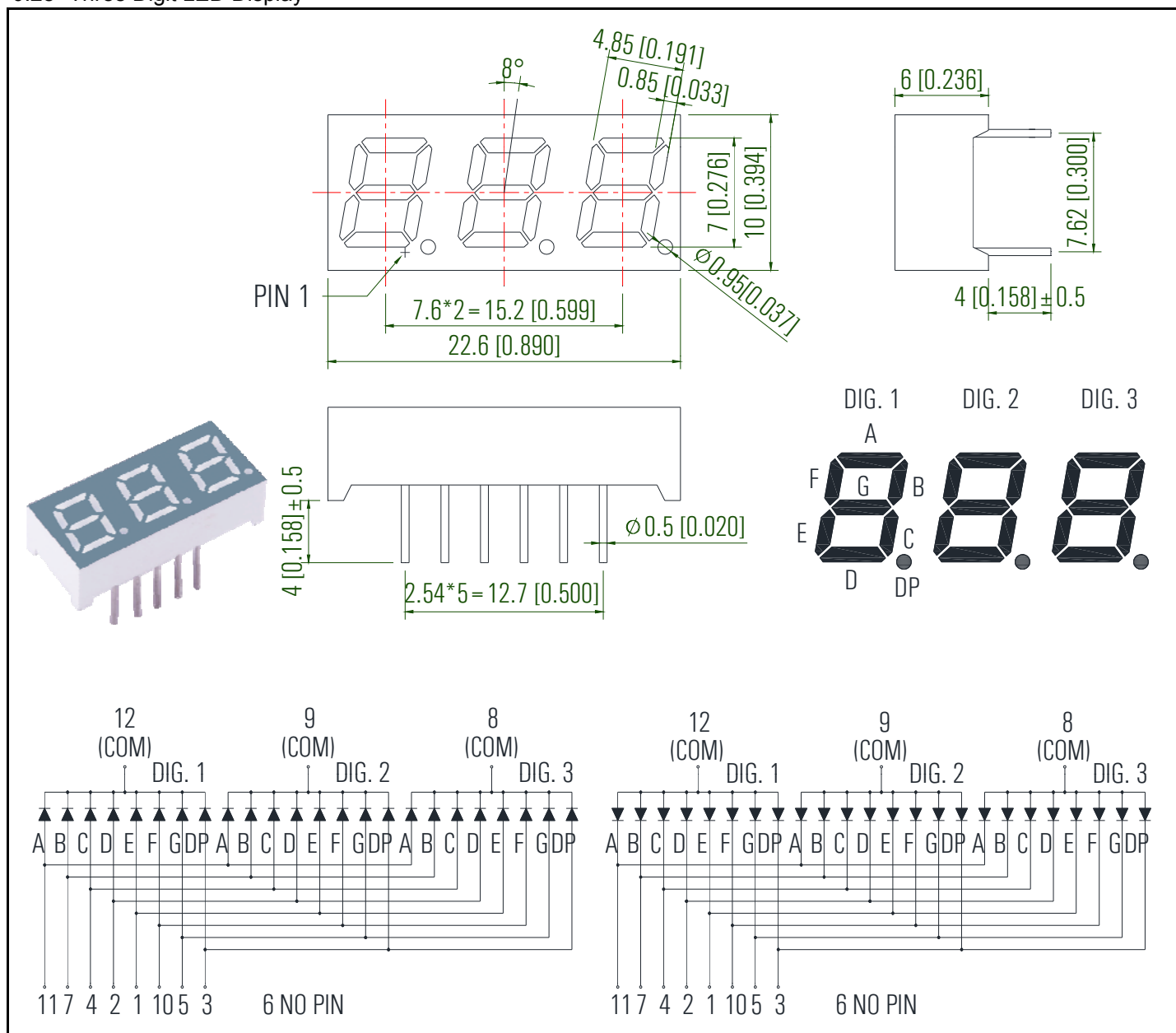
0.25" Three Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW3-251CRA    | Deep Red     | 630            | Gray | 20 | 22.0  | Common Cathode |
| KW3-251CAA    | Orange       | 605            |      |    | 24.0  |                |
| KW3-251CGA    | Yellow Green | 572            |      |    | 18.0  |                |
| KW3-251CGA-G5 | Pure Green   | 525            |      |    | 70.0  |                |
| KW3-251CBA    | Blue         | 470            |      |    | 38.0  |                |
| KW3-251CWA-Y  | White        | x=0.30, y=0.31 |      |    | 116.0 | Common Anode   |
| KW3-251ARA    | Deep Red     | 630            |      |    | 22.0  |                |
| KW3-251AAA    | Orange       | 605            |      |    | 24.0  |                |
| KW3-251AGA    | Yellow Green | 572            |      |    | 18.0  |                |
| KW3-251AGA-G5 | Pure Green   | 525            |      |    | 70.0  |                |
| KW3-251ABA    | Blue         | 470            |      |    | 38.0  |                |
| KW3-251AWA-Y  | White        | x=0.30, y=0.31 |      |    | 116.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

0.28" Three Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW3-281CRA    | Deep Red     | 630            | Gray | 20 | 22.0  | Common Cathode |
| KW3-281CAA    | Orange       | 605            |      |    | 30.0  |                |
| KW3-281CGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KW3-281CGA-G5 | Pure Green   | 525            |      |    | 80.0  |                |
| KW3-281CBA    | Blue         | 470            |      |    | 44.0  |                |
| KW3-281CWA-Y  | White        | x=0.30, y=0.31 |      |    | 130.0 | Common Anode   |
| KW3-281ARA    | Deep Red     | 630            |      |    | 22.0  |                |
| KW3-281AAA    | Orange       | 605            |      |    | 30.0  |                |
| KW3-281AGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KW3-281AGA-G5 | Pure Green   | 525            |      |    | 80.0  |                |
| KW3-281ABA    | Blue         | 470            |      |    | 44.0  |                |
| KW3-281AWA-Y  | White        | x=0.30, y=0.31 |      |    | 130.0 |                |



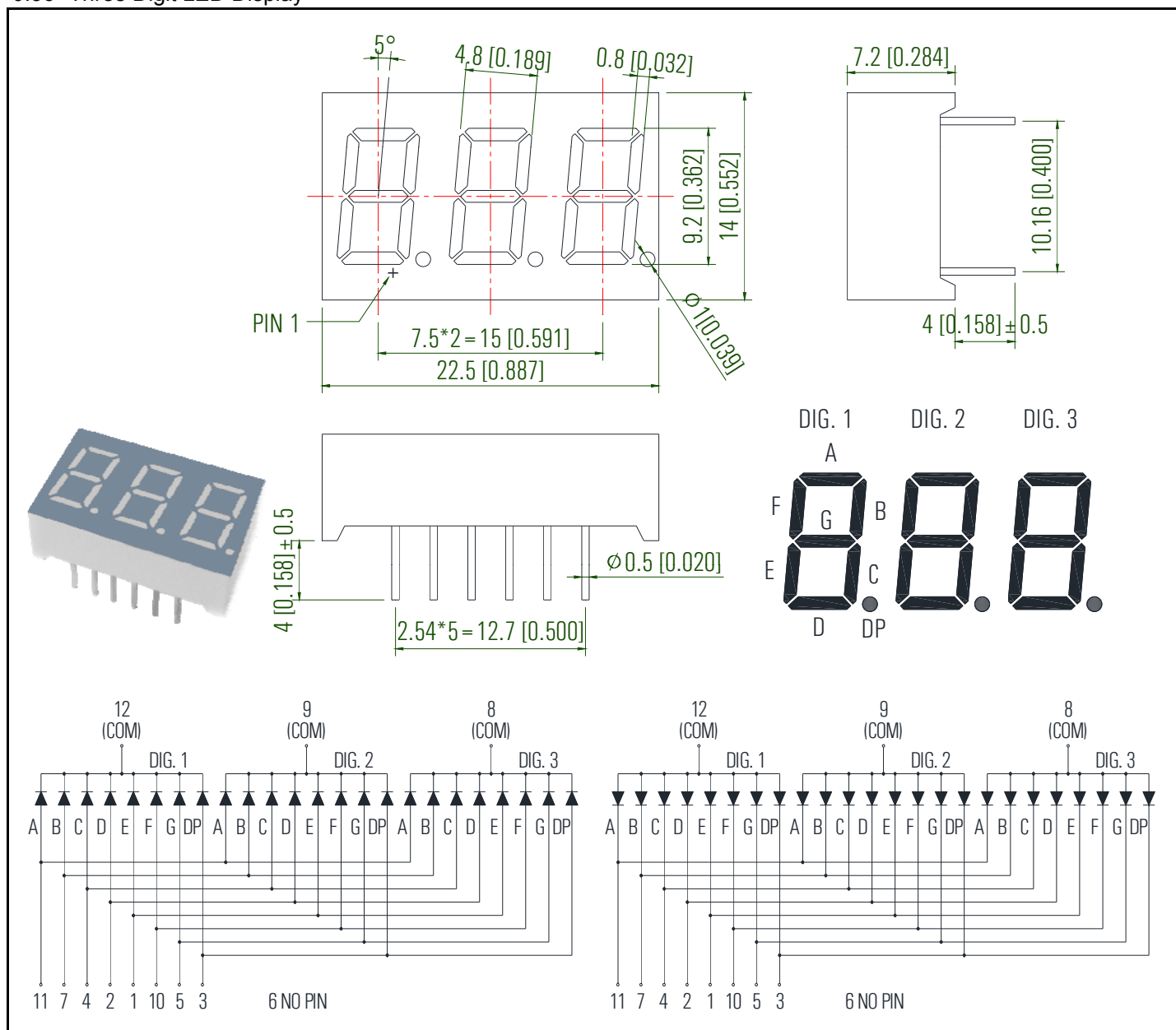
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.31" Three Digit LED Display

|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW3-304CRA    | Deep Red     | 630            | Gray | 20 | 24.0  | Common Cathode |
| KW3-304CAA    | Orange       | 605            |      |    | 32.0  |                |
| KW3-304CGA    | Yellow Green | 572            |      |    | 22.0  |                |
| KW3-304CGA-G5 | Pure Green   | 525            |      |    | 84.0  |                |
| KW3-304CBA    | Blue         | 470            |      |    | 46.0  |                |
| KW3-304CWA-Y  | White        | x=0.30, y=0.31 |      |    | 136.0 | Common Anode   |
| KW3-304ARA    | Deep Red     | 630            |      |    | 24.0  |                |
| KW3-304AAA    | Orange       | 605            |      |    | 32.0  |                |
| KW3-304AGA    | Yellow Green | 572            |      |    | 22.0  |                |
| KW3-304AGA-G5 | Pure Green   | 525            |      |    | 84.0  |                |
| KW3-304ABA    | Blue         | 470            |      |    | 46.0  |                |
| KW3-304AWA-Y  | White        | x=0.30, y=0.31 |      |    | 136.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

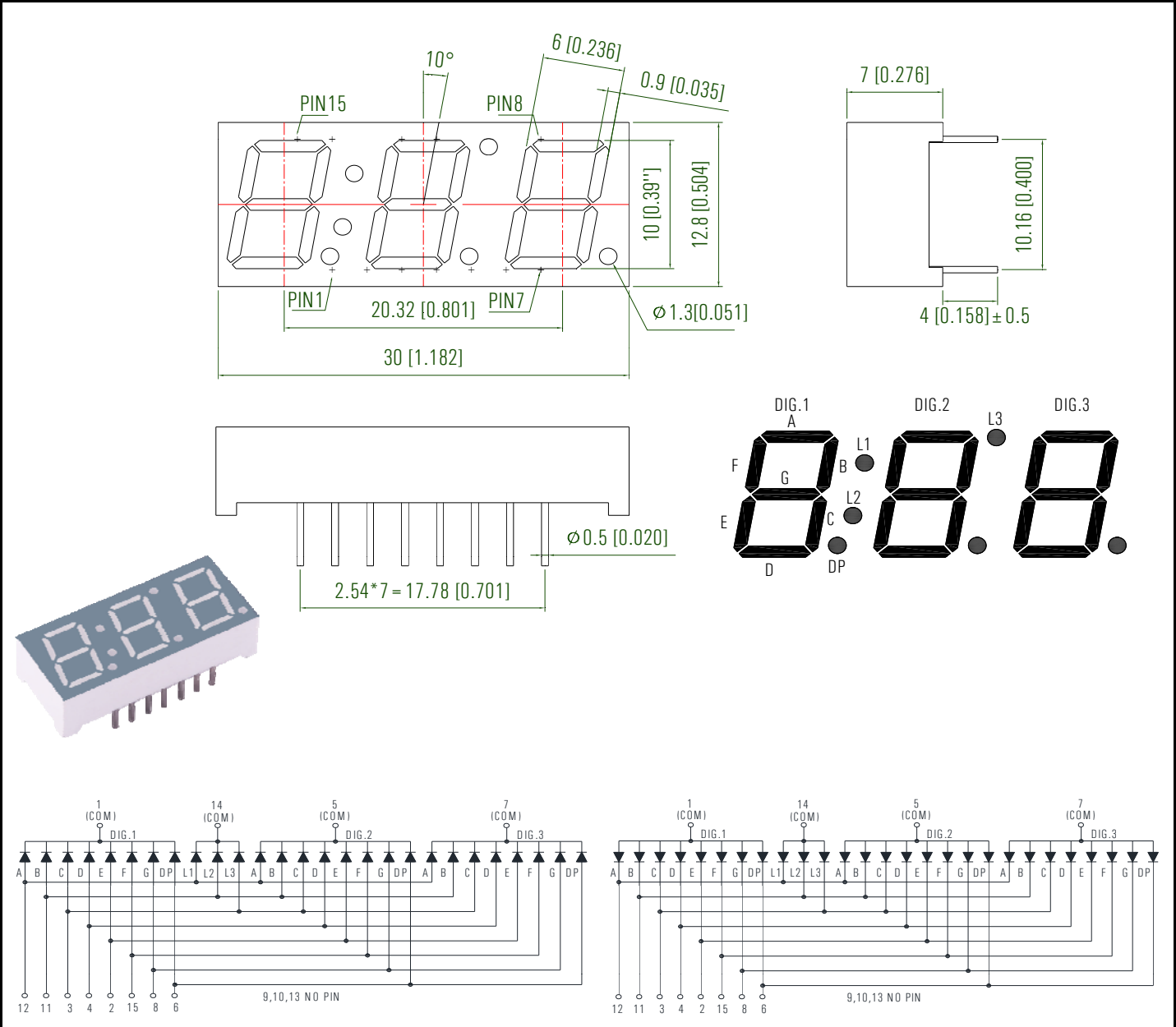
## 0.36" Three Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW3-361CRA    | Deep Red     | 630            | Gray | 20 | 25.0  | Common Cathode |
| KW3-361CAA    | Orange       | 605            |      |    | 32.0  |                |
| KW3-361CGA    | Yellow Green | 572            |      |    | 23.0  |                |
| KW3-361CGA-G5 | Pure Green   | 525            |      |    | 86.0  |                |
| KW3-361CBA    | Blue         | 470            |      |    | 46.0  |                |
| KW3-361CWA-Y  | White        | x=0.30, y=0.31 |      |    | 138.0 | Common Anode   |
| KW3-361ARA    | Deep Red     | 630            |      |    | 25.0  |                |
| KW3-361AAA    | Orange       | 605            |      |    | 32.0  |                |
| KW3-361AGA    | Yellow Green | 572            |      |    | 23.0  |                |
| KW3-361AGA-G5 | Pure Green   | 525            |      |    | 86.0  |                |
| KW3-361ABA    | Blue         | 470            |      |    | 46.0  |                |
| KW3-361AWA-Y  | White        | x=0.30, y=0.31 |      |    | 138.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

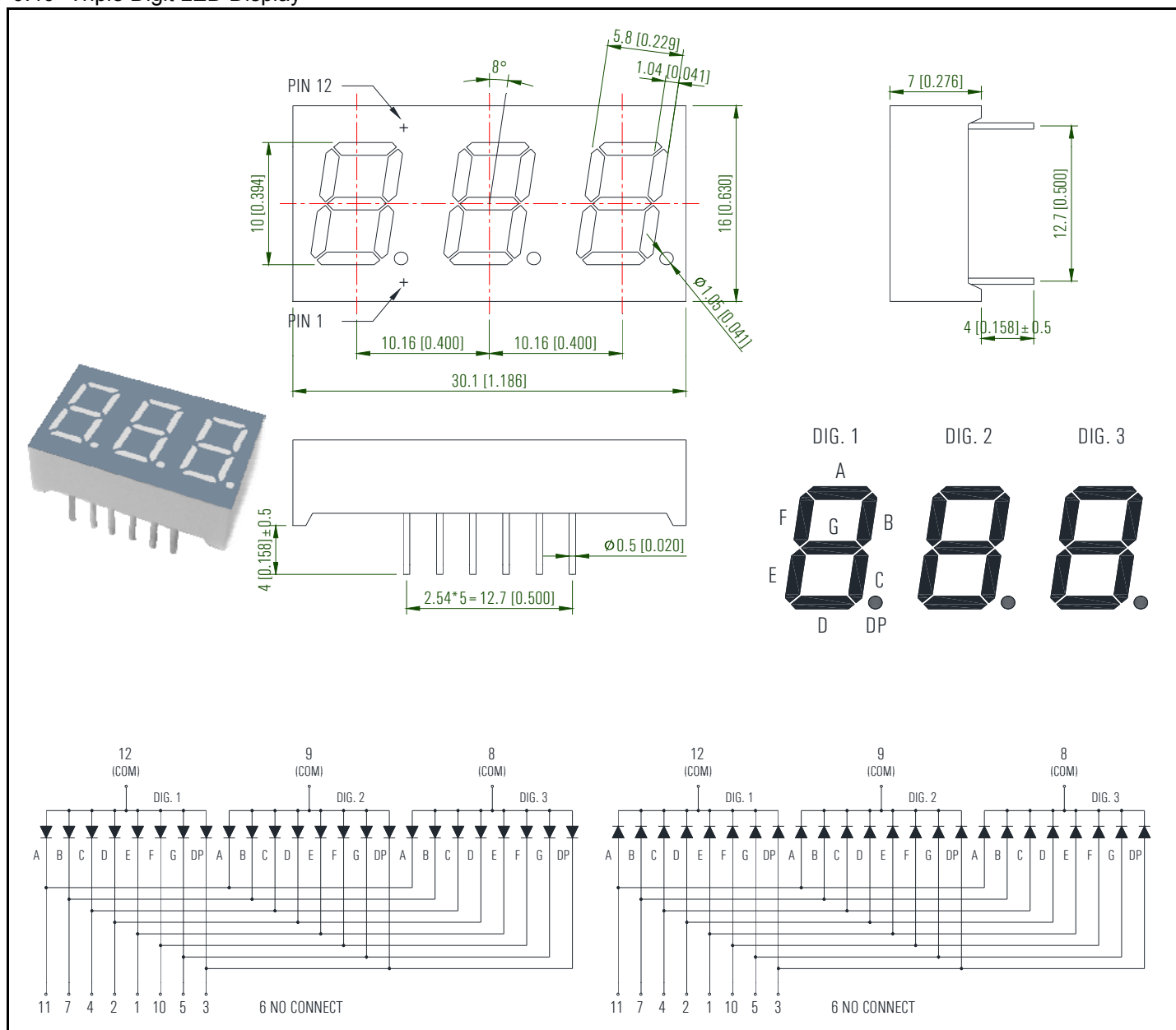
0.39" Three Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW3-392CRA    | Deep Red     | 630            | Gray | 20 | 26.0  | Common Cathode |
| KW3-392CAA    | Orange       | 605            |      |    | 32.0  |                |
| KW3-392CGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW3-392CGA-G5 | Pure Green   | 525            |      |    | 88.0  |                |
| KW3-392CBA    | Blue         | 470            |      |    | 47.0  |                |
| KW3-392CWA-Y  | White        | x=0.30, y=0.31 |      |    | 140.0 | Common Anode   |
| KW3-392ARA    | Deep Red     | 630            |      |    | 26.0  |                |
| KW3-392AAA    | Orange       | 605            |      |    | 32.0  |                |
| KW3-392AGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW3-392AGA-G5 | Pure Green   | 525            |      |    | 88.0  |                |
| KW3-392ABA    | Blue         | 470            |      |    | 47.0  |                |
| KW3-392AWA-Y  | White        | x=0.30, y=0.31 |      |    | 140.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

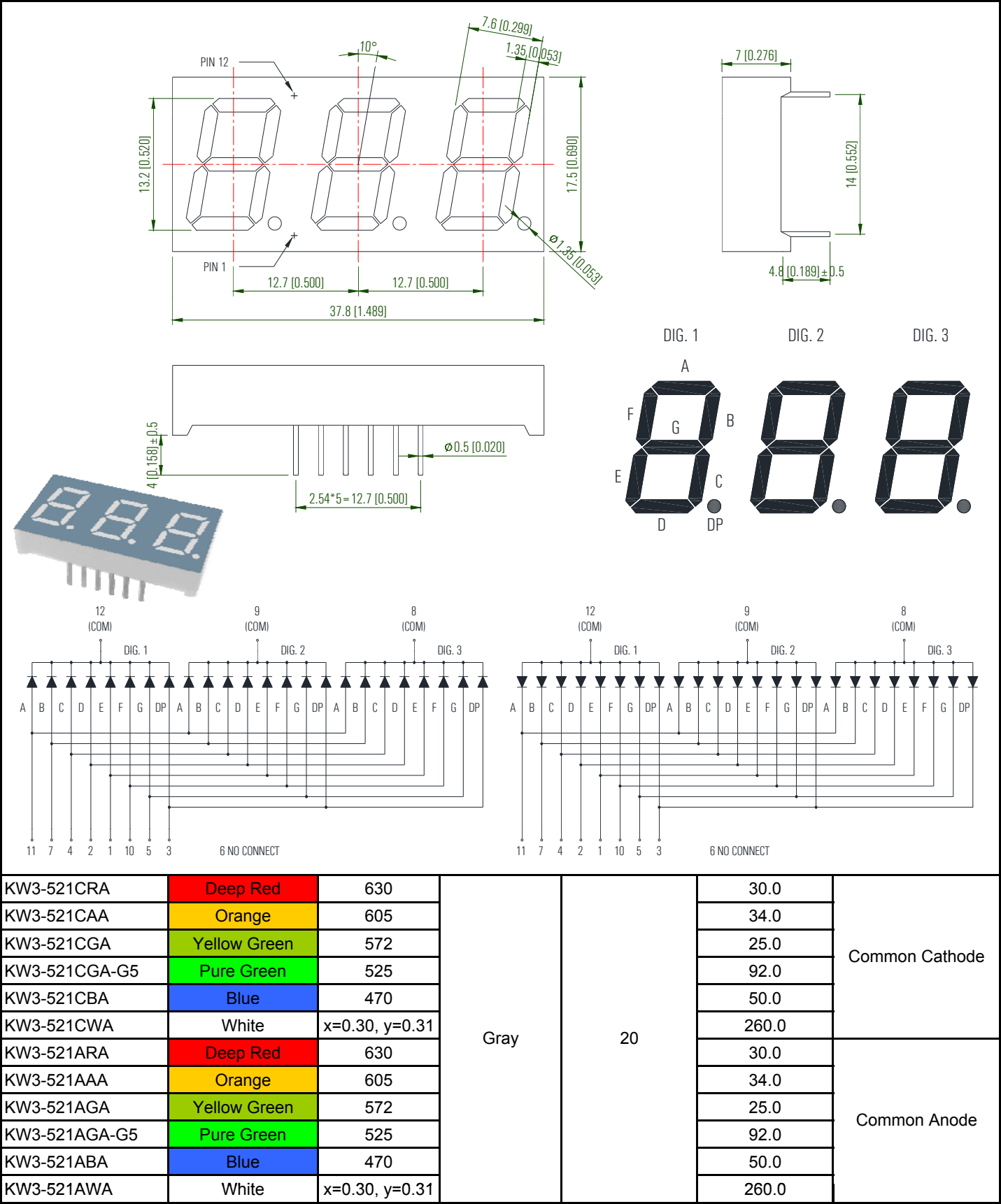
0.40" Triple Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW3-401CRA    | Deep Red     | 630            | Gray | 20 | 30.0  | Common Cathode |
| KW3-401CAA    | Orange       | 605            |      |    | 34.0  |                |
| KW3-401CGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW3-401CGA-G5 | Pure Green   | 525            |      |    | 90.0  |                |
| KW3-401CBA    | Blue         | 470            |      |    | 47.0  |                |
| KW3-401CWA    | White        | x=0.27, y=0.28 |      |    | 140.0 | Common Anode   |
| KW3-401ARA    | Deep Red     | 630            |      |    | 30.0  |                |
| KW3-401AAA    | Orange       | 605            |      |    | 34.0  |                |
| KW3-401AGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW3-401AGA-G5 | Pure Green   | 525            |      |    | 90.0  |                |
| KW3-401ABA    | Blue         | 470            |      |    | 47.0  |                |
| KW3-401AWA    | White        | x=0.27, y=0.28 |      |    | 140.0 |                |

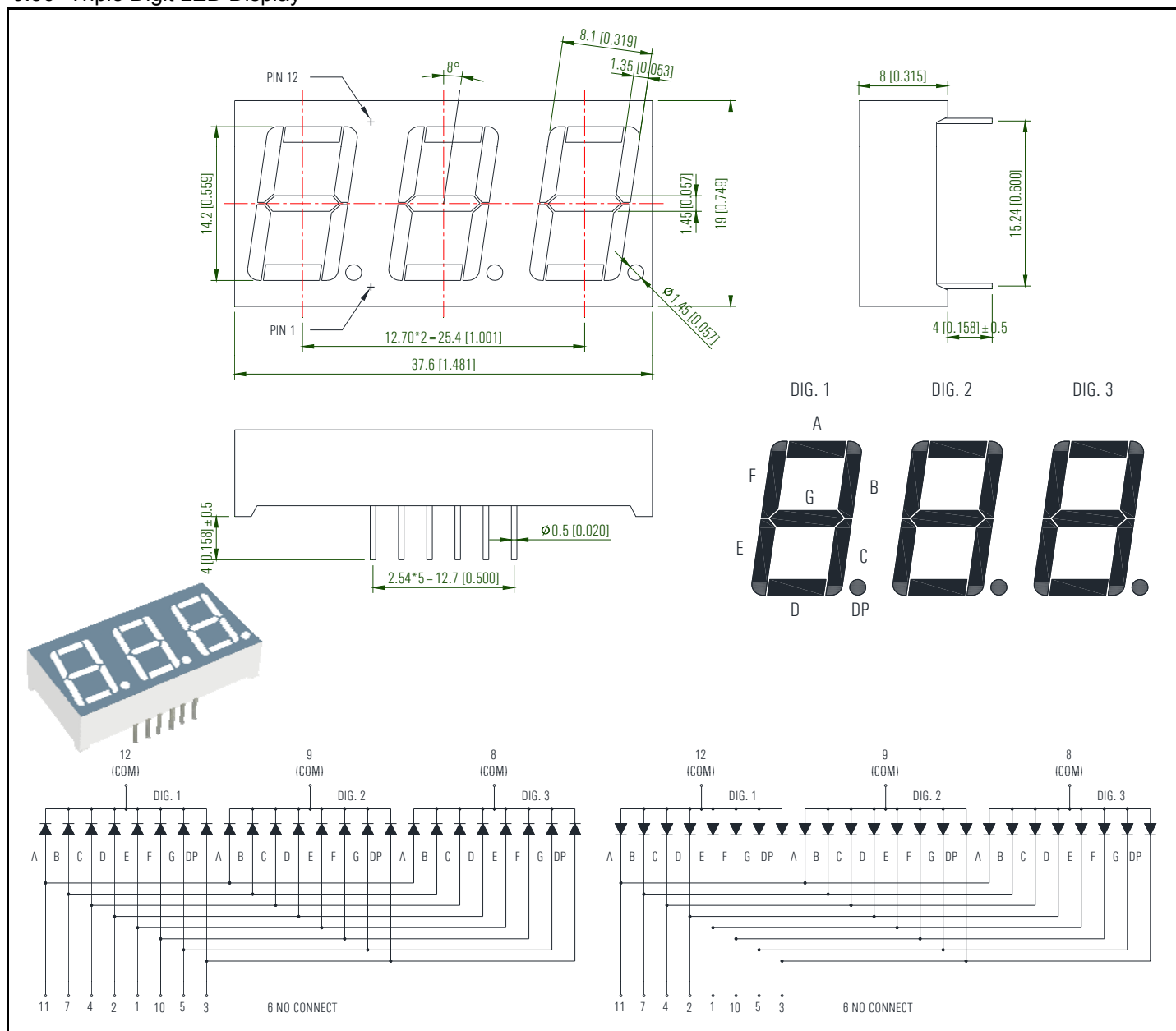
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.52" Triple Digit LED Display



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

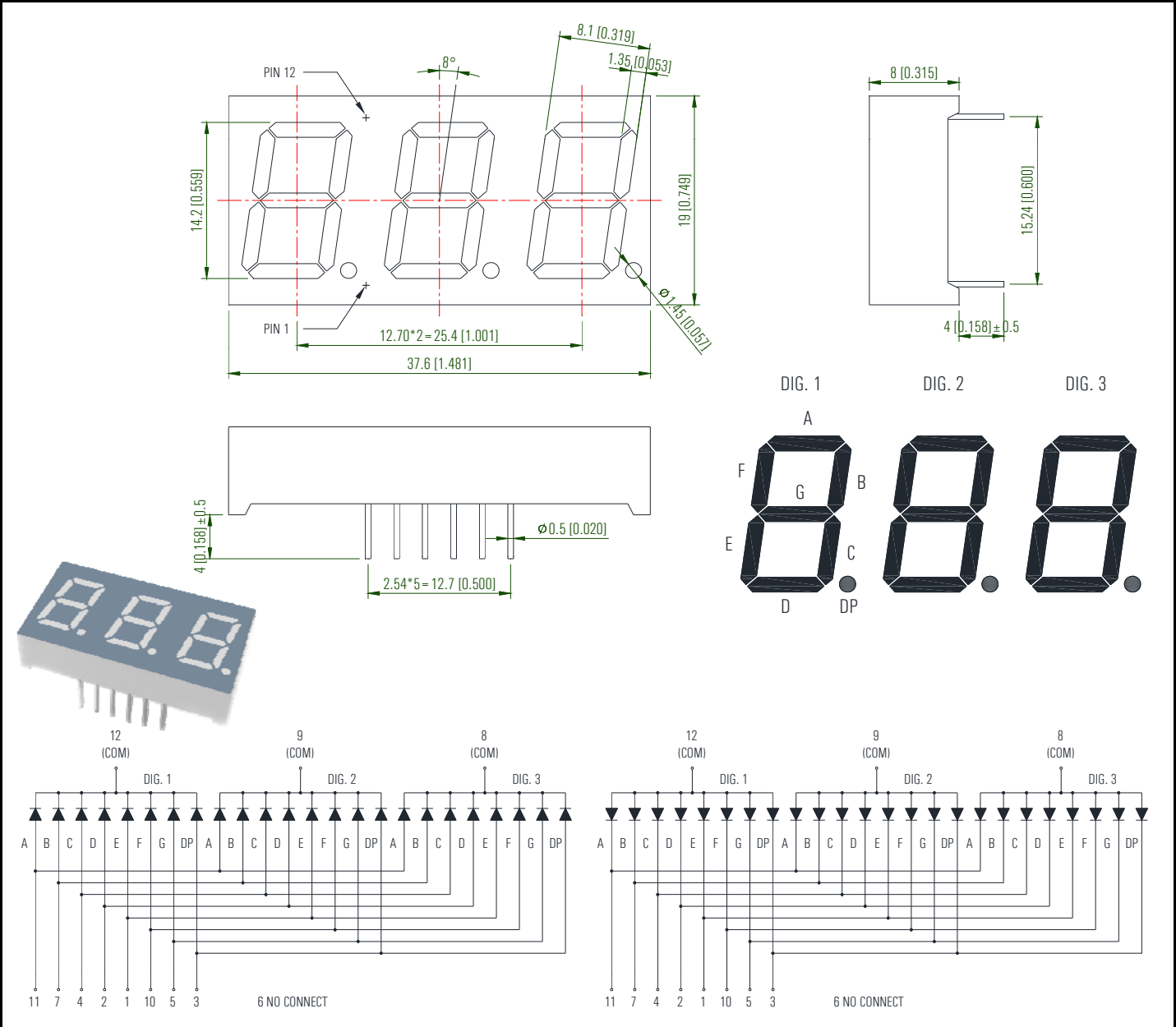
# 0.56" Triple Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW3-561CRA    | Deep Red     | 630            | Gray | 20 | 32.0  | Common Cathode |
| KW3-561CAA    | Orange       | 605            |      |    | 34.0  |                |
| KW3-561CGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KW3-561CGA-G5 | Pure Green   | 525            |      |    | 92.0  |                |
| KW3-561CBA    | Blue         | 470            |      |    | 50.0  |                |
| KW3-561CWA    | White        | x=0.30, y=0.31 |      |    | 260.0 | Common Anode   |
| KW3-561ARA    | Deep Red     | 630            |      |    | 32.0  |                |
| KW3-561AAA    | Orange       | 605            |      |    | 34.0  |                |
| KW3-561AGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KW3-561AGA-G5 | Pure Green   | 525            |      |    | 92.0  |                |
| KW3-561ABA    | Blue         | 470            |      |    | 50.0  |                |
| KW3-561AWA    | White        | x=0.30, y=0.31 |      |    | 260.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

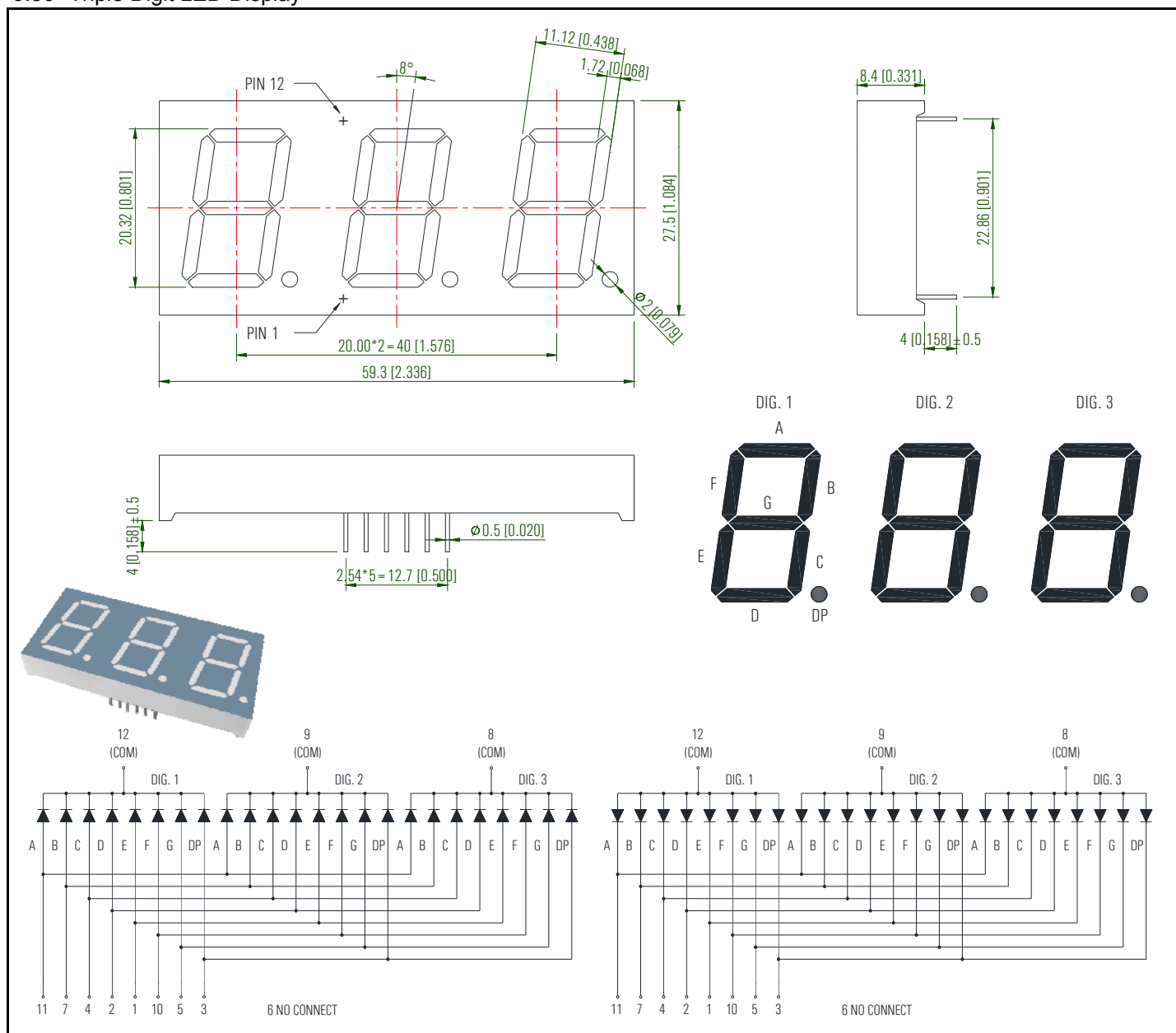
0.56" Triple Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW3-567CRA    | Deep Red     | 630            | Gray | 20 | 32.0  | Common Cathode |
| KW3-567CAA    | Orange       | 605            |      |    | 34.0  |                |
| KW3-567CGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KW3-567CGA-G5 | Pure Green   | 525            |      |    | 92.0  |                |
| KW3-567CBA    | Blue         | 470            |      |    | 50.0  |                |
| KW3-567CWA    | White        | x=0.30, y=0.31 |      |    | 260.0 | Common Anode   |
| KW3-567ARA    | Deep Red     | 630            |      |    | 32.0  |                |
| KW3-567AAA    | Orange       | 605            |      |    | 34.0  |                |
| KW3-567AGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KW3-567AGA-G5 | Pure Green   | 525            |      |    | 92.0  |                |
| KW3-567ABA    | Blue         | 470            |      |    | 50.0  |                |
| KW3-567AWA    | White        | x=0.30, y=0.31 |      |    | 260.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

# 0.80" Triple Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW3-801CRA    | Deep Red     | 630            | Gray | 20 | 34.0  | Common Cathode |
| KW3-801CAA    | Orange       | 605            |      |    | 35.0  |                |
| KW3-801CGA    | Yellow Green | 572            |      |    | 26.0  |                |
| KW3-801CGA-G5 | Pure Green   | 525            |      |    | 96.0  |                |
| KW3-801CBA    | Blue         | 470            |      |    | 56.0  |                |
| KW3-801CWA    | White        | x=0.30, y=0.31 |      |    | 270.0 | Common Anode   |
| KW3-801ARA    | Deep Red     | 630            |      |    | 34.0  |                |
| KW3-801AAA    | Orange       | 605            |      |    | 35.0  |                |
| KW3-801AGA    | Yellow Green | 572            |      |    | 26.0  |                |
| KW3-801AGA-G5 | Pure Green   | 525            |      |    | 96.0  |                |
| KW3-801ABA    | Blue         | 470            |      |    | 56.0  |                |
| KW3-801AWA    | White        | x=0.30, y=0.31 |      |    | 270.0 |                |



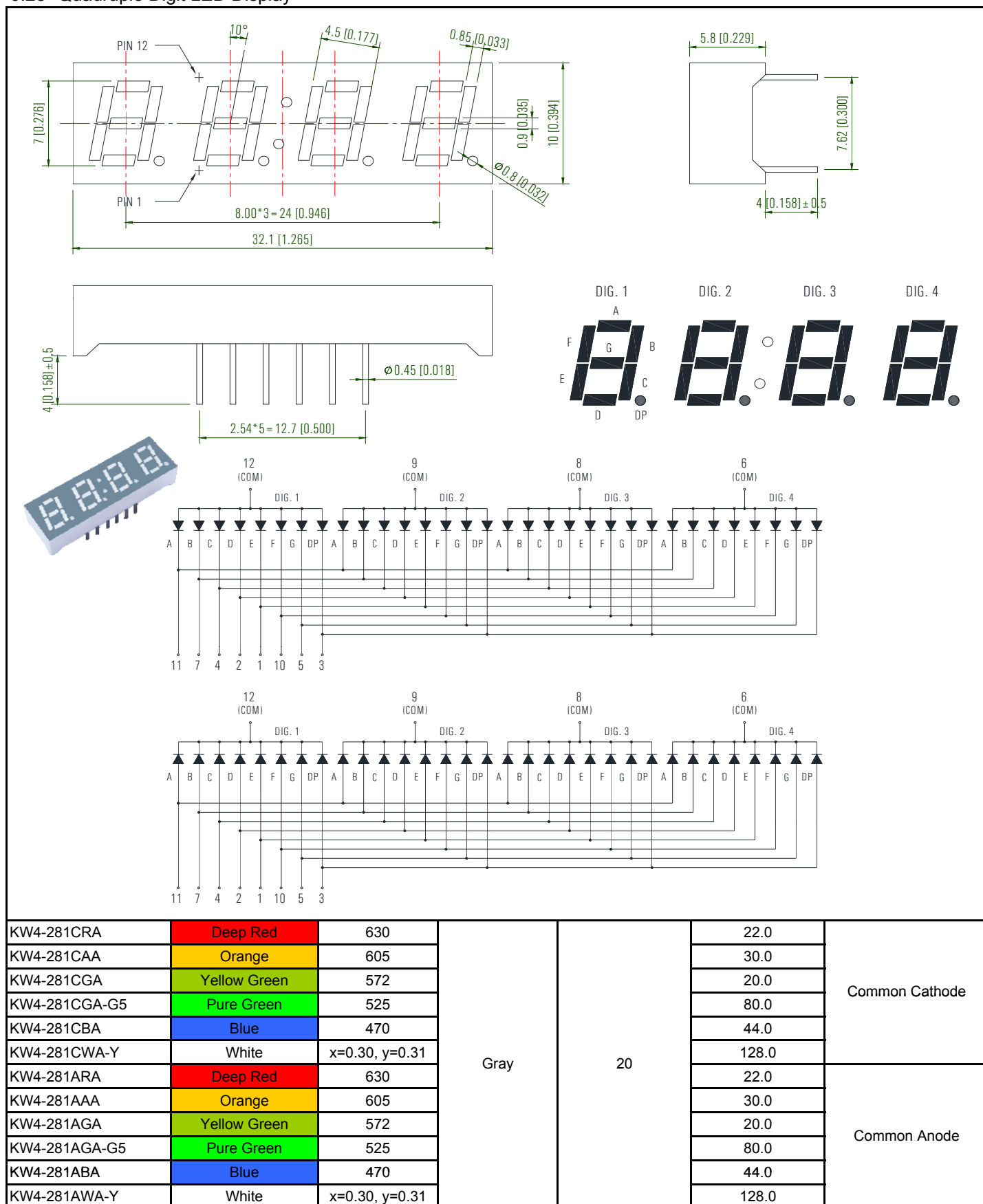
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.25" Quadruple Digit LED Display

|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW4-25DCRA    | Deep Red     | 630            | Gray | 20 | 20.0  | Common Cathode |
| KW4-25DCAA    | Orange       | 605            |      |    | 26.0  |                |
| KW4-25DCGA    | Yellow Green | 572            |      |    | 18.0  |                |
| KW4-25DCGA-G5 | Pure Green   | 525            |      |    | 72.0  |                |
| KW4-25DCBA    | Blue         | 470            |      |    | 40.0  |                |
| KW4-25DCWA-Y  | White        | x=0.30, y=0.31 |      |    | 120.0 | Common Anode   |
| KW4-25DARA    | Deep Red     | 630            |      |    | 20.0  |                |
| KW4-25DAAA    | Orange       | 605            |      |    | 26.0  |                |
| KW4-25DAGA    | Yellow Green | 572            |      |    | 18.0  |                |
| KW4-25DAGA-G5 | Pure Green   | 525            |      |    | 72.0  |                |
| KW4-25DABA    | Blue         | 470            |      |    | 40.0  |                |
| KW4-25DAWA-Y  | White        | x=0.30, y=0.31 |      |    | 120.0 |                |

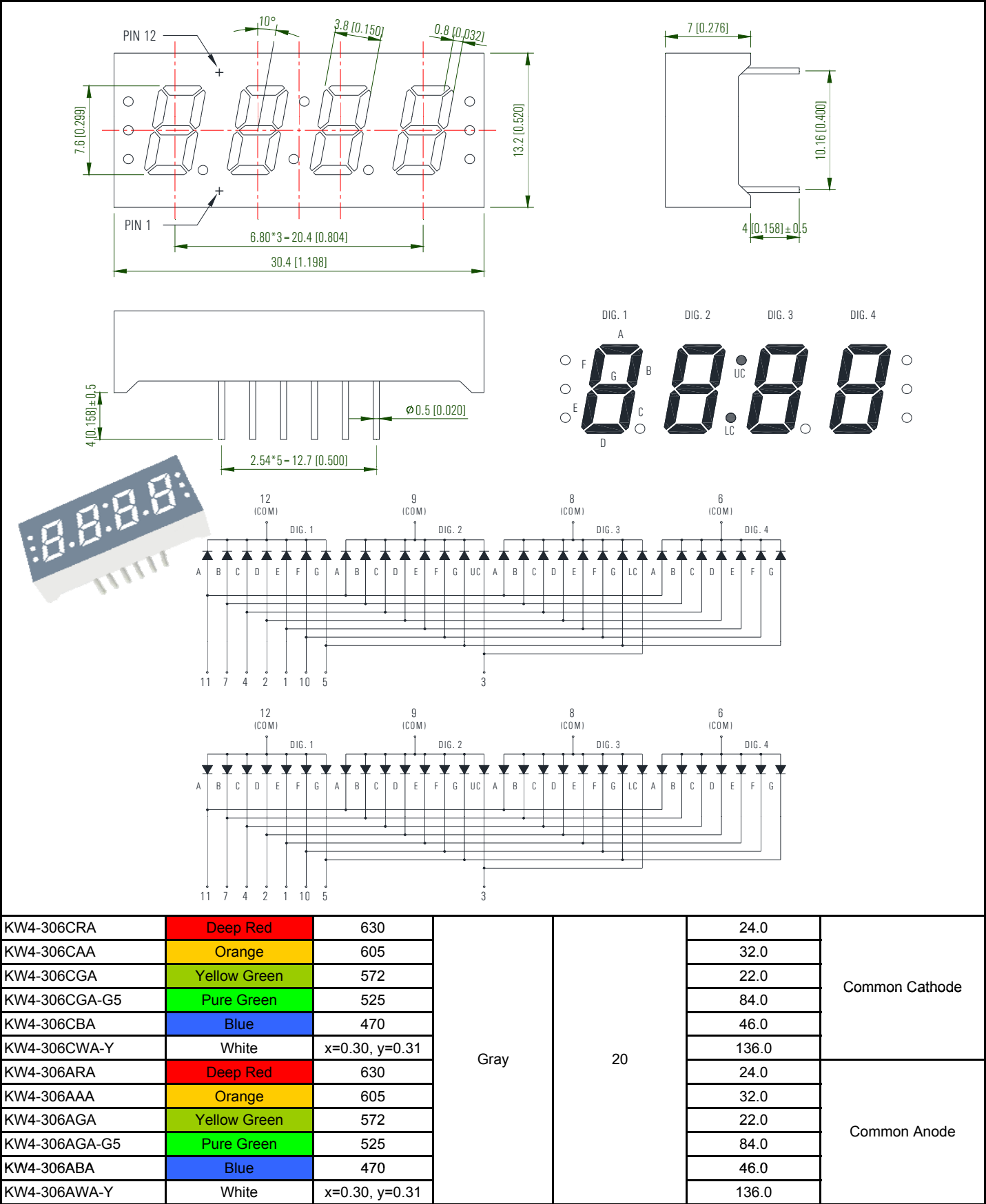
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

# 0.28" Quadruple Digit LED Display



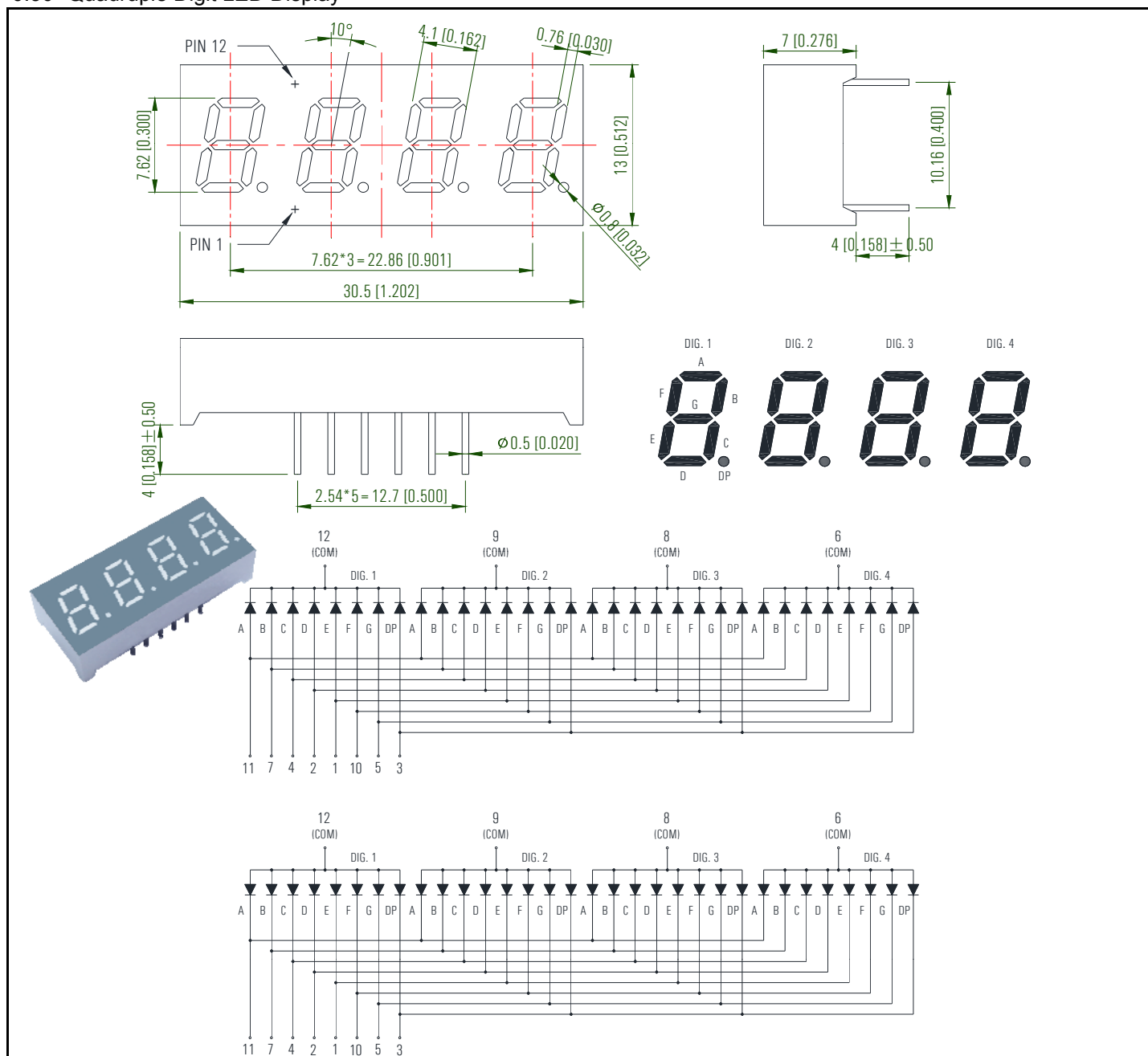
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | $I_F$ =mA                      | Typ. |                |

0.30" Quadruple Digit LED Display



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

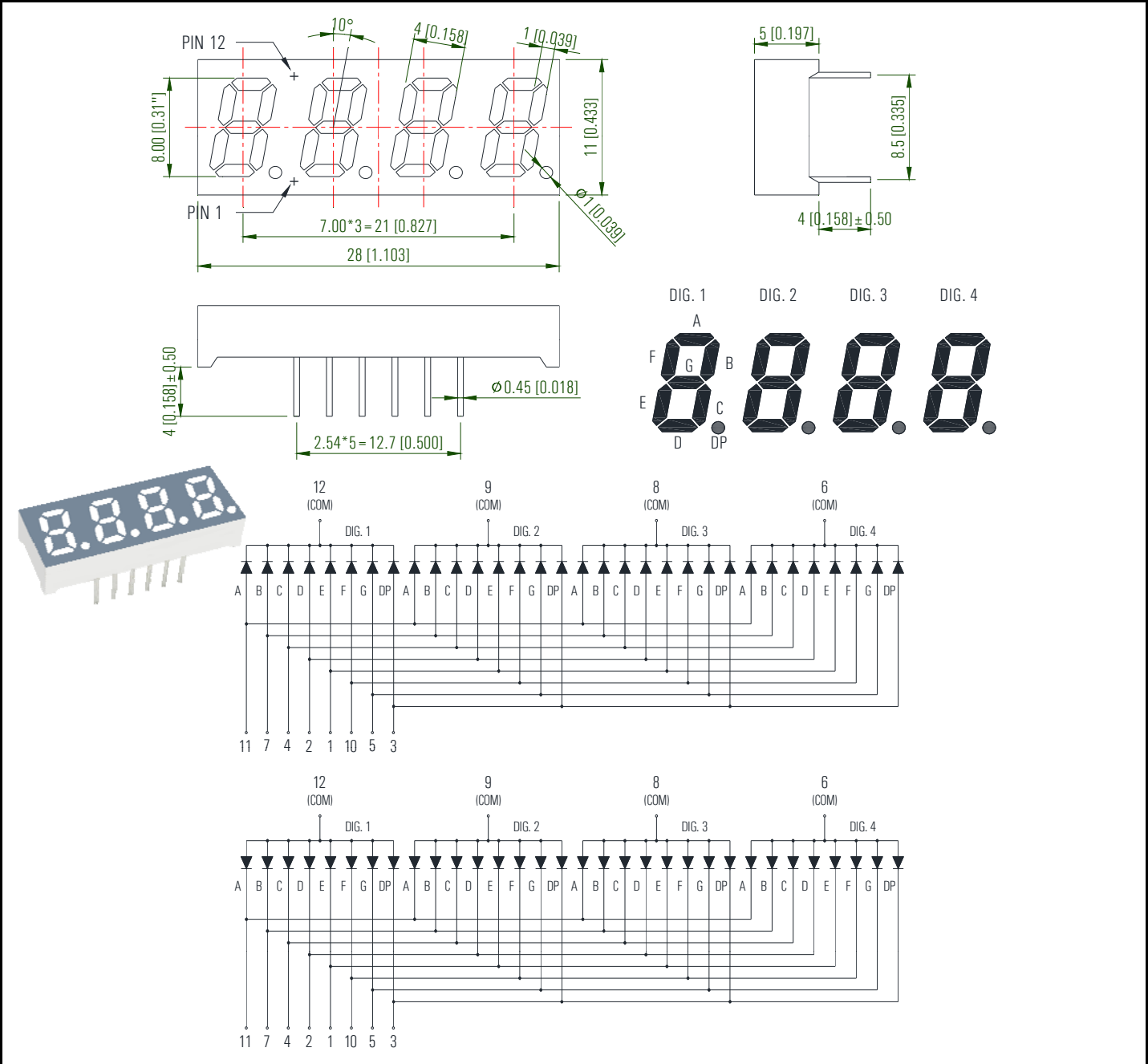
### 0.30" Quadruple Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW4-30GCRA    | Deep Red     | 630            | Gray | 20 | 24.0  | Common Cathode |
| KW4-30GCAA    | Orange       | 605            |      |    | 32.0  |                |
| KW4-30GCGA    | Yellow Green | 572            |      |    | 22.0  |                |
| KW4-30GCGA-G5 | Pure Green   | 525            |      |    | 84.0  |                |
| KW4-30GCBA    | Blue         | 470            |      |    | 46.0  |                |
| KW4-30GCWA-Y  | White        | x=0.30, y=0.31 |      |    | 136.0 | Common Anode   |
| KW4-30GARA    | Deep Red     | 630            |      |    | 24.0  |                |
| KW4-30GAAA    | Orange       | 605            |      |    | 32.0  |                |
| KW4-30GAGA    | Yellow Green | 572            |      |    | 22.0  |                |
| KW4-30GAGA-G5 | Pure Green   | 525            |      |    | 84.0  |                |
| KW4-30GABA    | Blue         | 470            |      |    | 46.0  |                |
| KW4-30GAWA-Y  | White        | x=0.30, y=0.31 |      |    | 136.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

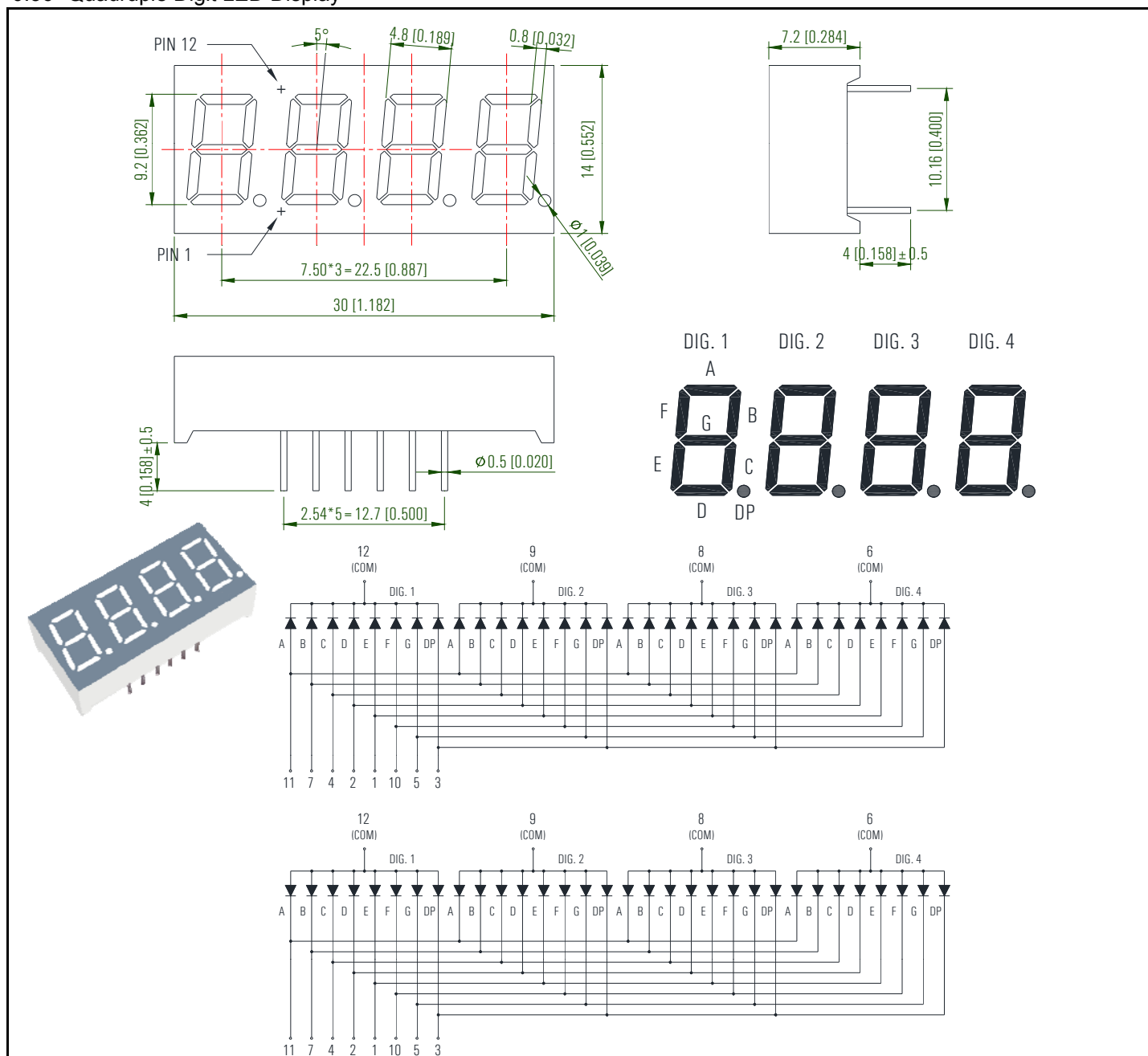
0.31" Quadruple Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW4-311CRA    | Deep Red     | 630            | Gray | 20 | 24.0  | Common Cathode |
| KW4-311CAA    | Orange       | 605            |      |    | 32.0  |                |
| KW4-311CGA    | Yellow Green | 572            |      |    | 22.0  |                |
| KW4-311CGA-G5 | Pure Green   | 525            |      |    | 84.0  |                |
| KW4-311CBA    | Blue         | 470            |      |    | 46.0  |                |
| KW4-311CWA-Y  | White        | x=0.30, y=0.31 |      |    | 136.0 | Common Anode   |
| KW4-311ARA    | Deep Red     | 630            |      |    | 24.0  |                |
| KW4-311AAA    | Orange       | 605            |      |    | 32.0  |                |
| KW4-311AGA    | Yellow Green | 572            |      |    | 22.0  |                |
| KW4-311AGA-G5 | Pure Green   | 525            |      |    | 84.0  |                |
| KW4-311ABA    | Blue         | 470            |      |    | 46.0  |                |
| KW4-311AWA-Y  | White        | x=0.30, y=0.31 |      |    | 136.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

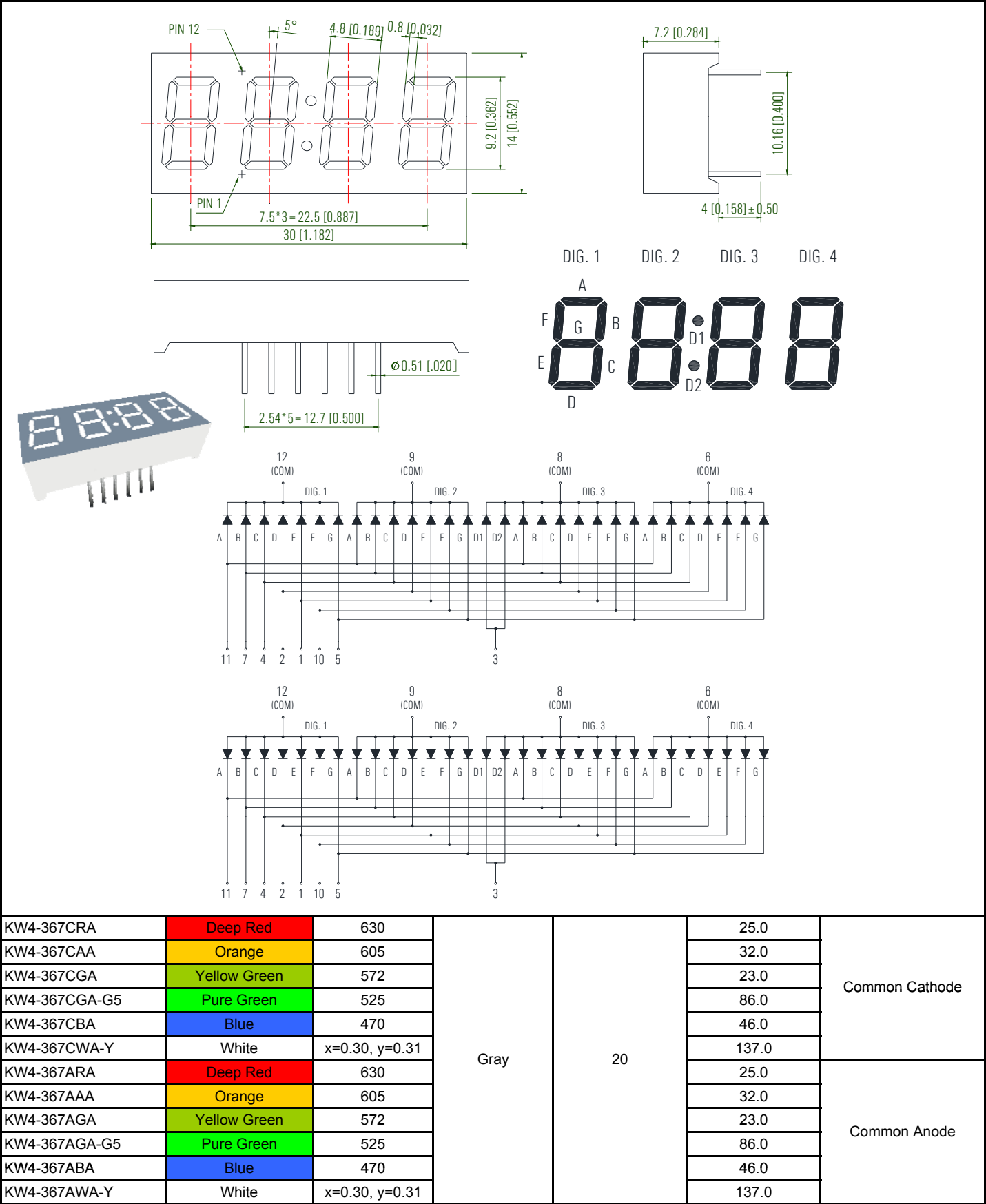
### 0.36" Quadruple Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW4-361CRA    | Deep Red     | 630            | Gray | 20 | 25.0  | Common Cathode |
| KW4-361CAA    | Orange       | 605            |      |    | 32.0  |                |
| KW4-361CGA    | Yellow Green | 572            |      |    | 23.0  |                |
| KW4-361CGA-G5 | Pure Green   | 525            |      |    | 86.0  |                |
| KW4-361CBA    | Blue         | 470            |      |    | 46.0  |                |
| KW4-361CWA-Y  | White        | x=0.30, y=0.31 |      |    | 137.0 | Common Anode   |
| KW4-361ARA    | Deep Red     | 630            |      |    | 25.0  |                |
| KW4-361AAA    | Orange       | 605            |      |    | 32.0  |                |
| KW4-361AGA    | Yellow Green | 572            |      |    | 23.0  |                |
| KW4-361AGA-G5 | Pure Green   | 525            |      |    | 86.0  |                |
| KW4-361ABA    | Blue         | 470            |      |    | 46.0  |                |
| KW4-361AWA-Y  | White        | x=0.30, y=0.31 |      |    | 137.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.36" Quadruple Digit LED Display



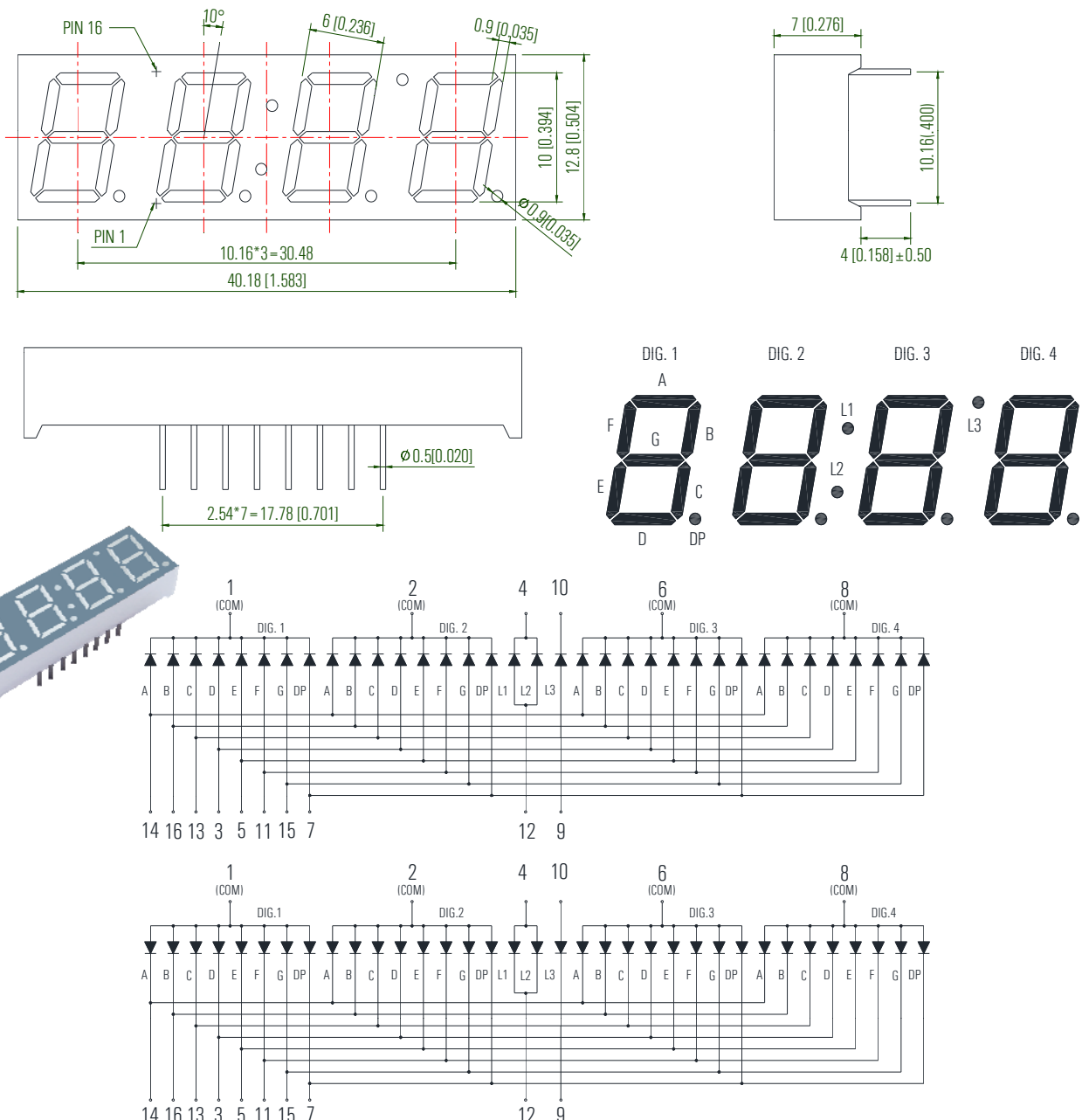
Technical drawing of the 4-digit LED display module. The drawing includes a top view showing the layout of the four digits (DIG. 1 to DIG. 4) with dimensions: 39.9 [1.572] total width, 14 [0.552] height, and 10.00\*3=30 [1.182] segment width. It also shows a side view with dimensions: 7 [0.276] top width, 11.3 [0.445] height, and 4 [0.158]±0.5 bottom width. A detailed view of the segment layout shows segments A, B, C, D, E, F, G, and DP. A photograph of the physical module is shown on the left. Two wiring diagrams are provided: one for common anode (COM) and one for common cathode (COM).

|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW4-391CRA    | Deep Red     | 630            | Gray | 20 | 26.0  | Common Cathode |
| KW4-391CAA    | Orange       | 605            |      |    | 32.0  |                |
| KW4-391CGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW4-391CGA-G5 | Pure Green   | 525            |      |    | 88.0  |                |
| KW4-391CBA    | Blue         | 470            |      |    | 47.0  |                |
| KW4-391CWA-Y  | White        | x=0.30, y=0.31 |      |    | 138.0 |                |
| KW4-391ARA    | Deep Red     | 630            |      |    | 26.0  | Common Anode   |
| KW4-391AAA    | Orange       | 605            |      |    | 32.0  |                |
| KW4-391AGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW4-391AGA-G5 | Pure Green   | 525            |      |    | 88.0  |                |
| KW4-391ABA    | Blue         | 470            |      |    | 47.0  |                |
| KW4-391AWA-Y  | White        | x=0.30, y=0.31 |      |    | 138.0 |                |



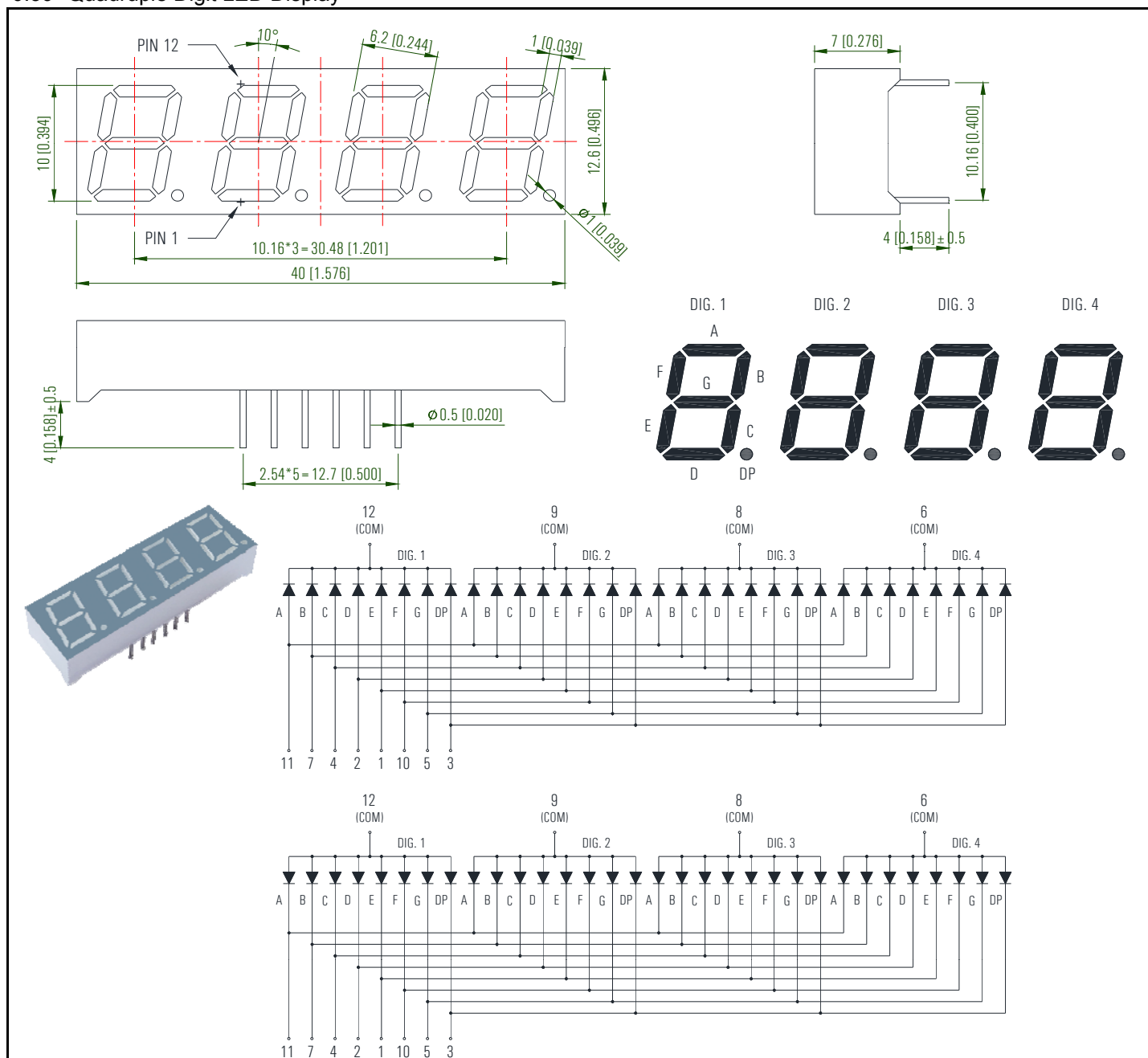
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

0.39" Quadruple Digit LED Display

|                                                                                     |              |                |      |    |       |                |
|-------------------------------------------------------------------------------------|--------------|----------------|------|----|-------|----------------|
|  |              |                |      |    |       |                |
| KW4-39DCRA                                                                          | Deep Red     | 630            | Gray | 20 | 26.0  | Common Cathode |
| KW4-39DCAA                                                                          | Orange       | 605            |      |    | 32.0  |                |
| KW4-39DCGA                                                                          | Yellow Green | 572            |      |    | 24.0  |                |
| KW4-39DCGA-G5                                                                       | Pure Green   | 525            |      |    | 88.0  |                |
| KW4-39DCBA                                                                          | Blue         | 470            |      |    | 47.0  |                |
| KW4-39DCWA-Y                                                                        | White        | x=0.30, y=0.31 |      |    | 138.0 | Common Anode   |
| KW4-39DARA                                                                          | Deep Red     | 630            |      |    | 26.0  |                |
| KW4-39DAAA                                                                          | Orange       | 605            |      |    | 32.0  |                |
| KW4-39DAGA                                                                          | Yellow Green | 572            |      |    | 24.0  |                |
| KW4-39DAGA-G5                                                                       | Pure Green   | 525            |      |    | 88.0  |                |
| KW4-39DABA                                                                          | Blue         | 470            |      |    | 47.0  |                |
| KW4-39DAWA-Y                                                                        | White        | x=0.30, y=0.31 |      |    | 138.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | $I_F$ =mA                      | Typ. |                |

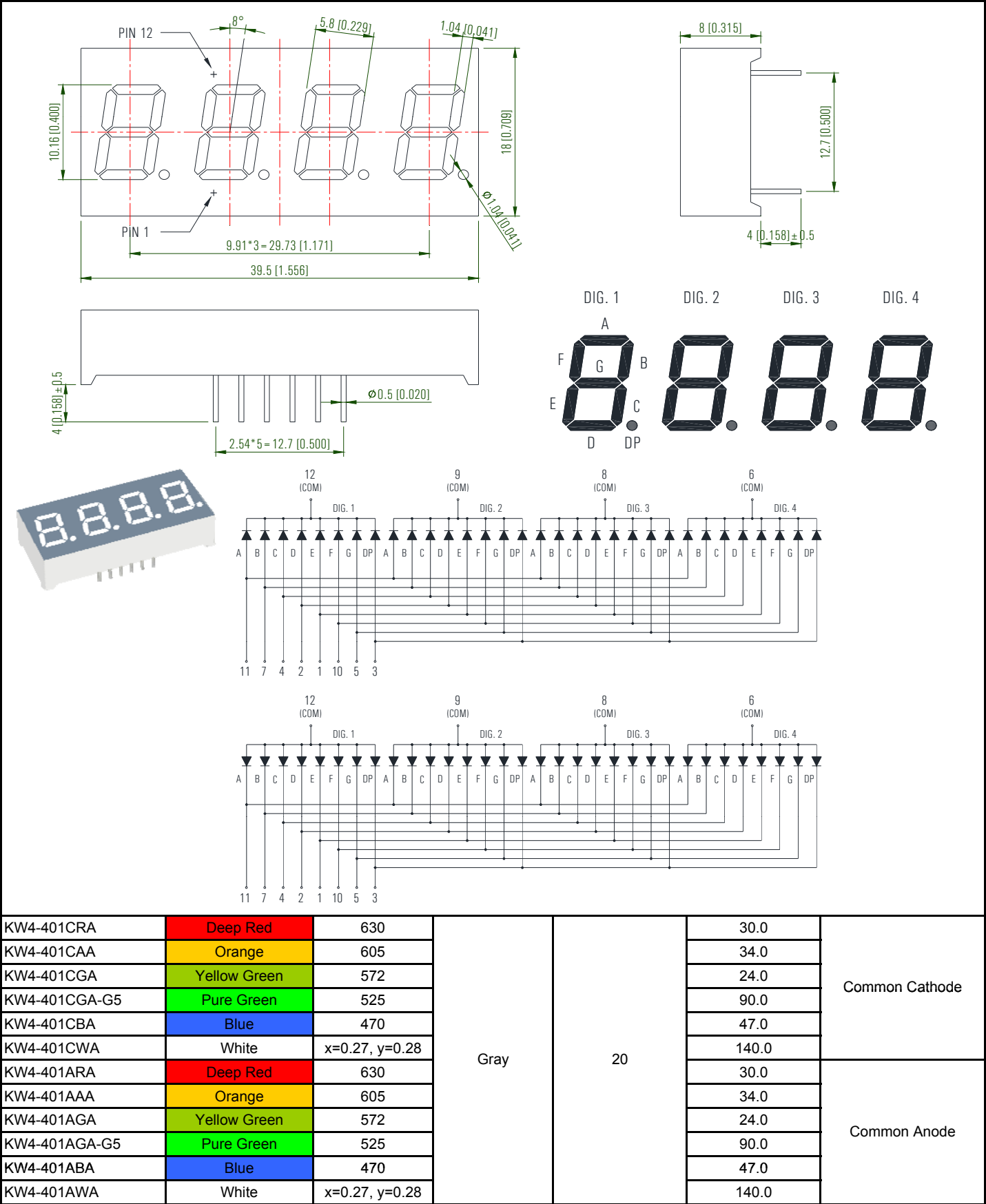
# 0.39" Quadruple Digit LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW4-39FCRA    | Deep Red     | 630            | Gray | 20 | 26.0  | Common Cathode |
| KW4-39FCAA    | Orange       | 605            |      |    | 32.0  |                |
| KW4-39FCGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW4-39FCGA-G5 | Pure Green   | 525            |      |    | 88.0  |                |
| KW4-39FCBA    | Blue         | 470            |      |    | 47.0  |                |
| KW4-39FCWA-Y  | White        | x=0.30, y=0.31 |      |    | 138.0 | Common Anode   |
| KW4-39FARA    | Deep Red     | 630            |      |    | 26.0  |                |
| KW4-39FAAA    | Orange       | 605            |      |    | 32.0  |                |
| KW4-39FAGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW4-39FAGA-G5 | Pure Green   | 525            |      |    | 88.0  |                |
| KW4-39FABA    | Blue         | 470            |      |    | 47.0  |                |
| KW4-39FAWA-Y  | White        | x=0.30, y=0.31 |      |    | 138.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.40" Quadruple Digit LED Display



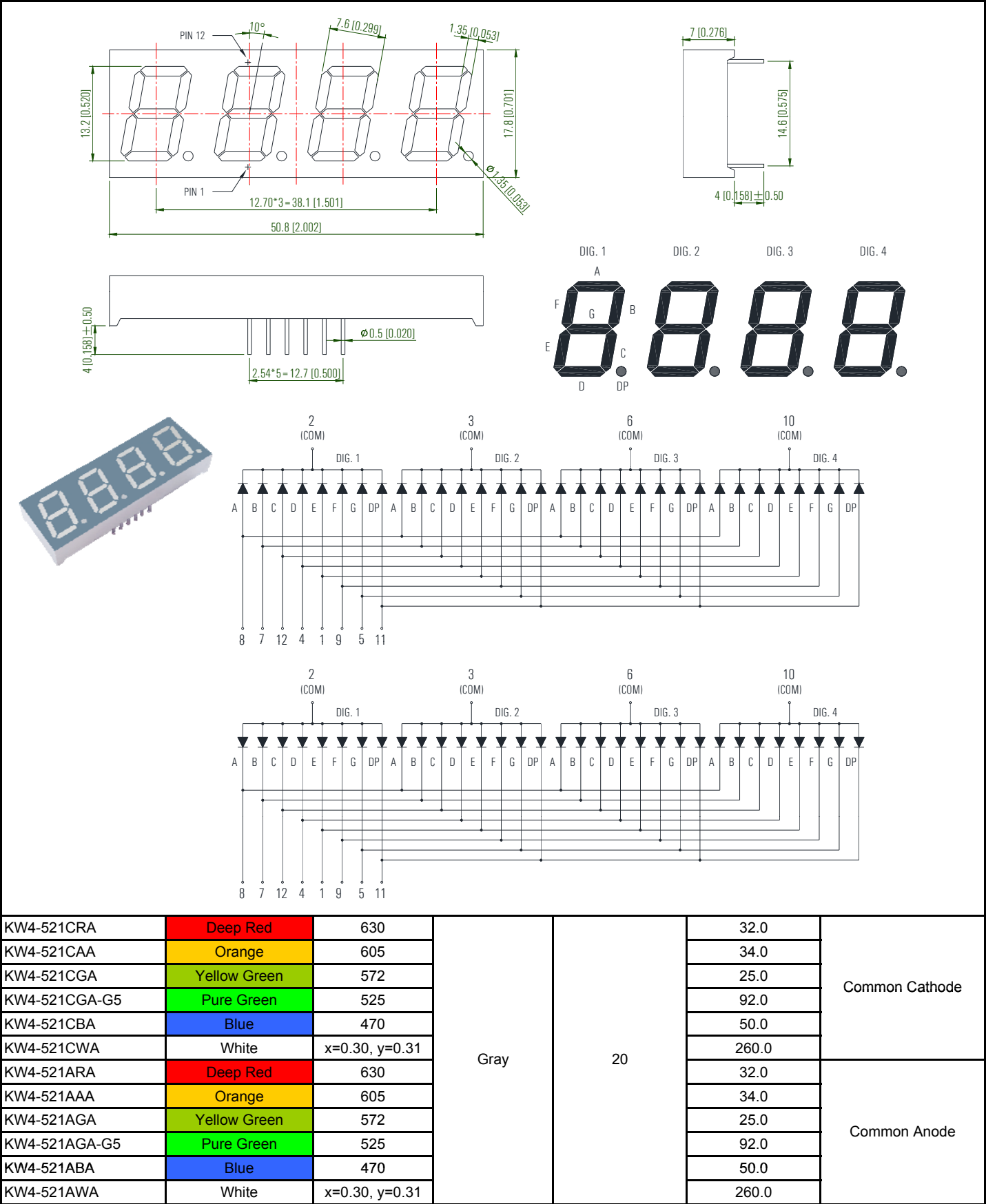
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

# 0.40" Quadruple Digit LED Display

|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
|               |              |                |      |    |       |                |
|               |              |                |      |    |       |                |
|               |              |                |      |    |       |                |
| KW4-402CRA    | Deep Red     | 630            | Gray | 20 | 30.0  | Common Cathode |
| KW4-402CAA    | Orange       | 605            |      |    | 34.0  |                |
| KW4-402CGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW4-402CGA-G5 | Pure Green   | 525            |      |    | 90.0  |                |
| KW4-402CBA    | Blue         | 470            |      |    | 47.0  |                |
| KW4-402CWA    | White        | x=0.27, y=0.28 |      |    | 140.0 | Common Anode   |
| KW4-402ARA    | Deep Red     | 630            |      |    | 30.0  |                |
| KW4-402AAA    | Orange       | 605            |      |    | 34.0  |                |
| KW4-402AGA    | Yellow Green | 572            |      |    | 24.0  |                |
| KW4-402AGA-G5 | Pure Green   | 525            |      |    | 90.0  |                |
| KW4-402ABA    | Blue         | 470            |      |    | 47.0  |                |
| KW4-402AWA    | White        | x=0.27, y=0.28 |      |    | 140.0 |                |

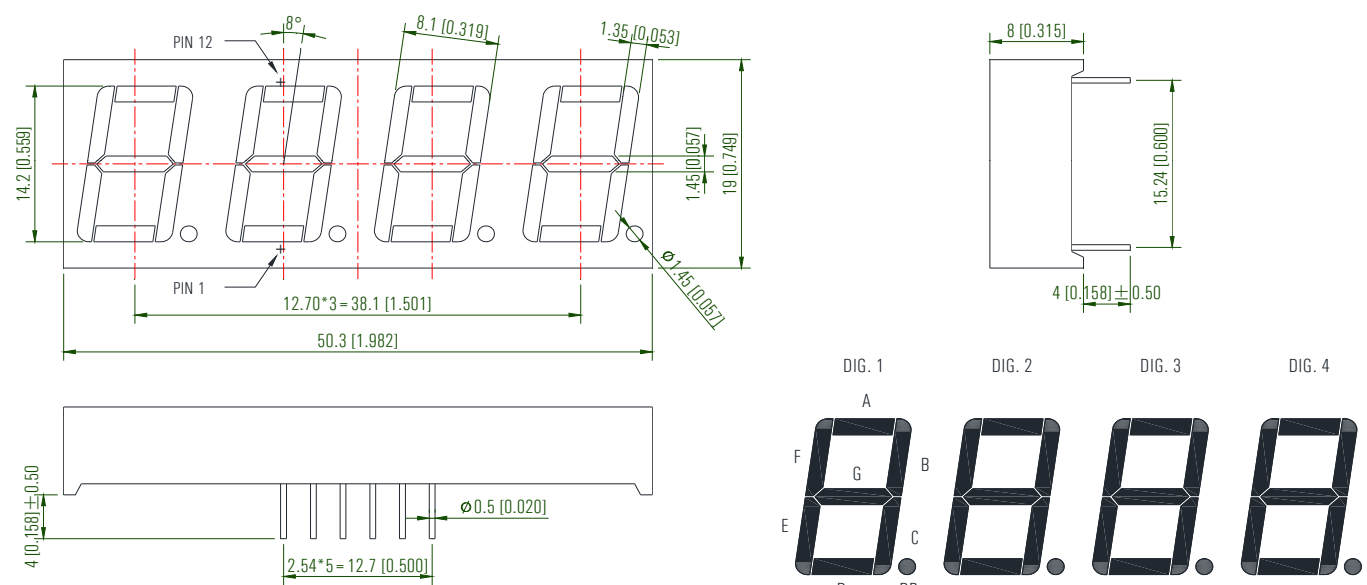
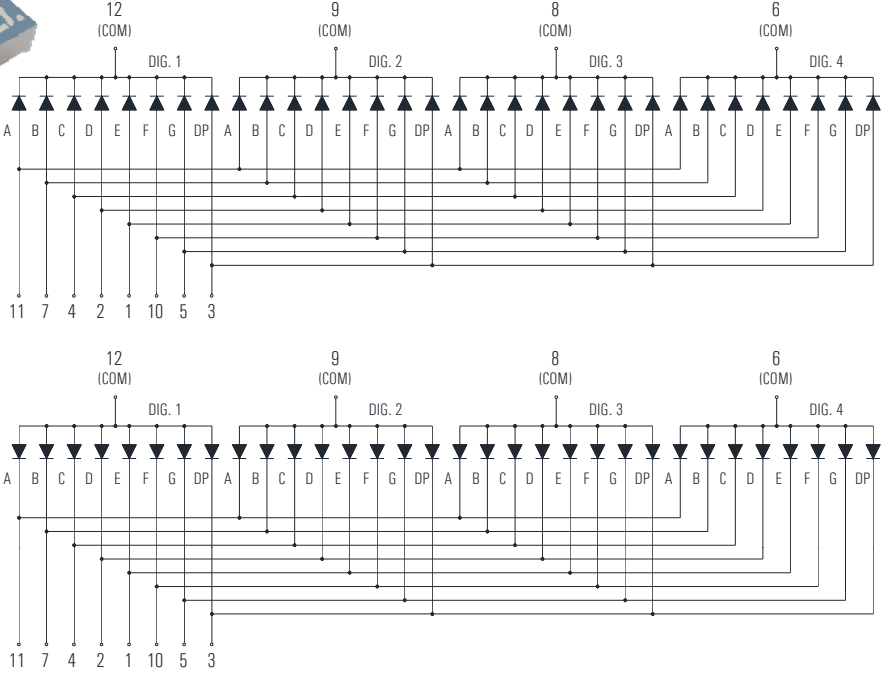
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | $I_F$ =mA                      | Typ. |                |

0.52" Quadruple Digit LED Display



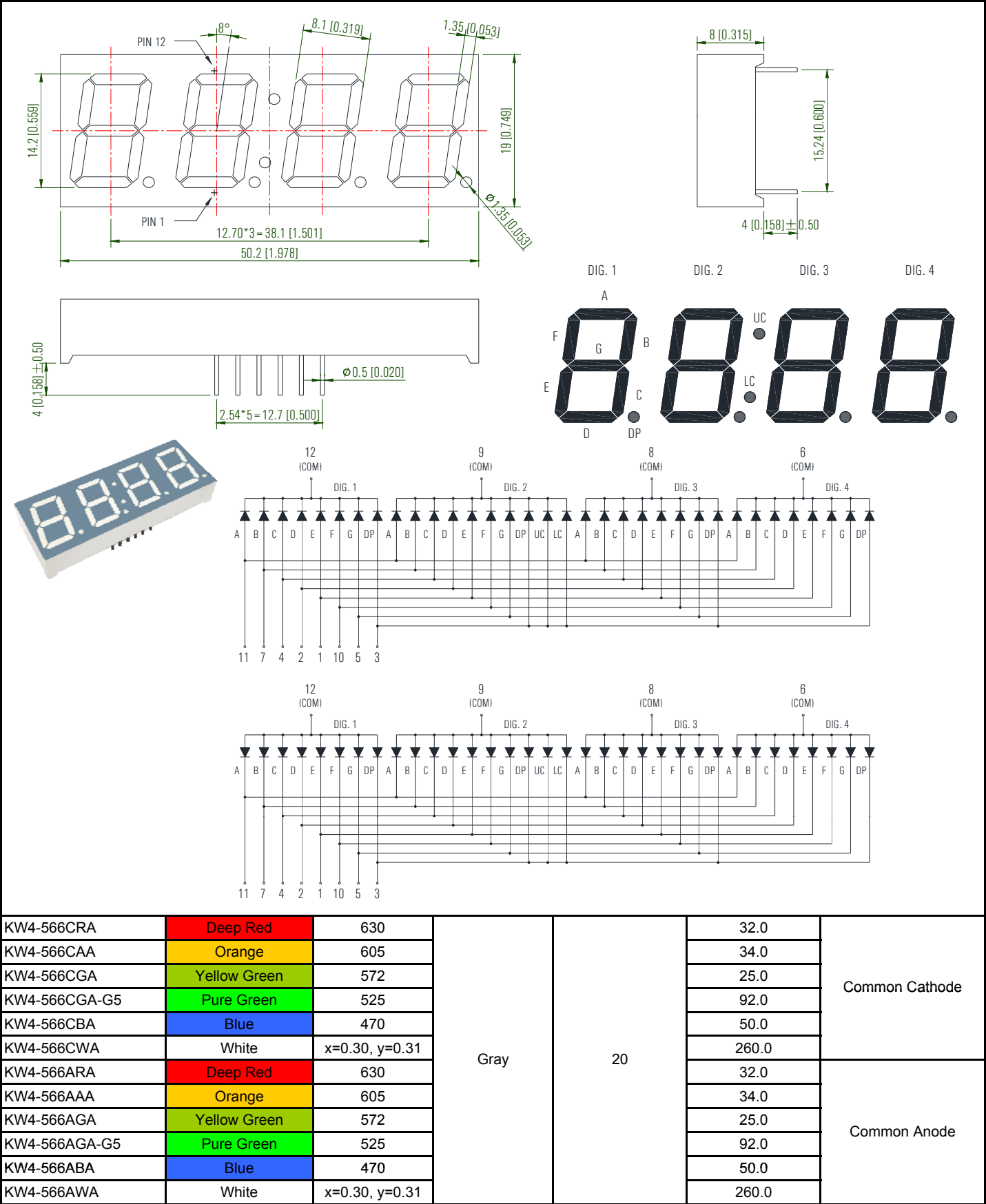
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

# 0.56" Quadruple Digit LED Display

|                                                                                     |              |                |      |    |       |                |
|-------------------------------------------------------------------------------------|--------------|----------------|------|----|-------|----------------|
|   |              |                |      |    |       |                |
|  |              |                |      |    |       |                |
| KW4-561CRA                                                                          | Deep Red     | 630            | Gray | 20 | 32.0  | Common Cathode |
| KW4-561CAA                                                                          | Orange       | 605            |      |    | 34.0  |                |
| KW4-561CGA                                                                          | Yellow Green | 572            |      |    | 25.0  |                |
| KW4-561CGA-G5                                                                       | Pure Green   | 525            |      |    | 92.0  |                |
| KW4-561CBA                                                                          | Blue         | 470            |      |    | 50.0  |                |
| KW4-561CWA                                                                          | White        | x=0.30, y=0.31 |      |    | 260.0 | Common Anode   |
| KW4-561ARA                                                                          | Deep Red     | 630            |      |    | 32.0  |                |
| KW4-561AAA                                                                          | Orange       | 605            |      |    | 34.0  |                |
| KW4-561AGA                                                                          | Yellow Green | 572            |      |    | 25.0  |                |
| KW4-561AGA-G5                                                                       | Pure Green   | 525            |      |    | 92.0  |                |
| KW4-561ABA                                                                          | Blue         | 470            |      |    | 50.0  |                |
| KW4-561AWA                                                                          | White        | x=0.30, y=0.31 |      |    | 260.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.56" Quadruple Digit LED Display



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | $I_F$ =mA                      | Typ. |                |

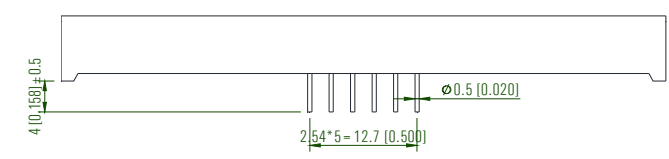
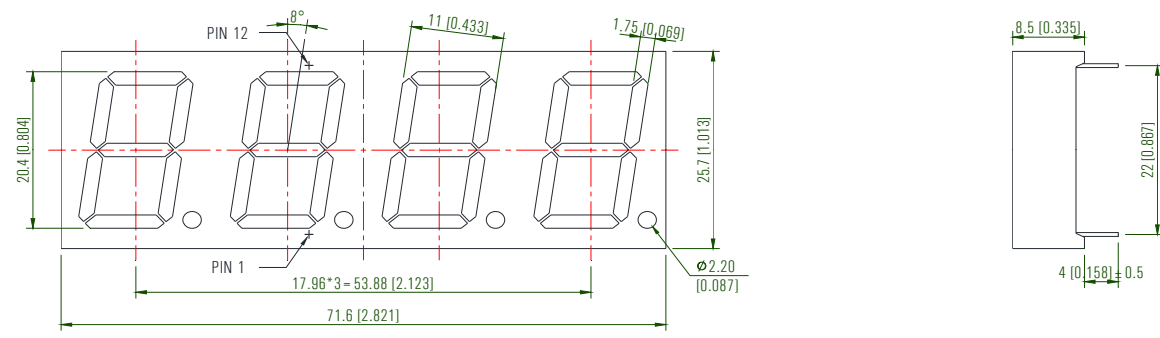
# 0.56" Quadruple Digit LED Display

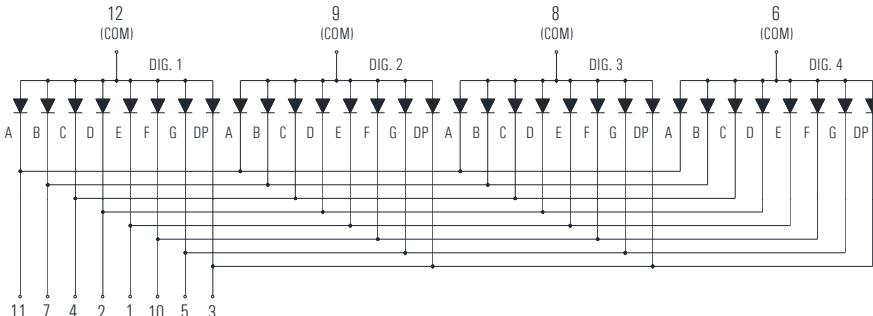
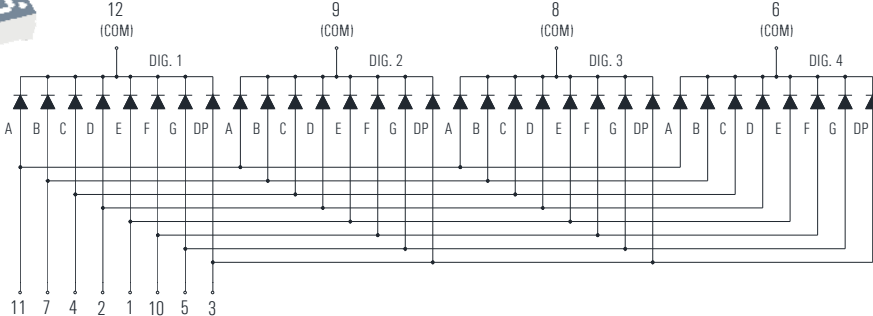
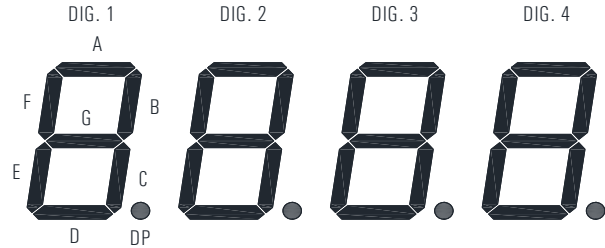
|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
|               |              |                |      |    |       |                |
|               |              |                |      |    |       |                |
|               |              |                |      |    |       |                |
| KW4-56NCRA    | Deep Red     | 630            | Gray | 20 | 32.0  | Common Cathode |
| KW4-56NCAA    | Orange       | 605            |      |    | 34.0  |                |
| KW4-56NCGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KW4-56NCGA-G5 | Pure Green   | 525            |      |    | 92.0  |                |
| KW4-56NCBA    | Blue         | 470            |      |    | 50.0  |                |
| KW4-56NCWA    | White        | x=0.30, y=0.31 |      |    | 260.0 | Common Anode   |
| KW4-56NARA    | Deep Red     | 630            |      |    | 32.0  |                |
| KW4-56NAAA    | Orange       | 605            |      |    | 34.0  |                |
| KW4-56NAGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KW4-56NAGA-G5 | Pure Green   | 525            |      |    | 92.0  |                |
| KW4-56NABA    | Blue         | 470            |      |    | 50.0  |                |
| KW4-56NAWA    | White        | x=0.30, y=0.31 |      |    | 260.0 |                |



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.80" Quadruple Digit LED Display





|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KW4-802CRA    | Deep Red     | 630            | Gray | 20 | 36.0  | Common Cathode |
| KW4-802CAA    | Orange       | 605            |      |    | 36.0  |                |
| KW4-802CGA    | Yellow Green | 572            |      |    | 26.0  |                |
| KW4-802CGA-G5 | Pure Green   | 525            |      |    | 100.0 |                |
| KW4-802CBA    | Blue         | 470            |      |    | 56.0  |                |
| KW4-802CWA    | White        | x=0.30, y=0.31 |      |    | 270.0 | Common Anode   |
| KW4-802ARA    | Deep Red     | 630            |      |    | 36.0  |                |
| KW4-802AAA    | Orange       | 605            |      |    | 36.0  |                |
| KW4-802AGA    | Yellow Green | 572            |      |    | 26.0  |                |
| KW4-802AGA-G5 | Pure Green   | 525            |      |    | 100.0 |                |
| KW4-802ABA    | Blue         | 470            |      |    | 56.0  |                |
| KW4-802AWA    | White        | x=0.30, y=0.31 |      |    | 270.0 |                |

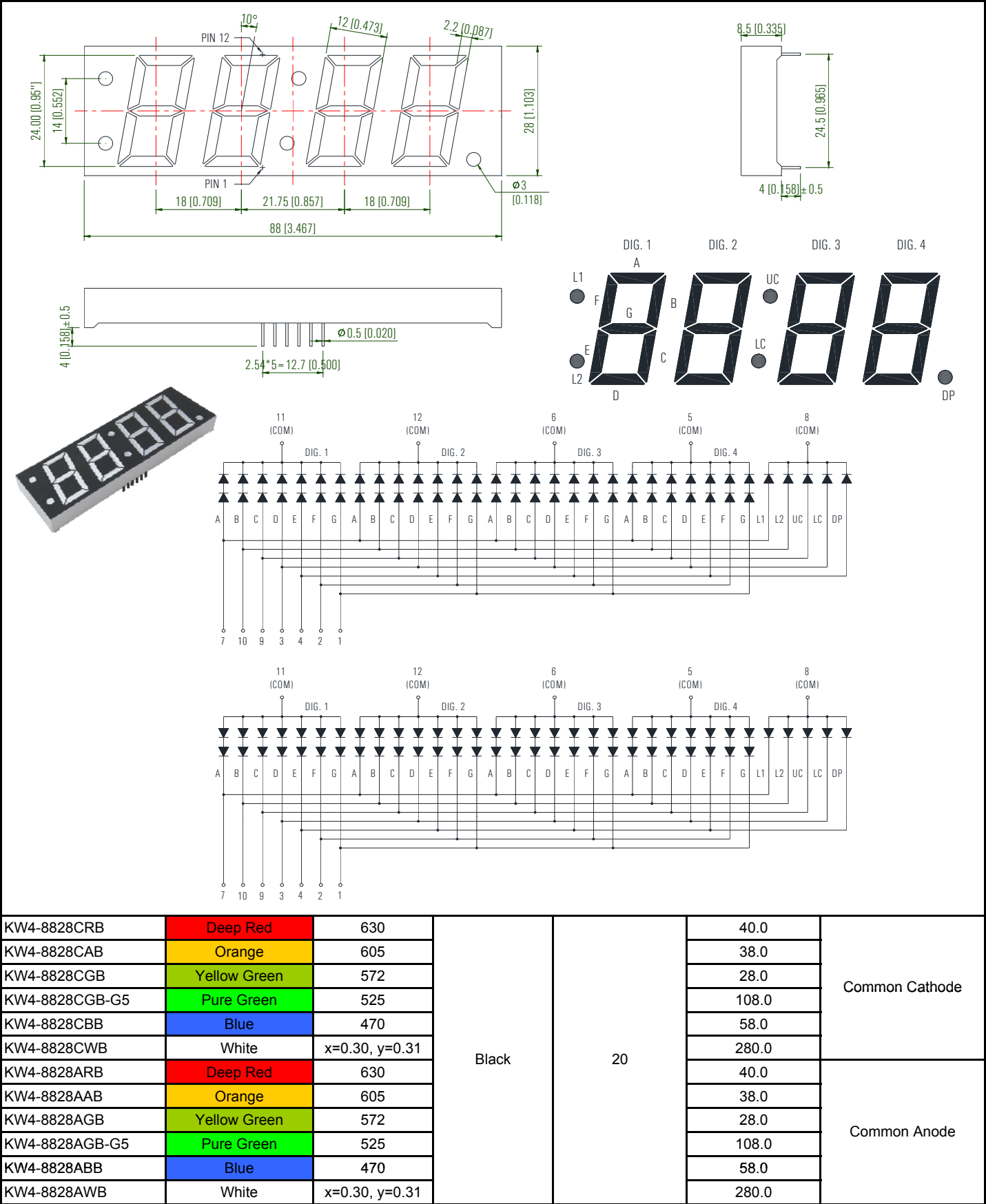
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

# 0.80" Quadruple Digit LED Display

|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
|               |              |                |      |    |       |                |
|               |              |                |      |    |       |                |
| KW4-804CRA    | Deep Red     | 630            | Gray | 20 | 36.0  | Common Cathode |
| KW4-804CAA    | Orange       | 605            |      |    | 36.0  |                |
| KW4-804CGA    | Yellow Green | 572            |      |    | 26.0  |                |
| KW4-804CGA-G5 | Pure Green   | 525            |      |    | 100.0 |                |
| KW4-804CBA    | Blue         | 470            |      |    | 56.0  |                |
| KW4-804CWA    | White        | x=0.30, y=0.31 |      |    | 270.0 | Common Anode   |
| KW4-804ARA    | Deep Red     | 630            |      |    | 36.0  |                |
| KW4-804AAA    | Orange       | 605            |      |    | 36.0  |                |
| KW4-804AGA    | Yellow Green | 572            |      |    | 26.0  |                |
| KW4-804AGA-G5 | Pure Green   | 525            |      |    | 100.0 |                |
| KW4-804ABA    | Blue         | 470            |      |    | 56.0  |                |
| KW4-804AWA    | White        | x=0.30, y=0.31 |      |    | 270.0 |                |

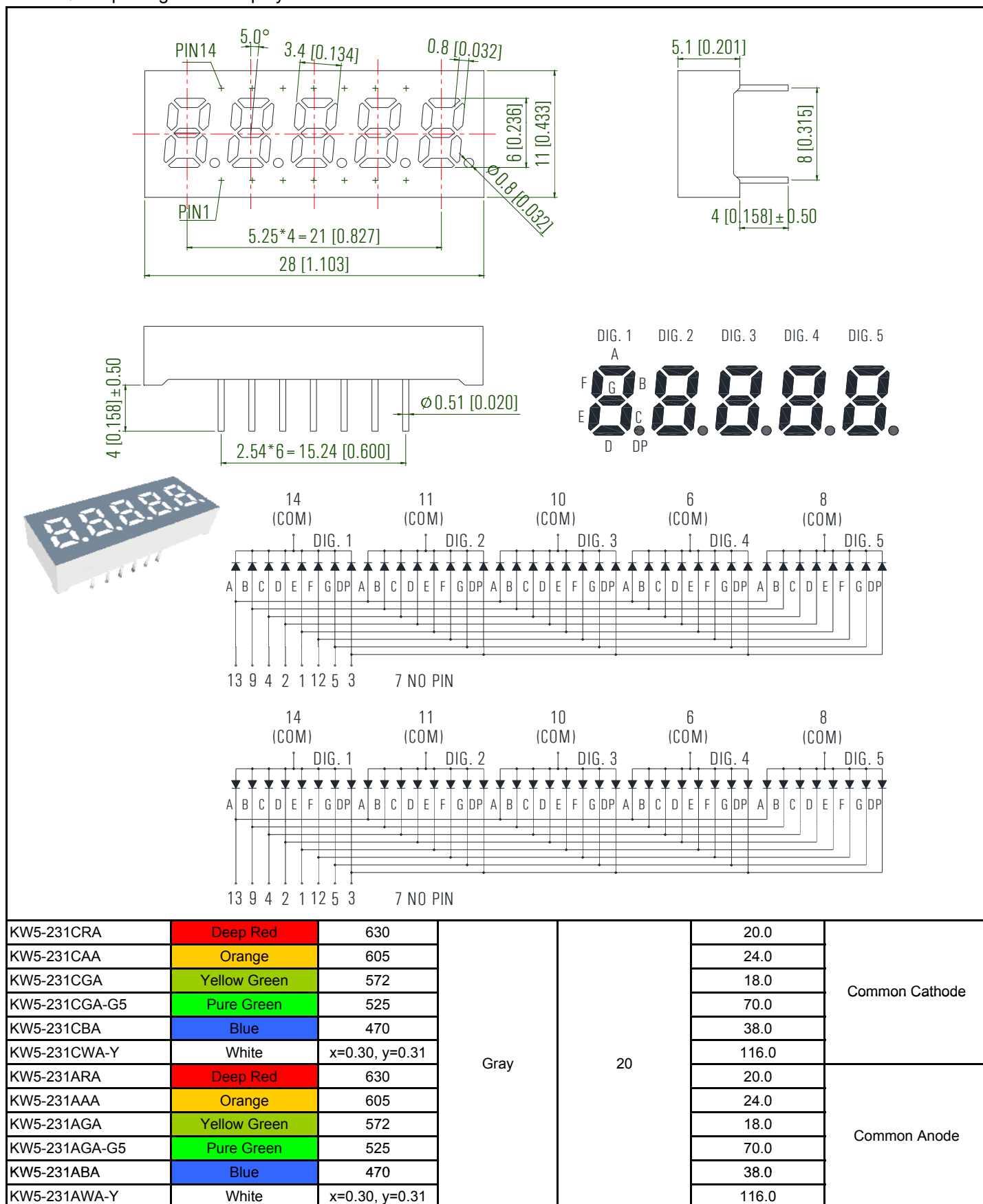
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.94" Quadruple Digit LED Display



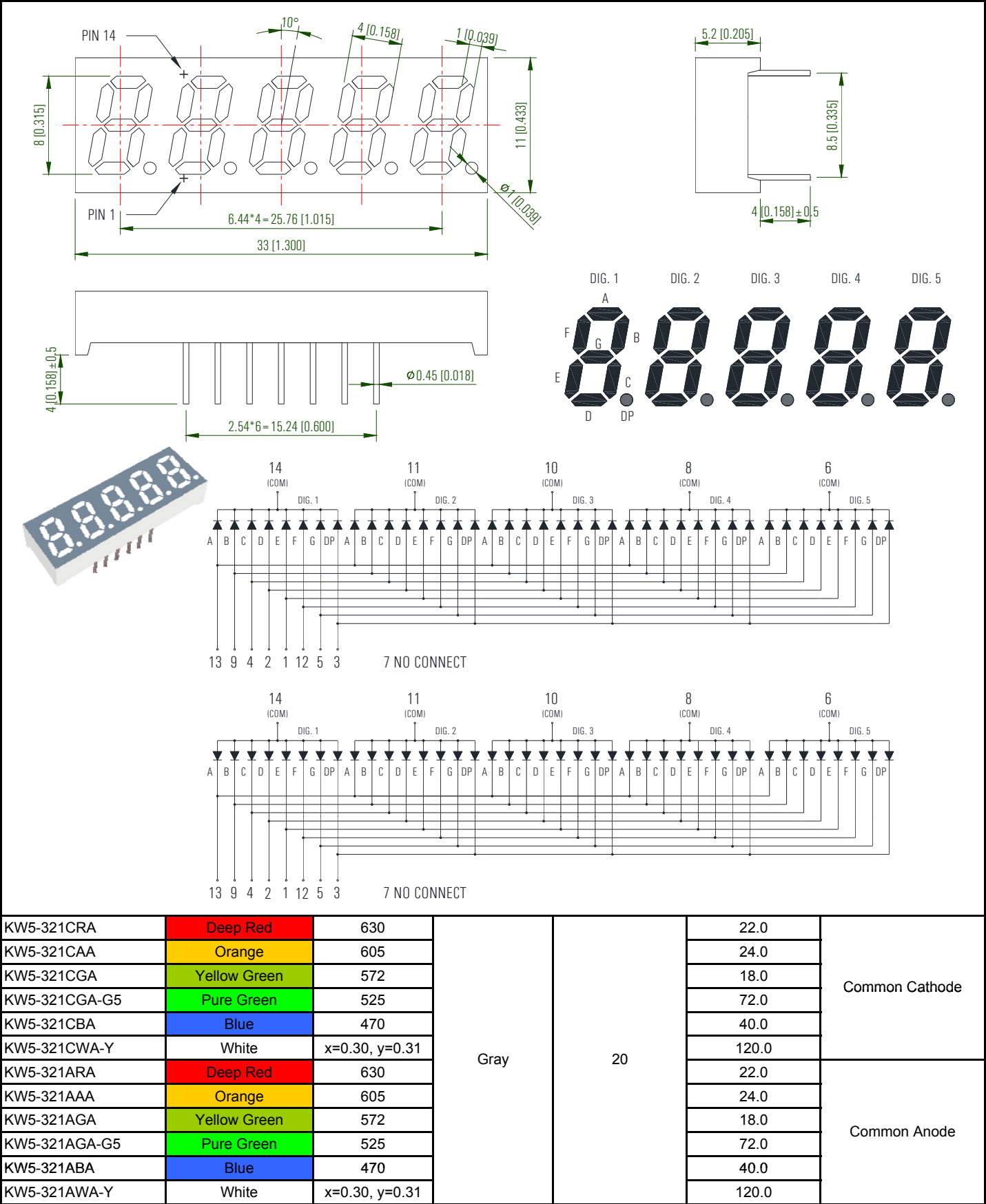
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

0.23" Quintuple Digit LED Display



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.32" Quintuple Digit LED Display



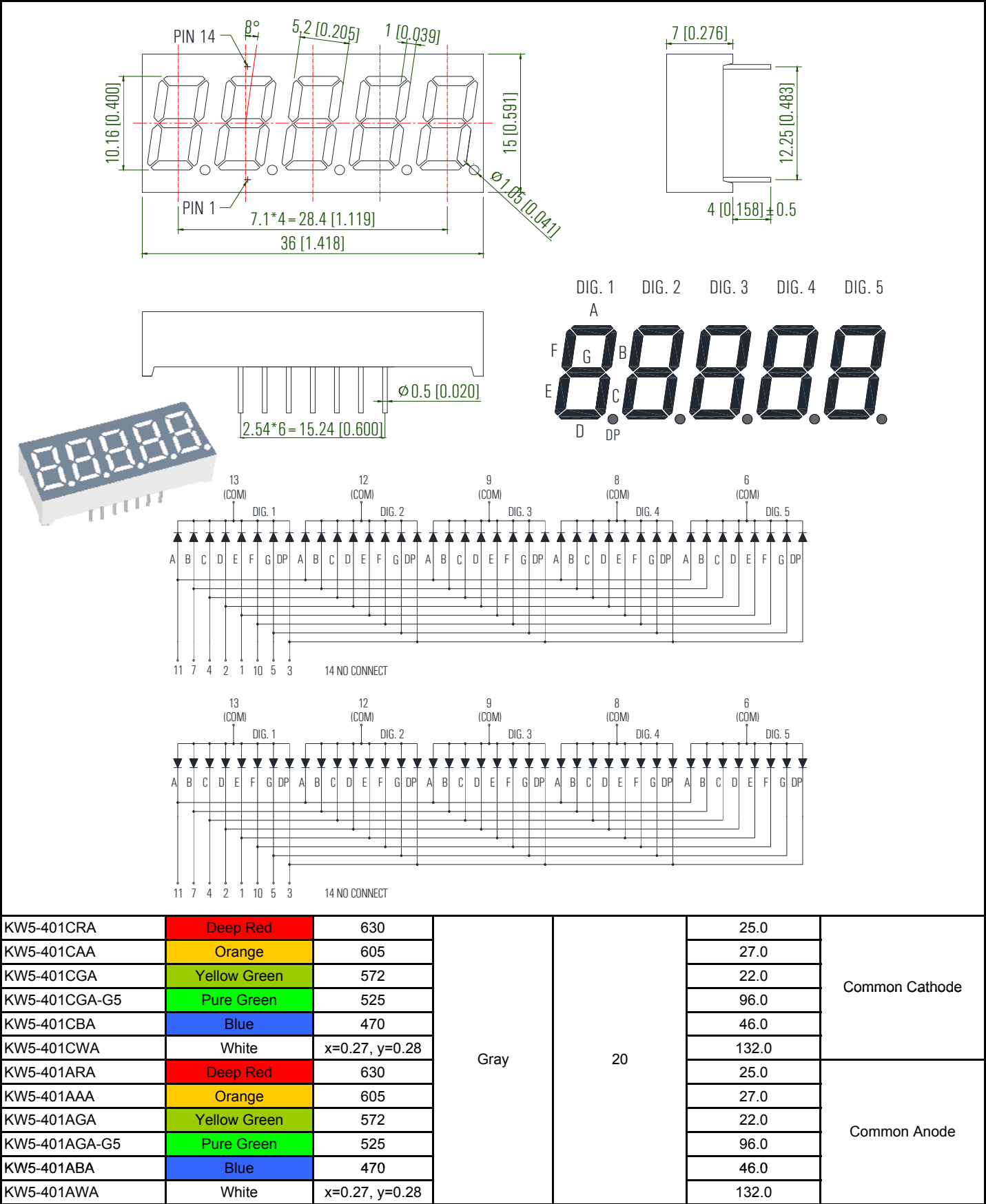
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

0.36" Quintuple Digit LED Display

|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
|               |              |                |      |    |       |                |
|               |              |                |      |    |       |                |
|               |              |                |      |    |       |                |
| KW5-361CRA    | Deep Red     | 630            | Gray | 20 | 24.0  | Common Cathode |
| KW5-361CAA    | Orange       | 605            |      |    | 26.0  |                |
| KW5-361CGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KW5-361CGA-G5 | Pure Green   | 525            |      |    | 92.0  |                |
| KW5-361CBA    | Blue         | 470            |      |    | 44.0  |                |
| KW5-361CWA-Y  | White        | x=0.30, y=0.31 |      |    | 128.0 |                |
| KW5-361ARA    | Deep Red     | 630            |      |    | 24.0  | Common Anode   |
| KW5-361AAA    | Orange       | 605            |      |    | 26.0  |                |
| KW5-361AGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KW5-361AGA-G5 | Pure Green   | 525            |      |    | 92.0  |                |
| KW5-361ABA    | Blue         | 470            |      |    | 44.0  |                |
| KW5-361AWA-Y  | White        | x=0.30, y=0.31 |      |    | 128.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.40" Quintuple Digit LED Display



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

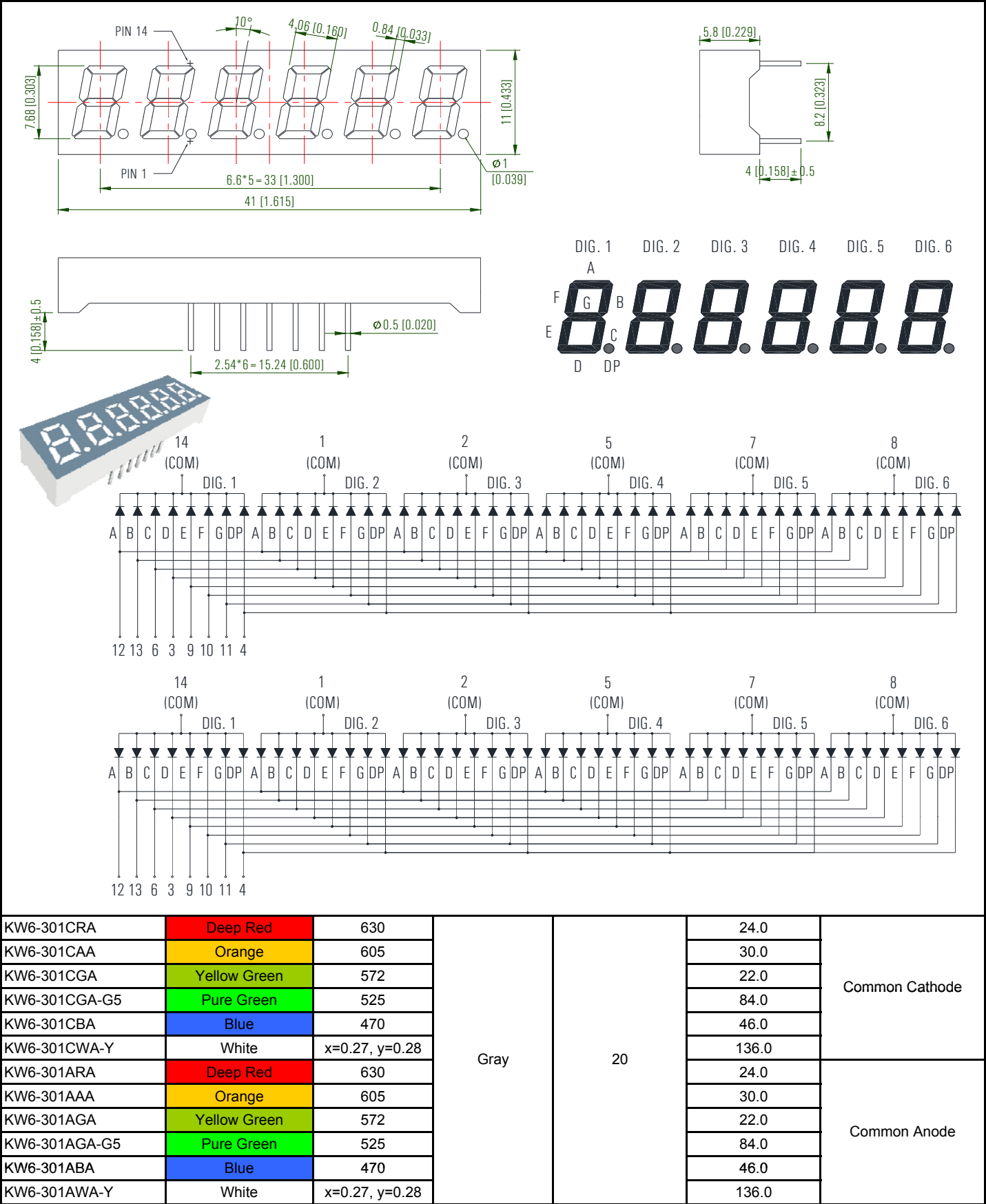
# 0.56" Quintuple Digit LED Display

|               |              |                |       |    |       |                |
|---------------|--------------|----------------|-------|----|-------|----------------|
|               |              |                |       |    |       |                |
|               |              |                |       |    |       |                |
|               |              |                |       |    |       |                |
| KW5-561CRB    | Deep Red     | 630            | Black | 20 | 32.0  | Common Cathode |
| KW5-561CAB    | Orange       | 605            |       |    | 34.0  |                |
| KW5-561CGB    | Yellow Green | 572            |       |    | 25.0  |                |
| KW5-561CGB-G5 | Pure Green   | 525            |       |    | 92.0  |                |
| KW5-561CBB    | Blue         | 470            |       |    | 50.0  |                |
| KW5-561CWB    | White        | x=0.30, y=0.31 |       |    | 260.0 | Common Anode   |
| KW5-561ARB    | Deep Red     | 630            |       |    | 32.0  |                |
| KW5-561AAB    | Orange       | 605            |       |    | 34.0  |                |
| KW5-561AGB    | Yellow Green | 572            |       |    | 25.0  |                |
| KW5-561AGB-G5 | Pure Green   | 525            |       |    | 92.0  |                |
| KW5-561ABB    | Blue         | 470            |       |    | 50.0  |                |
| KW5-561AWB    | White        | x=0.30, y=0.31 |       |    | 260.0 |                |



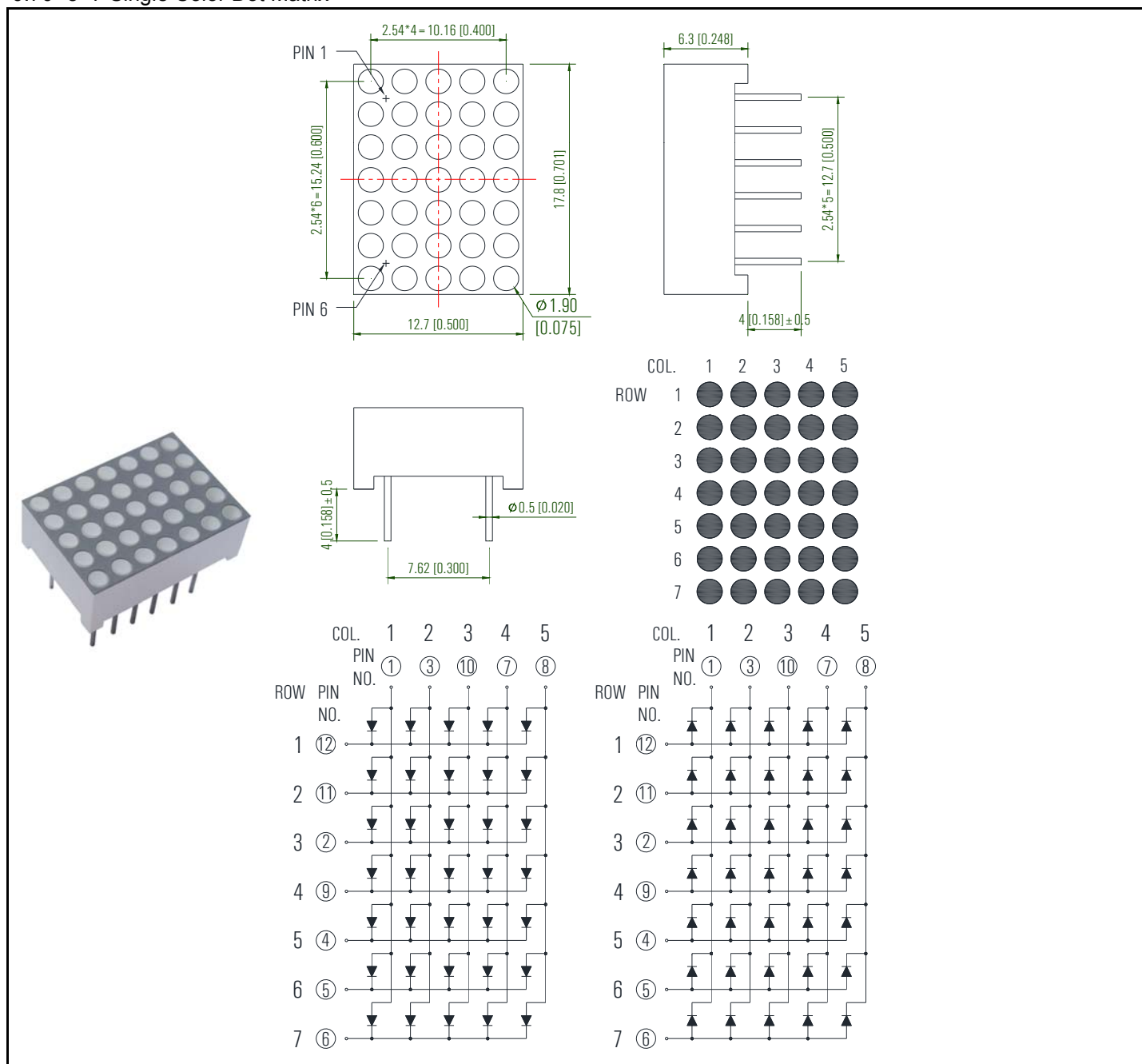
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.30" Six Digit LED Display



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

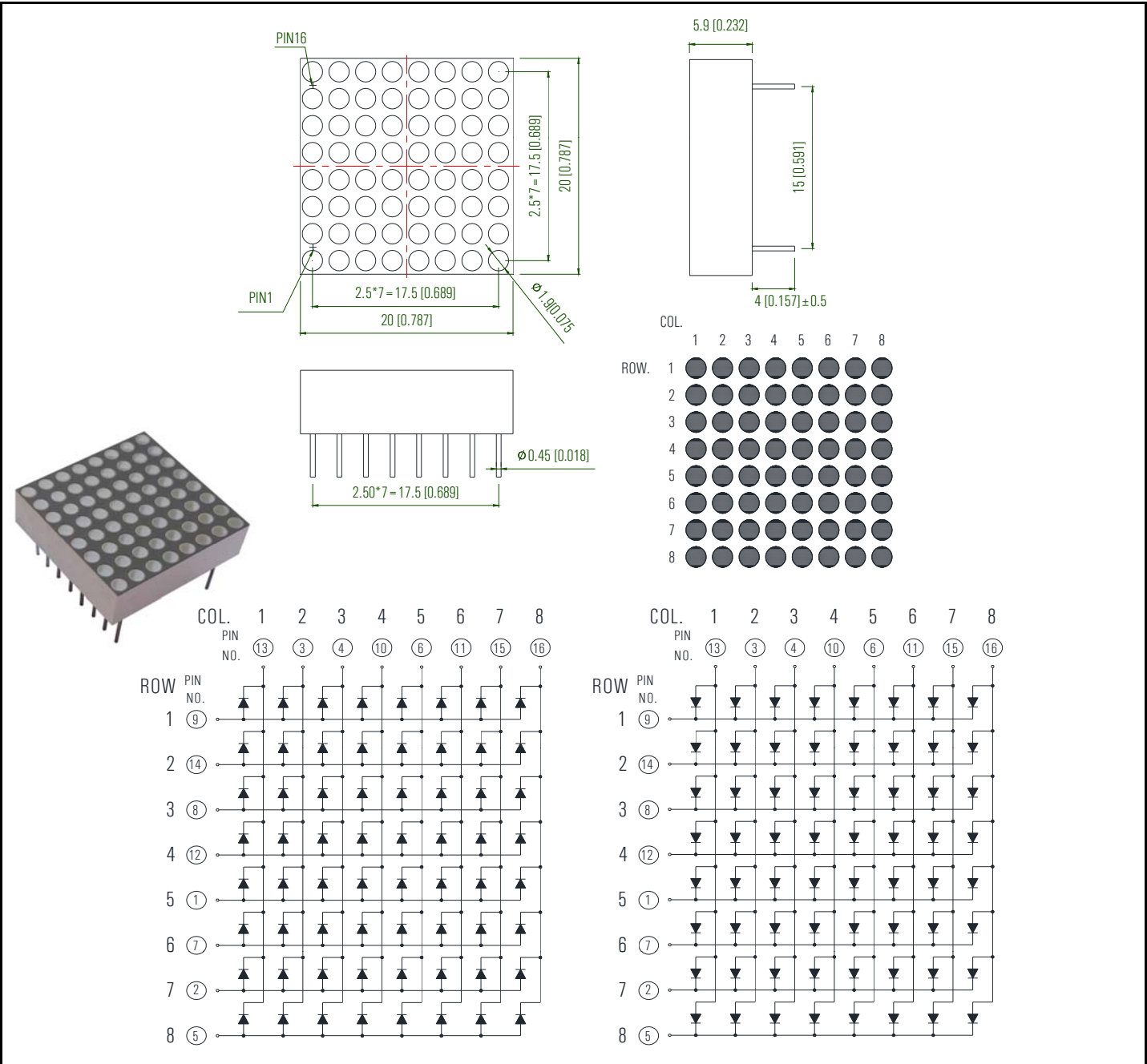
0.70" 5×7 Single Color Dot Matrix



|                 |              |                |      |    |      |                    |
|-----------------|--------------|----------------|------|----|------|--------------------|
| KWM-20571CRA    | Deep Red     | 630            | Gray | 20 | 40.0 | Common Row Cathode |
| KWM-20571CAA    | Orange       | 605            |      |    | 40.0 |                    |
| KWM-20571CGA    | Yellow Green | 572            |      |    | 30.0 |                    |
| KWM-20571CGA-G5 | Pure Green   | 525            |      |    | 80.0 |                    |
| KWM-20571CBA    | Blue         | 470            |      |    | 50.0 |                    |
| KWM-20571CWA    | White        | x=0.27, y=0.28 |      |    | 90.0 | Common Row Anode   |
| KWM-20571ARA    | Deep Red     | 630            |      |    | 40.0 |                    |
| KWM-20571AAA    | Orange       | 605            |      |    | 40.0 |                    |
| KWM-20571AGA    | Yellow Green | 572            |      |    | 30.0 |                    |
| KWM-20571AGA-G5 | Pure Green   | 525            |      |    | 80.0 |                    |
| KWM-20571ABA    | Blue         | 470            |      |    | 50.0 |                    |
| KWM-20571AWA    | White        | x=0.27, y=0.28 |      |    | 90.0 |                    |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

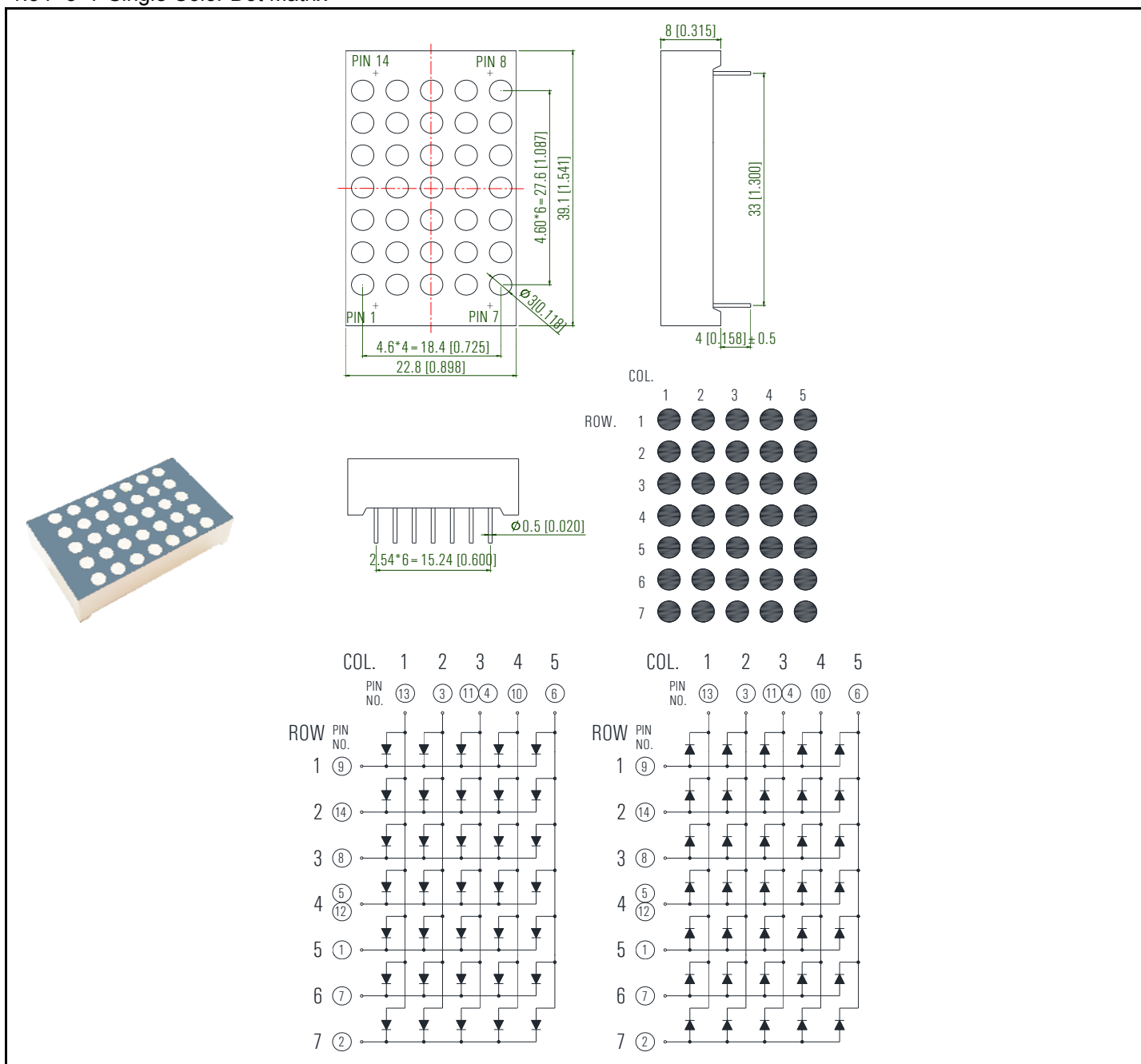
0.8" 8×8 Single Color Dot Matrix



|                 |              |                |      |    |       |                    |
|-----------------|--------------|----------------|------|----|-------|--------------------|
| KWM-20881CRA    | Deep Red     | 630            | Gray | 20 | 40.0  | Common Row Cathode |
| KWM-20881CAA    | Orange       | 605            |      |    | 40.0  |                    |
| KWM-20881CGA    | Yellow Green | 572            |      |    | 30.0  |                    |
| KWM-20881CGA-G5 | Pure Green   | 525            |      |    | 80.0  |                    |
| KWM-20881CBA    | Blue         | 470            |      |    | 60.0  |                    |
| KWM-20881CWA    | White        | x=0.27, y=0.28 |      |    | 260.0 | Common Row Anode   |
| KWM-20881ARA    | Deep Red     | 630            |      |    | 40.0  |                    |
| KWM-20881AAA    | Orange       | 605            |      |    | 40.0  |                    |
| KWM-20881AGA    | Yellow Green | 572            |      |    | 30.0  |                    |
| KWM-20881AGA-G5 | Pure Green   | 525            |      |    | 80.0  |                    |
| KWM-20881ABA    | Blue         | 470            |      |    | 60.0  |                    |
| KWM-20881AWA    | White        | x=0.27, y=0.28 |      |    | 260.0 |                    |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

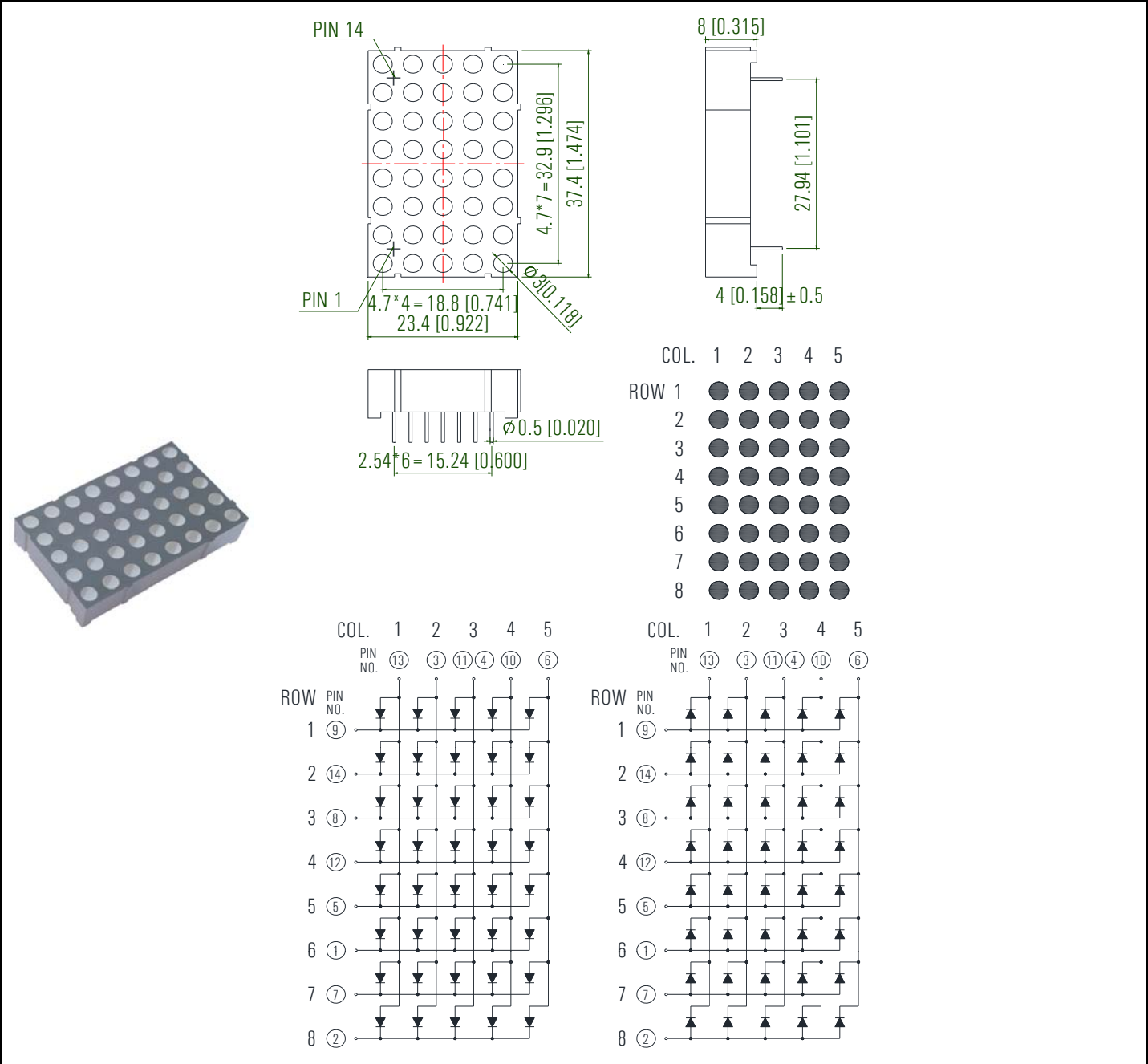
# 1.54" 5×7 Single Color Dot Matrix



|                 |              |                |      |    |       |                    |
|-----------------|--------------|----------------|------|----|-------|--------------------|
| KWM-30571CRA    | Deep Red     | 630            | Gray | 20 | 50.0  | Common Row Cathode |
| KWM-30571CAA    | Orange       | 605            |      |    | 46.0  |                    |
| KWM-30571CGA    | Yellow Green | 572            |      |    | 34.0  |                    |
| KWM-30571CGA-G5 | Pure Green   | 525            |      |    | 80.0  |                    |
| KWM-30571CBA    | Blue         | 470            |      |    | 60.0  |                    |
| KWM-30571CWA    | White        | x=0.30, y=0.31 |      |    | 260.0 | Common Row Anode   |
| KWM-30571ARA    | Deep Red     | 630            |      |    | 50.0  |                    |
| KWM-30571AAA    | Orange       | 605            |      |    | 46.0  |                    |
| KWM-30571AGA    | Yellow Green | 572            |      |    | 34.0  |                    |
| KWM-30571AGA-G5 | Pure Green   | 525            |      |    | 80.0  |                    |
| KWM-30571ABA    | Blue         | 470            |      |    | 60.0  |                    |
| KWM-30571AWA    | White        | x=0.30, y=0.31 |      |    | 260.0 |                    |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

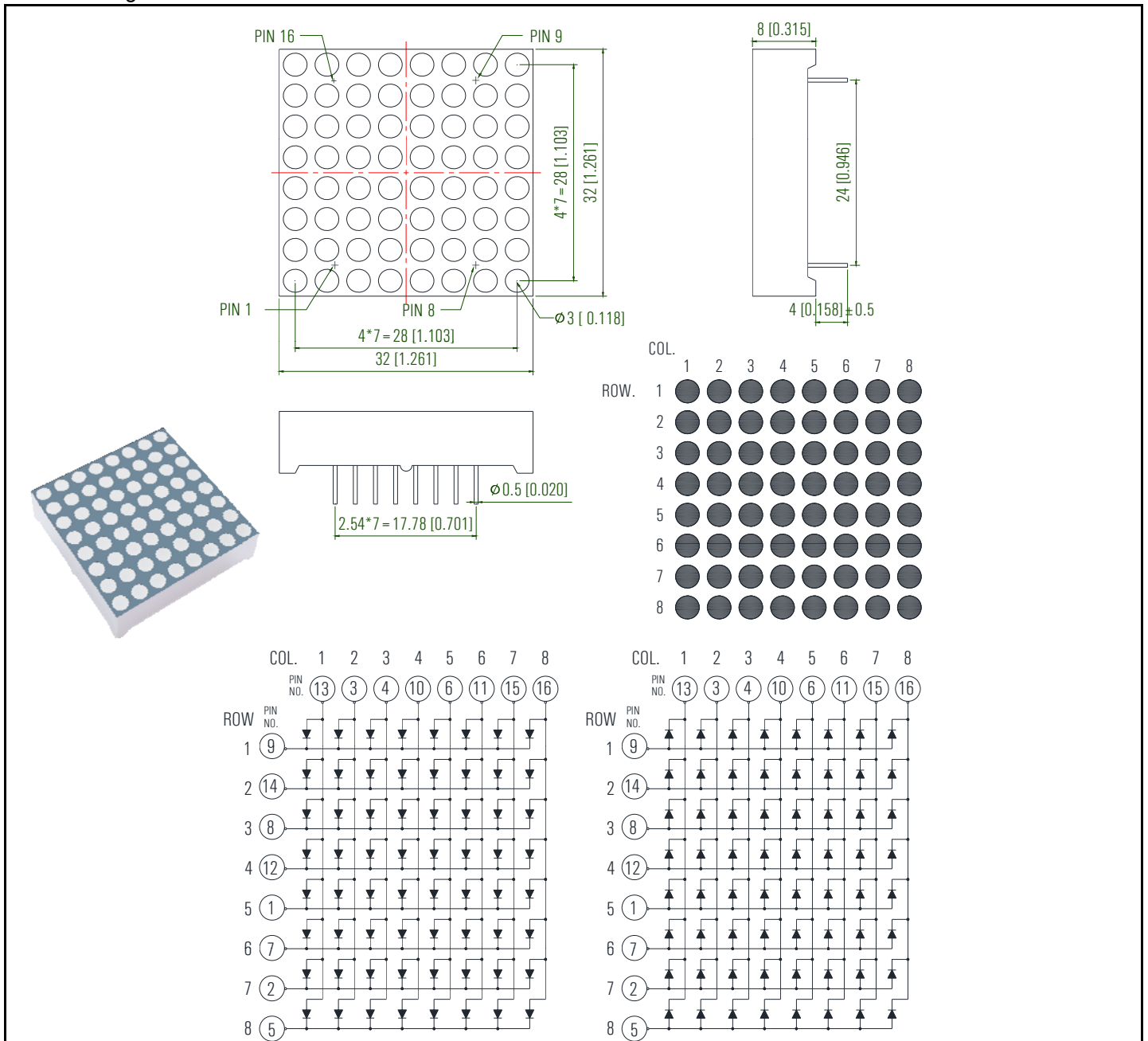
1.5" 5×8 Single Color Dot Matrix



|                 |              |                |      |    |       |                    |
|-----------------|--------------|----------------|------|----|-------|--------------------|
| KWM-30581CRA    | Deep Red     | 630            | Gray | 20 | 50.0  | Common Row Cathode |
| KWM-30581CAA    | Orange       | 605            |      |    | 46.0  |                    |
| KWM-30581CGA    | Yellow Green | 572            |      |    | 34.0  |                    |
| KWM-30581CGA-G5 | Pure Green   | 525            |      |    | 80.0  |                    |
| KWM-30581CBA    | Blue         | 470            |      |    | 60.0  |                    |
| KWM-30581CWA    | White        | x=0.30, y=0.31 |      |    | 260.0 | Common Row Anode   |
| KWM-30581ARA    | Deep Red     | 630            |      |    | 50.0  |                    |
| KWM-30581AAA    | Orange       | 605            |      |    | 46.0  |                    |
| KWM-30581AGA    | Yellow Green | 572            |      |    | 34.0  |                    |
| KWM-30581AGA-G5 | Pure Green   | 525            |      |    | 80.0  |                    |
| KWM-30581ABA    | Blue         | 470            |      |    | 60.0  |                    |
| KWM-30581AWA    | White        | x=0.30, y=0.31 |      |    | 260.0 |                    |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

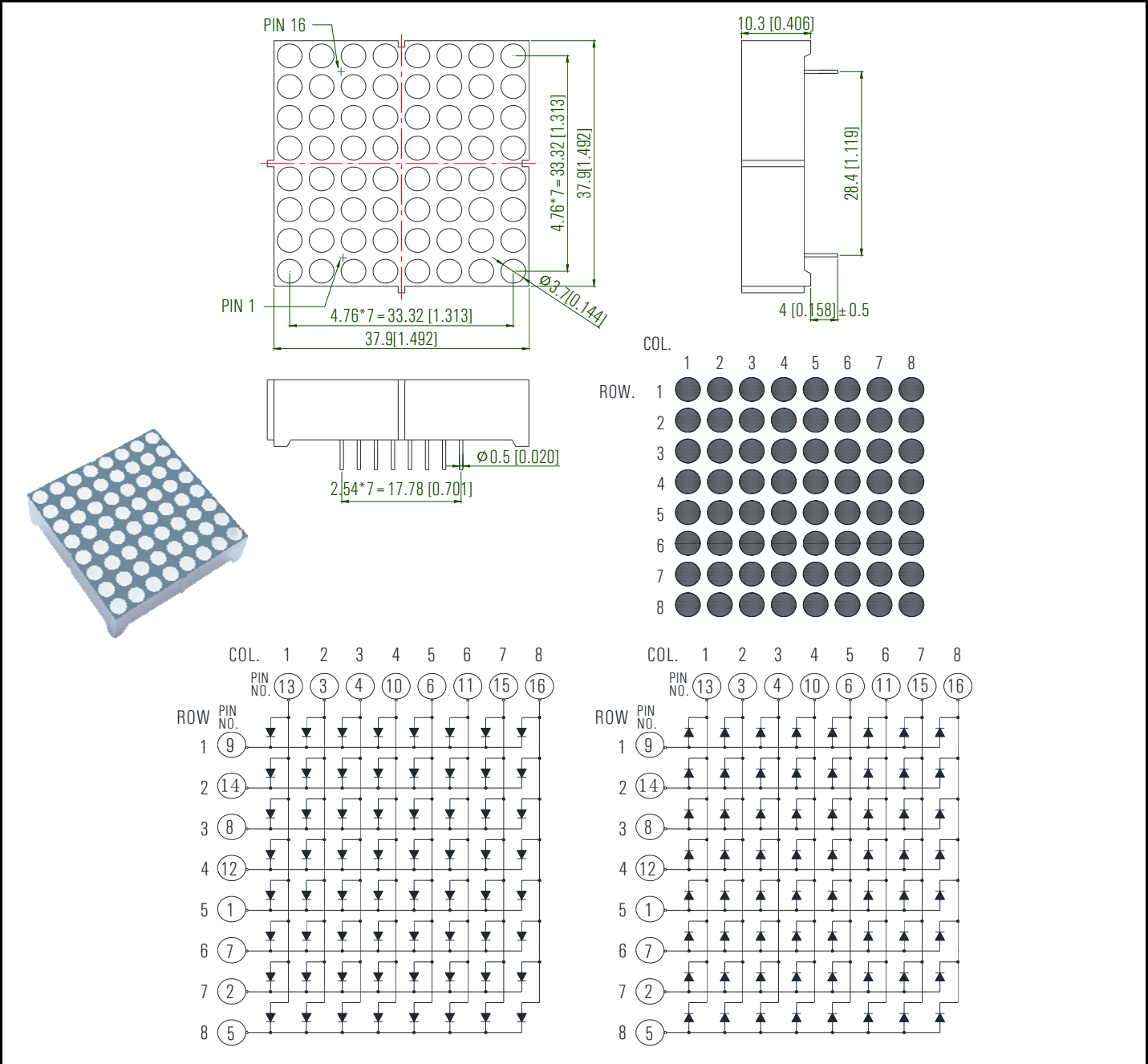
### 1.2" 8×8 Single Color Dot Matrix



|                 |              |                |      |    |       |                    |
|-----------------|--------------|----------------|------|----|-------|--------------------|
| KWM-30881CRA    | Deep Red     | 630            | Gray | 20 | 50.0  | Common Row Cathode |
| KWM-30881CAA    | Orange       | 605            |      |    | 46.0  |                    |
| KWM-30881CGA    | Yellow Green | 572            |      |    | 34.0  |                    |
| KWM-30881CGA-G5 | Pure Green   | 525            |      |    | 80.0  |                    |
| KWM-30881CBA    | Blue         | 470            |      |    | 60.0  |                    |
| KWM-30881CWA    | White        | x=0.30, y=0.31 |      |    | 260.0 | Common Row Anode   |
| KWM-30881ARA    | Deep Red     | 630            |      |    | 50.0  |                    |
| KWM-30881AAA    | Orange       | 605            |      |    | 46.0  |                    |
| KWM-30881AGA    | Yellow Green | 572            |      |    | 34.0  |                    |
| KWM-30881AGA-G5 | Pure Green   | 525            |      |    | 80.0  |                    |
| KWM-30881ABA    | Blue         | 470            |      |    | 60.0  |                    |
| KWM-30881AWA    | White        | x=0.30, y=0.31 |      |    | 260.0 |                    |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

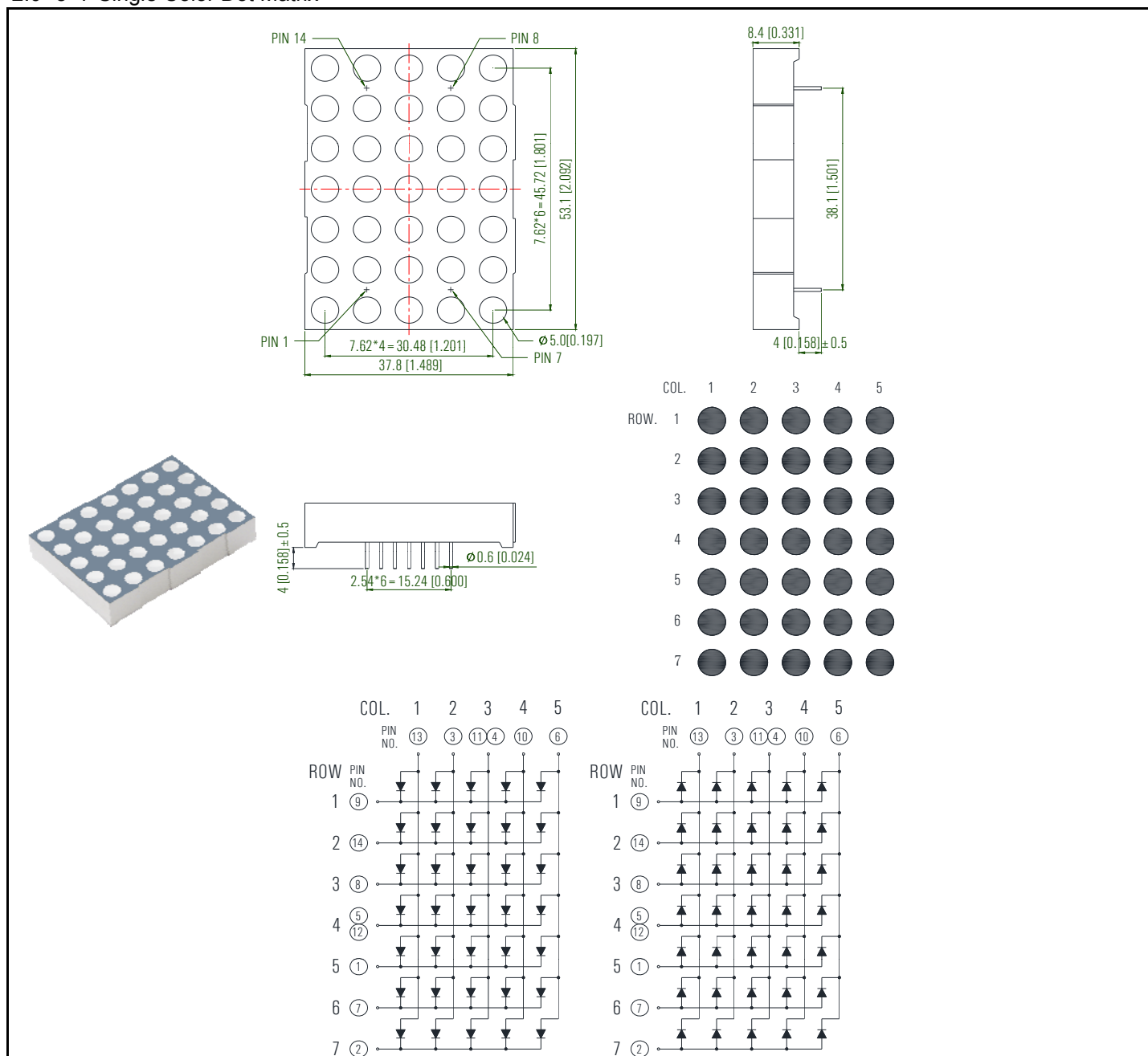
1.5" 8×8 Single Color Dot Matrix



|                 |              |                |      |    |       |                    |
|-----------------|--------------|----------------|------|----|-------|--------------------|
| KWM-37881CRA    | Deep Red     | 630            | Gray | 20 | 50.0  | Common Row Cathode |
| KWM-37881CAA    | Orange       | 605            |      |    | 46.0  |                    |
| KWM-37881CGA    | Yellow Green | 572            |      |    | 34.0  |                    |
| KWM-37881CGA-G5 | Pure Green   | 525            |      |    | 80.0  |                    |
| KWM-37881CBA    | Blue         | 470            |      |    | 60.0  | Common Row Anode   |
| KWM-37881CWA    | White        | x=0.30, y=0.31 |      |    | 260.0 |                    |
| KWM-37881ARA    | Deep Red     | 630            |      |    | 50.0  |                    |
| KWM-37881AAA    | Orange       | 605            |      |    | 46.0  |                    |
| KWM-37881AGA    | Yellow Green | 572            |      |    | 34.0  |                    |
| KWM-37881AGA-G5 | Pure Green   | 525            |      |    | 80.0  |                    |
| KWM-37881ABA    | Blue         | 470            |      |    | 60.0  |                    |
| KWM-37881AWA    | White        | x=0.30, y=0.31 |      |    | 260.0 |                    |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

## 2.0" 5×7 Single Color Dot Matrix

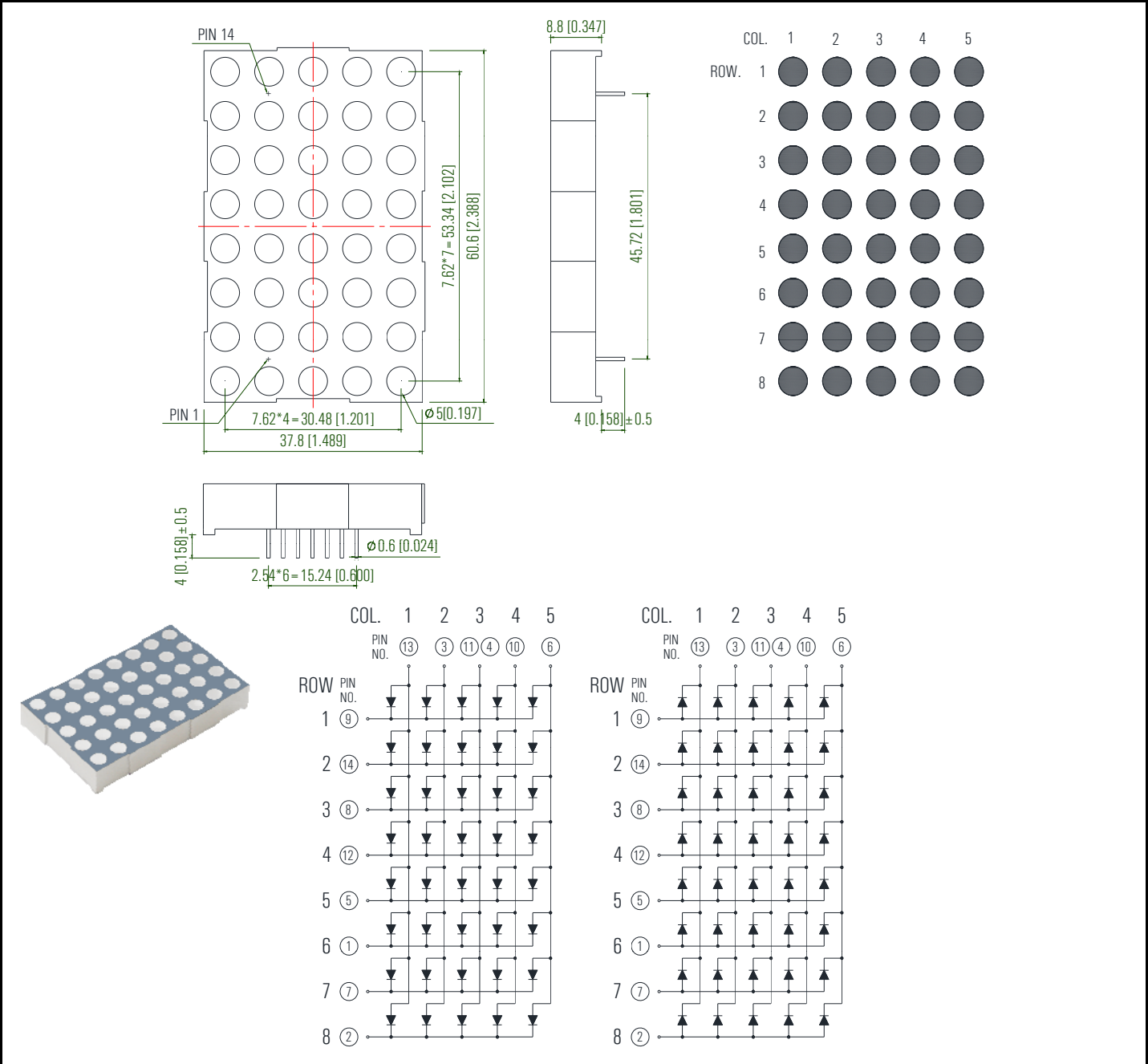


|                 |              |                |      |    |       |                    |
|-----------------|--------------|----------------|------|----|-------|--------------------|
| KWM-50571CRA    | Deep Red     | 630            | Gray | 20 | 60.0  | Common Row Cathode |
| KWM-50571CAA    | Orange       | 605            |      |    | 50.0  |                    |
| KWM-50571CGA    | Yellow Green | 572            |      |    | 36.0  |                    |
| KWM-50571CGA-G5 | Pure Green   | 525            |      |    | 90.0  |                    |
| KWM-50571CBA    | Blue         | 470            |      |    | 64.0  |                    |
| KWM-50571CWA    | White        | x=0.30, y=0.31 |      |    | 270.0 | Common Row Anode   |
| KWM-50571ARA    | Deep Red     | 630            |      |    | 60.0  |                    |
| KWM-50571AAA    | Orange       | 605            |      |    | 50.0  |                    |
| KWM-50571AGA    | Yellow Green | 572            |      |    | 36.0  |                    |
| KWM-50571AGA-G5 | Pure Green   | 525            |      |    | 90.0  |                    |
| KWM-50571ABA    | Blue         | 470            |      |    | 64.0  |                    |
| KWM-50571AWA    | White        | x=0.30, y=0.31 |      |    | 270.0 |                    |



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

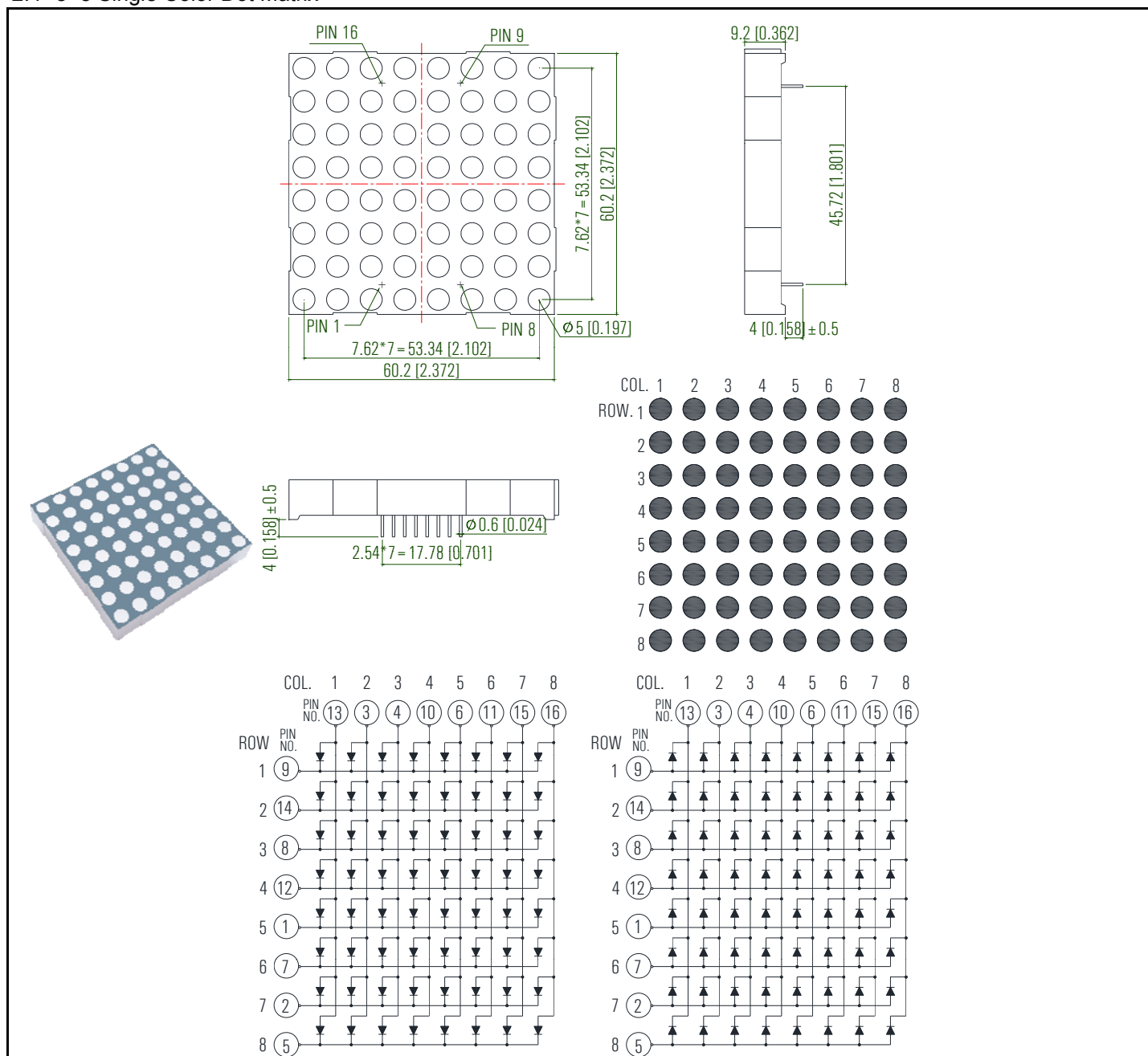
2.4" 5×8 Single Color Dot Matrix



|                 |              |                |      |    |       |                    |
|-----------------|--------------|----------------|------|----|-------|--------------------|
| KWM-50581CRA    | Deep Red     | 630            | Gray | 20 | 60.0  | Common Row Cathode |
| KWM-50581CAA    | Orange       | 605            |      |    | 50.0  |                    |
| KWM-50581CGA    | Yellow Green | 572            |      |    | 36.0  |                    |
| KWM-50581CGA-G5 | Pure Green   | 525            |      |    | 90.0  |                    |
| KWM-50581CBA    | Blue         | 470            |      |    | 64.0  |                    |
| KWM-50581CWA    | White        | x=0.30, y=0.31 |      |    | 270.0 | Common Row Anode   |
| KWM-50581ARA    | Deep Red     | 630            |      |    | 60.0  |                    |
| KWM-50581AAA    | Orange       | 605            |      |    | 50.0  |                    |
| KWM-50581AGA    | Yellow Green | 572            |      |    | 36.0  |                    |
| KWM-50581AGA-G5 | Pure Green   | 525            |      |    | 90.0  |                    |
| KWM-50581ABA    | Blue         | 470            |      |    | 64.0  |                    |
| KWM-50581AWA    | White        | x=0.30, y=0.31 |      |    | 270.0 |                    |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

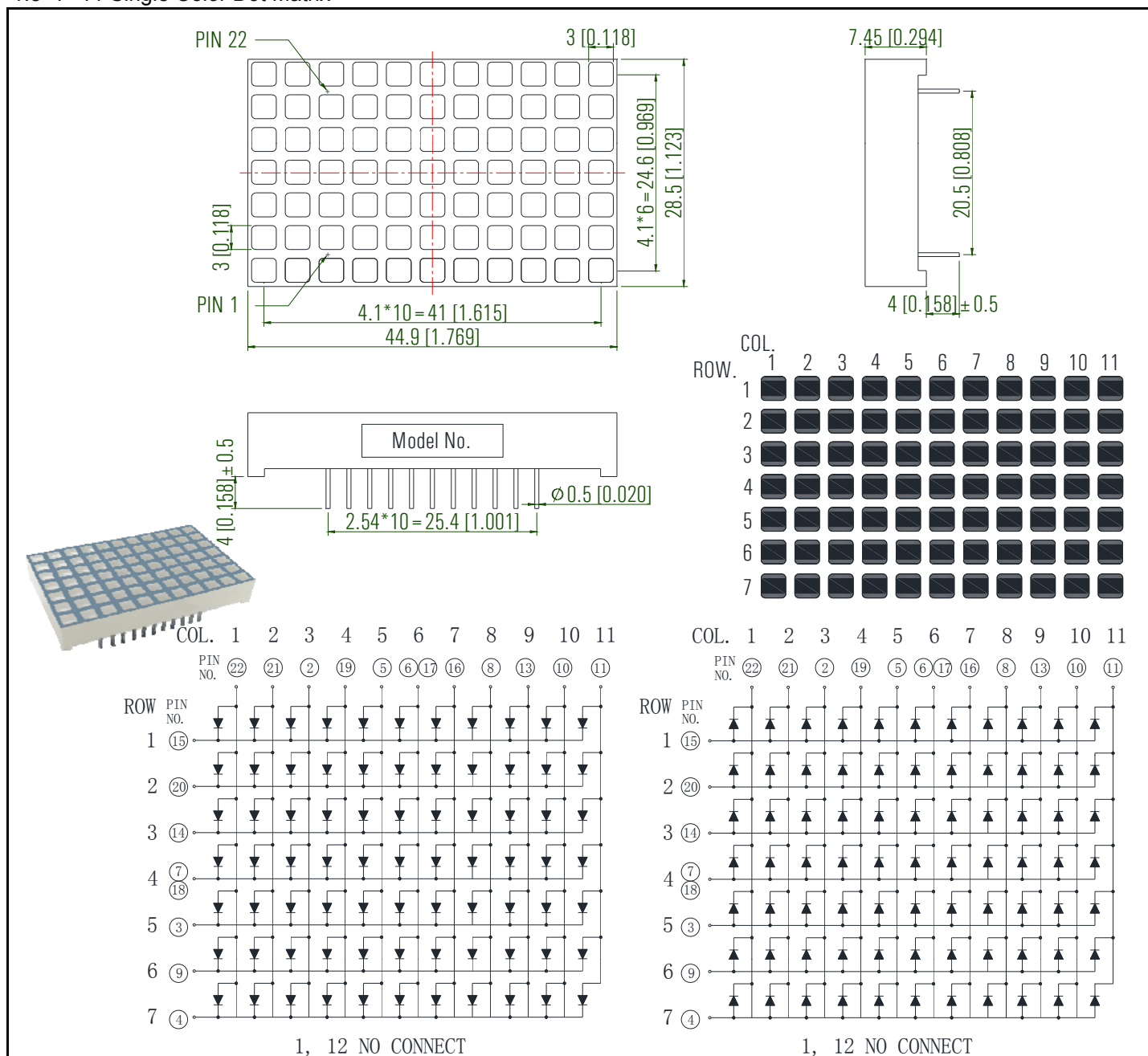
## 2.4" 8×8 Single Color Dot Matrix



|                 |              |                |      |    |       |                    |
|-----------------|--------------|----------------|------|----|-------|--------------------|
| KWM-50881CRA    | Deep Red     | 630            | Gray | 20 | 60.0  | Common Row Cathode |
| KWM-50881CAA    | Orange       | 605            |      |    | 50.0  |                    |
| KWM-50881CGA    | Yellow Green | 572            |      |    | 36.0  |                    |
| KWM-50881CGA-G5 | Pure Green   | 525            |      |    | 90.0  |                    |
| KWM-50881CBA    | Blue         | 470            |      |    | 64.0  |                    |
| KWM-50881CWA    | White        | x=0.30, y=0.31 |      |    | 270.0 | Common Row Anode   |
| KWM-50881ARA    | Deep Red     | 630            |      |    | 60.0  |                    |
| KWM-50881AAA    | Orange       | 605            |      |    | 50.0  |                    |
| KWM-50881AGA    | Yellow Green | 572            |      |    | 36.0  |                    |
| KWM-50881AGA-G5 | Pure Green   | 525            |      |    | 90.0  |                    |
| KWM-50881ABA    | Blue         | 470            |      |    | 64.0  |                    |
| KWM-50881AWA    | White        | x=0.30, y=0.31 |      |    | 270.0 |                    |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

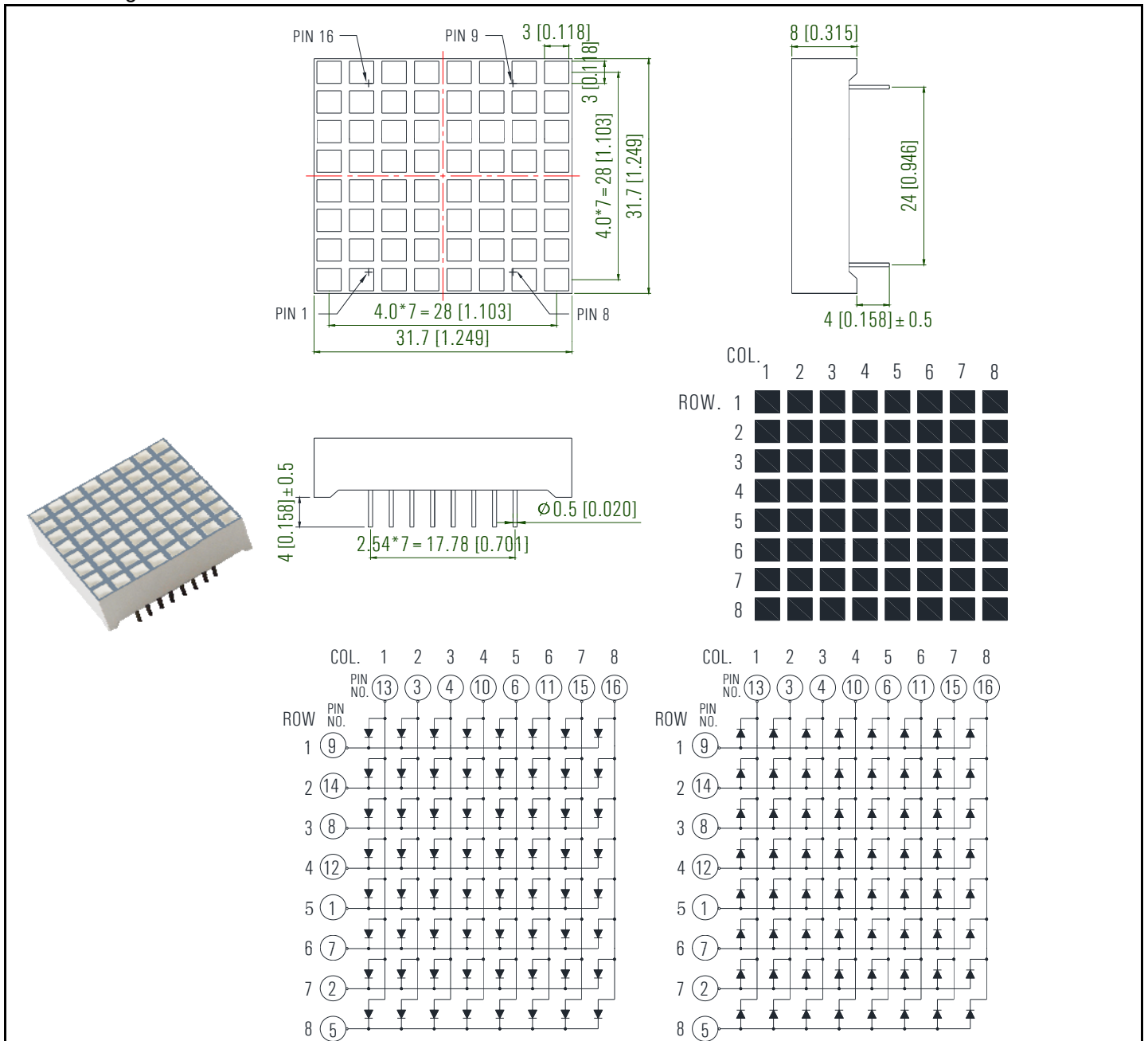
## 1.8" 7×11 Single Color Dot Matrix



|                 |              |                |      |    |       |                    |
|-----------------|--------------|----------------|------|----|-------|--------------------|
| KWM-R3711CRA    | Deep Red     | 630            | Gray | 20 | 50.0  | Common Row Cathode |
| KWM-R3711CAA    | Orange       | 605            |      |    | 46.0  |                    |
| KWM-R3711CGA    | Yellow Green | 572            |      |    | 34.0  |                    |
| KWM-R3711CGA-G5 | Pure Green   | 525            |      |    | 80.0  |                    |
| KWM-R3711CBA    | Blue         | 470            |      |    | 60.0  |                    |
| KWM-R3711CWA    | White        | x=0.30, y=0.31 |      |    | 260.0 | Common Row Anode   |
| KWM-R3711ARA    | Deep Red     | 630            |      |    | 50.0  |                    |
| KWM-R3711AAA    | Orange       | 605            |      |    | 46.0  |                    |
| KWM-R3711AGA    | Yellow Green | 572            |      |    | 34.0  |                    |
| KWM-R3711AGA-G5 | Pure Green   | 525            |      |    | 80.0  |                    |
| KWM-R3711ABA    | Blue         | 470            |      |    | 60.0  |                    |
| KWM-R3711AWA    | White        | x=0.30, y=0.31 |      |    | 260.0 |                    |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

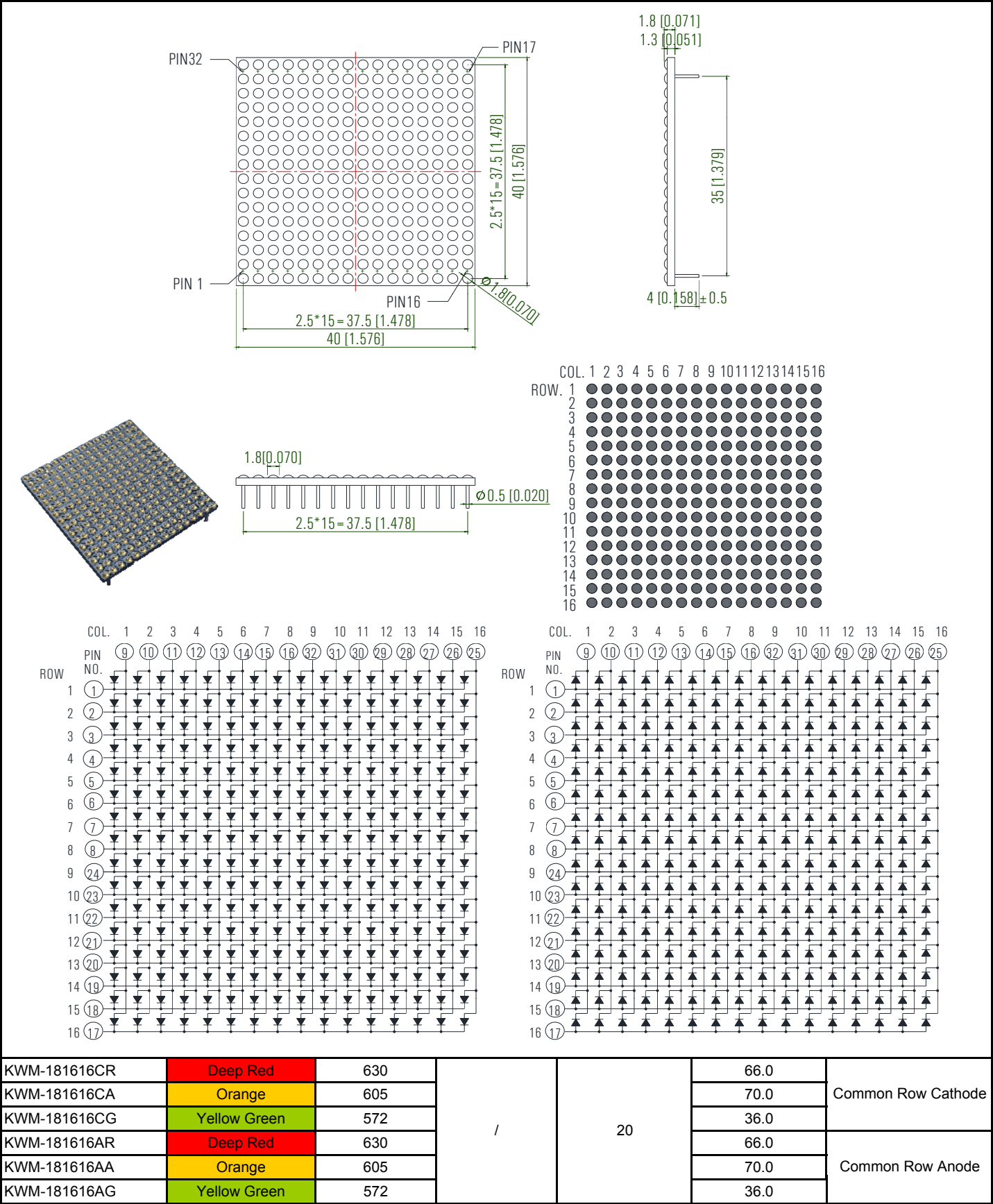
### 1.2" 8×8 Single Color Dot Matrix



|                  |              |                |      |    |       |                    |
|------------------|--------------|----------------|------|----|-------|--------------------|
| KWM-R30881CRA    | Deep Red     | 630            | Gray | 20 | 50.0  | Common Row Cathode |
| KWM-R30881CAA    | Orange       | 605            |      |    | 50.0  |                    |
| KWM-R30881CGA    | Yellow Green | 572            |      |    | 36.0  |                    |
| KWM-R30881CGA-G5 | Pure Green   | 525            |      |    | 80.0  |                    |
| KWM-R30881CBA    | Blue         | 470            |      |    | 60.0  |                    |
| KWM-R30881CWA    | White        | x=0.30, y=0.31 |      |    | 270.0 | Common Row Anode   |
| KWM-R30881ARA    | Deep Red     | 630            |      |    | 50.0  |                    |
| KWM-R30881AAA    | Orange       | 605            |      |    | 50.0  |                    |
| KWM-R30881AGA    | Yellow Green | 572            |      |    | 36.0  |                    |
| KWM-R30881AGA-G5 | Pure Green   | 525            |      |    | 80.0  |                    |
| KWM-R30881ABA    | Blue         | 470            |      |    | 60.0  |                    |
| KWM-R30881AWA    | White        | x=0.30, y=0.31 |      |    | 270.0 |                    |

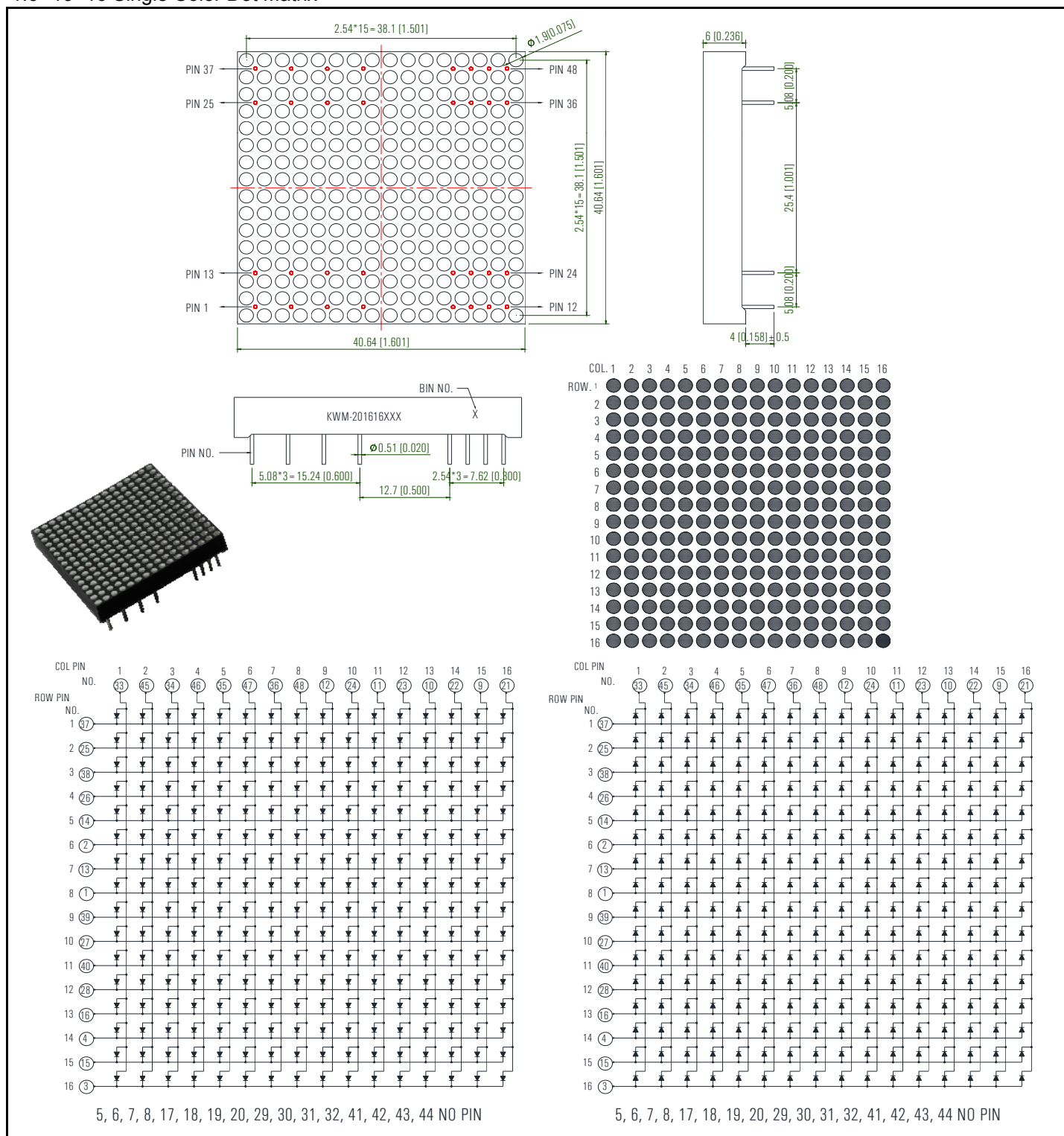
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

1.57" 16×16 Single Color Dot Matrix



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

## 1.6" 16×16 Single Color Dot Matrix

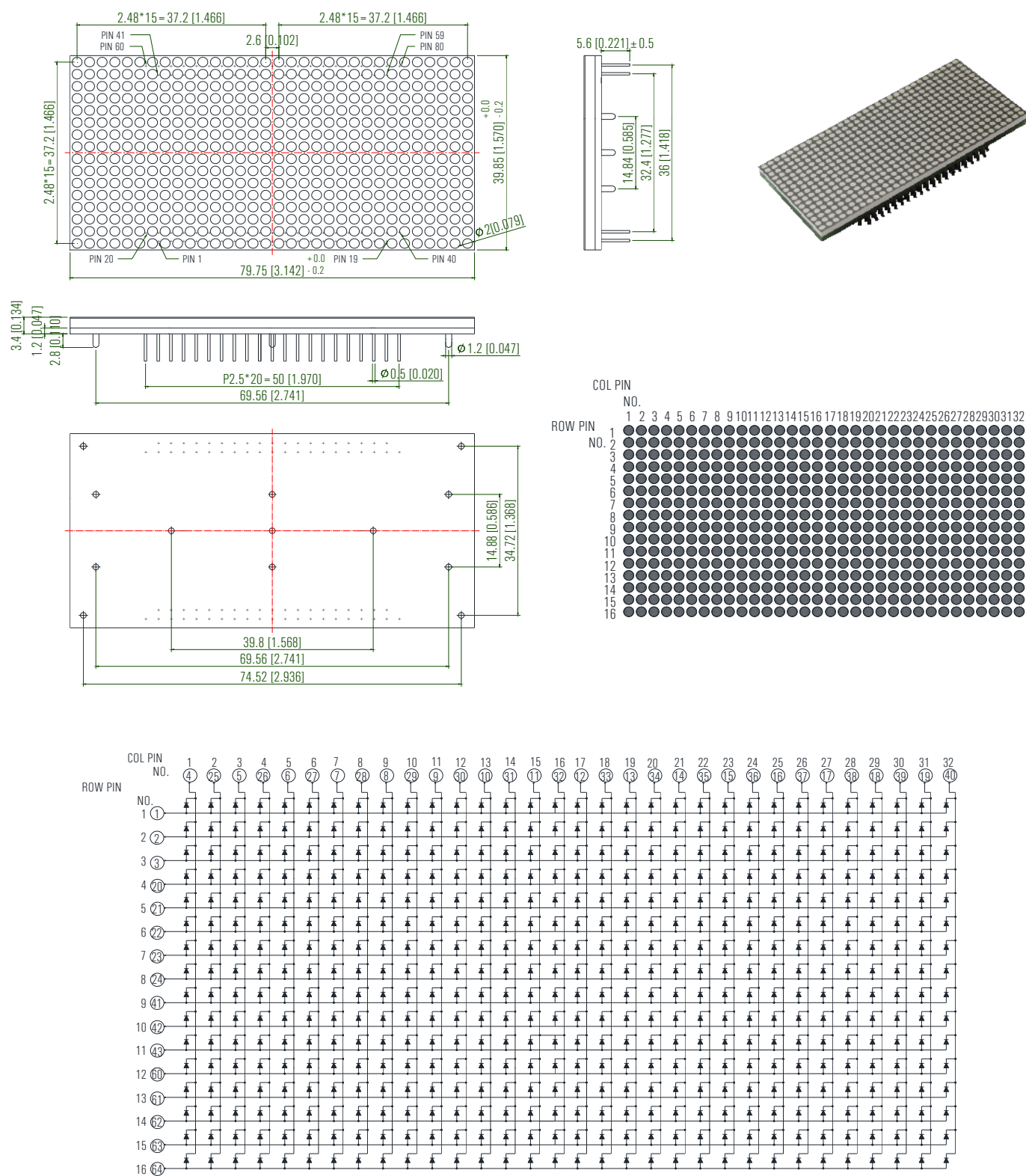


|                |              |     |       |    |      |                    |
|----------------|--------------|-----|-------|----|------|--------------------|
| KWM-2016161CRB | Deep Red     | 630 | Black | 20 | 42.0 | Common Row Cathode |
| KWM-2016161CAB | Orange       | 605 |       |    | 40.0 |                    |
| KWM-2016161CGB | Yellow Green | 572 |       |    | 30.0 |                    |
| KWM-2016161ARB | Deep Red     | 630 |       |    | 42.0 | Common Row Anode   |
| KWM-2016161AAB | Orange       | 605 |       |    | 40.0 |                    |
| KWM-2016161AGB | Yellow Green | 572 |       |    | 30.0 |                    |



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

### 3.1" 32×16 Single Color Dot Matrix

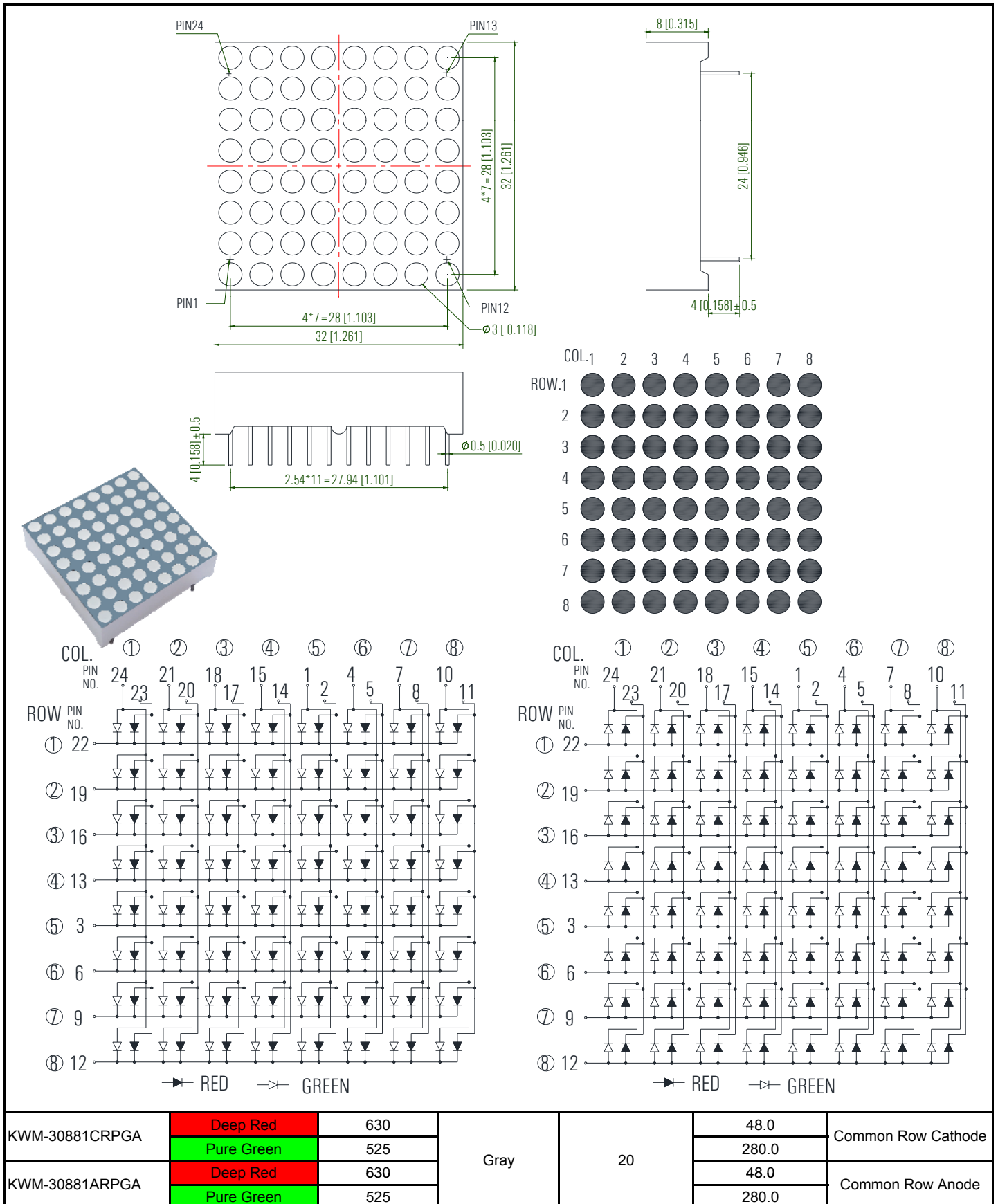


44 ~ 59, 65 ~ 80 NO CONNECT

|               |              |     |       |    |      |                  |
|---------------|--------------|-----|-------|----|------|------------------|
| KWM-2032161AR | Deep Red     | 630 | Black | 20 | 50.0 | Common Row Anode |
| KWM-2032161AA | Orange       | 605 |       |    | 60.0 |                  |
| KWM-2032161AG | Yellow Green | 572 |       |    | 30.0 |                  |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

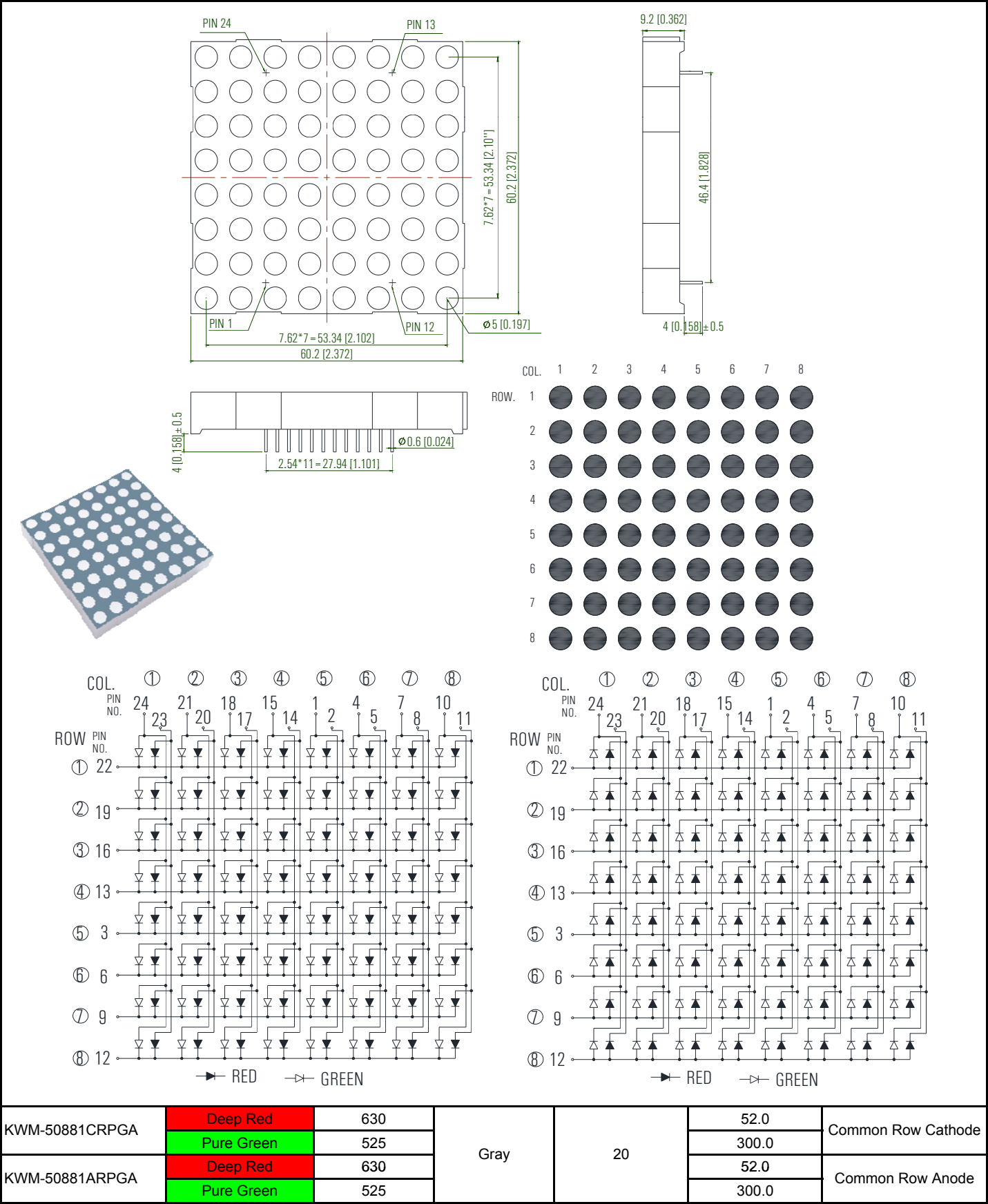
1.2" 8×8 Bi-Color Dot Matrix





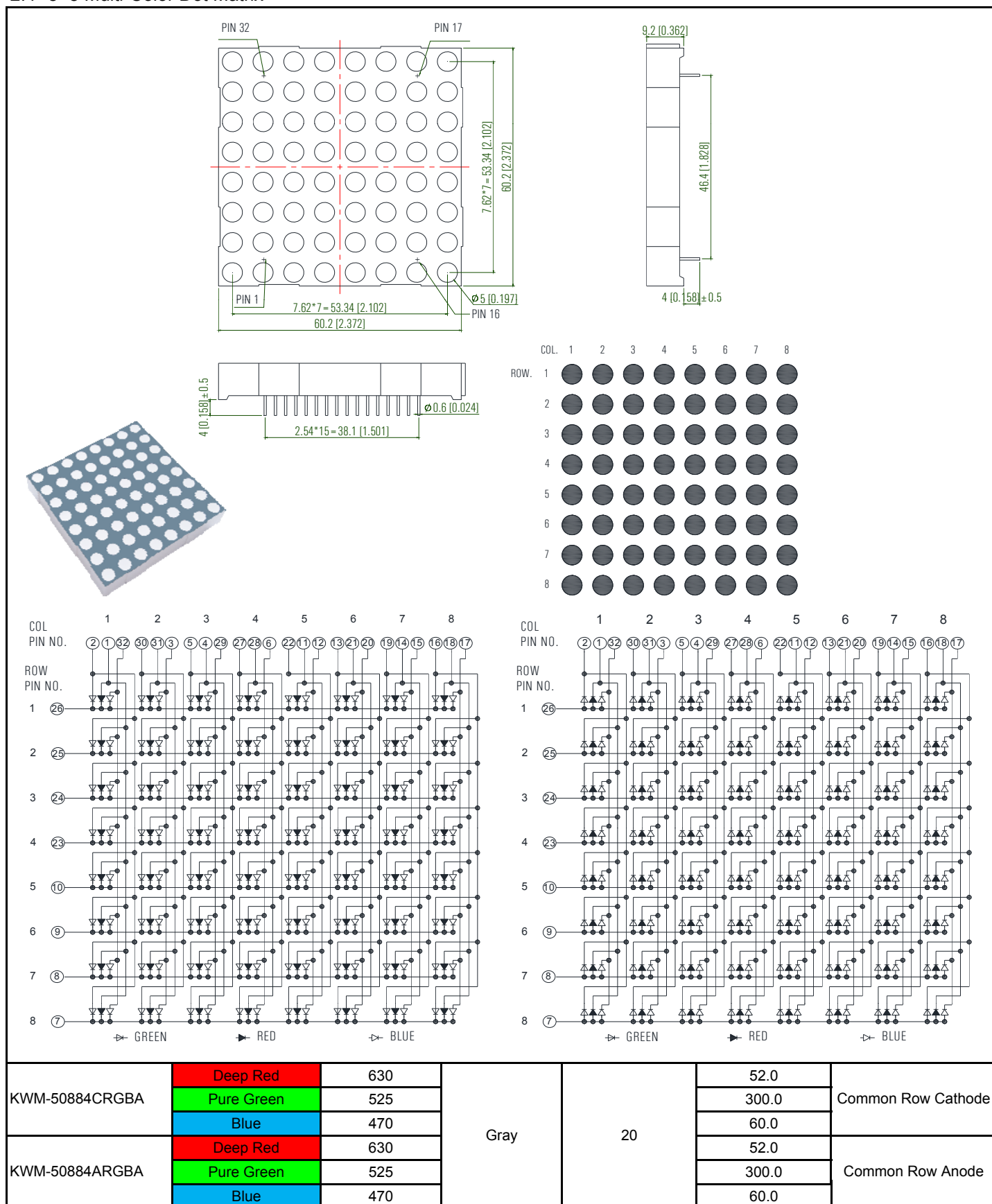
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

2.4" 8×8 Bi-Color Dot Matrix



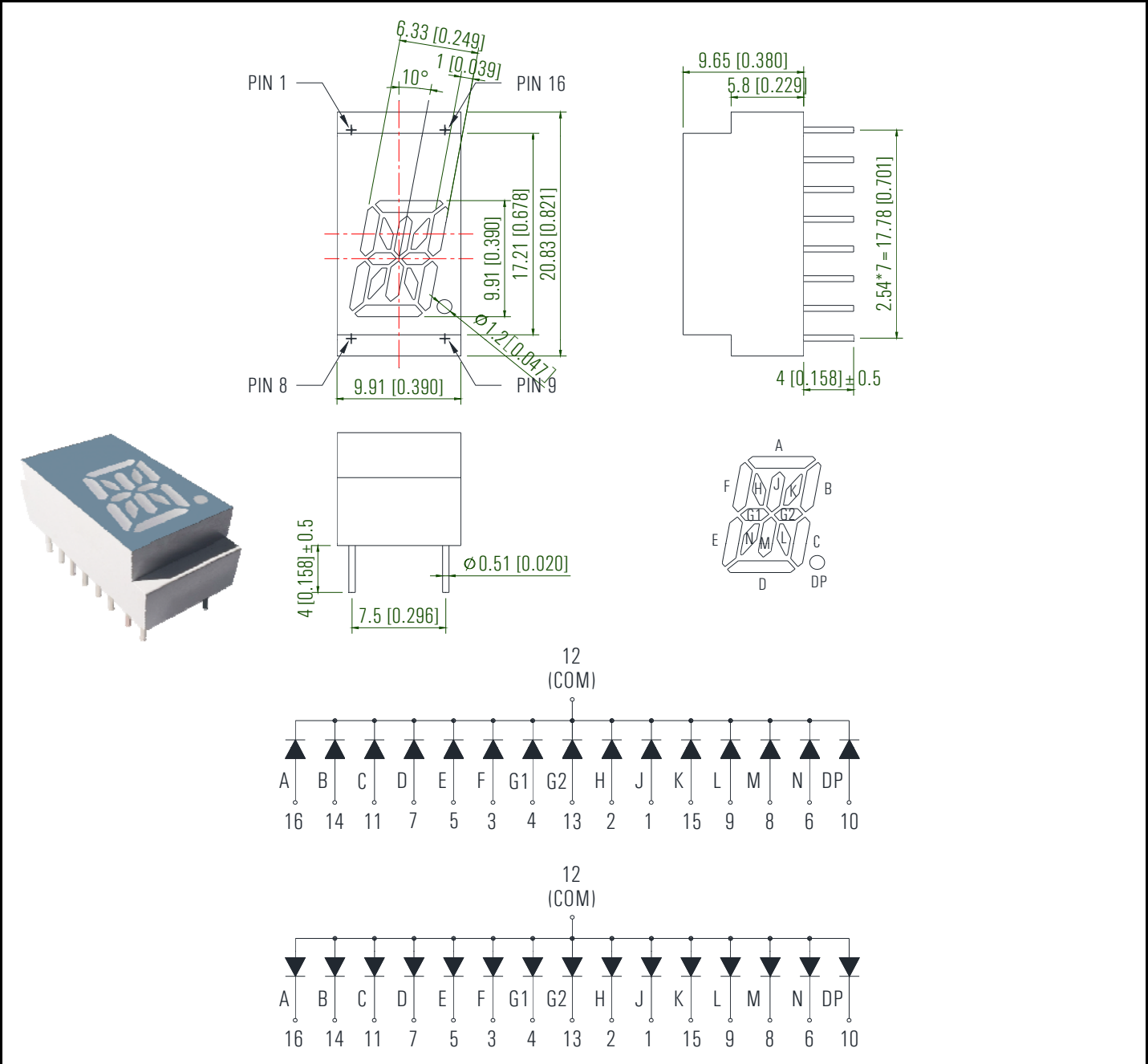
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

## 2.4" 8×8 Multi-Color Dot Matrix



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

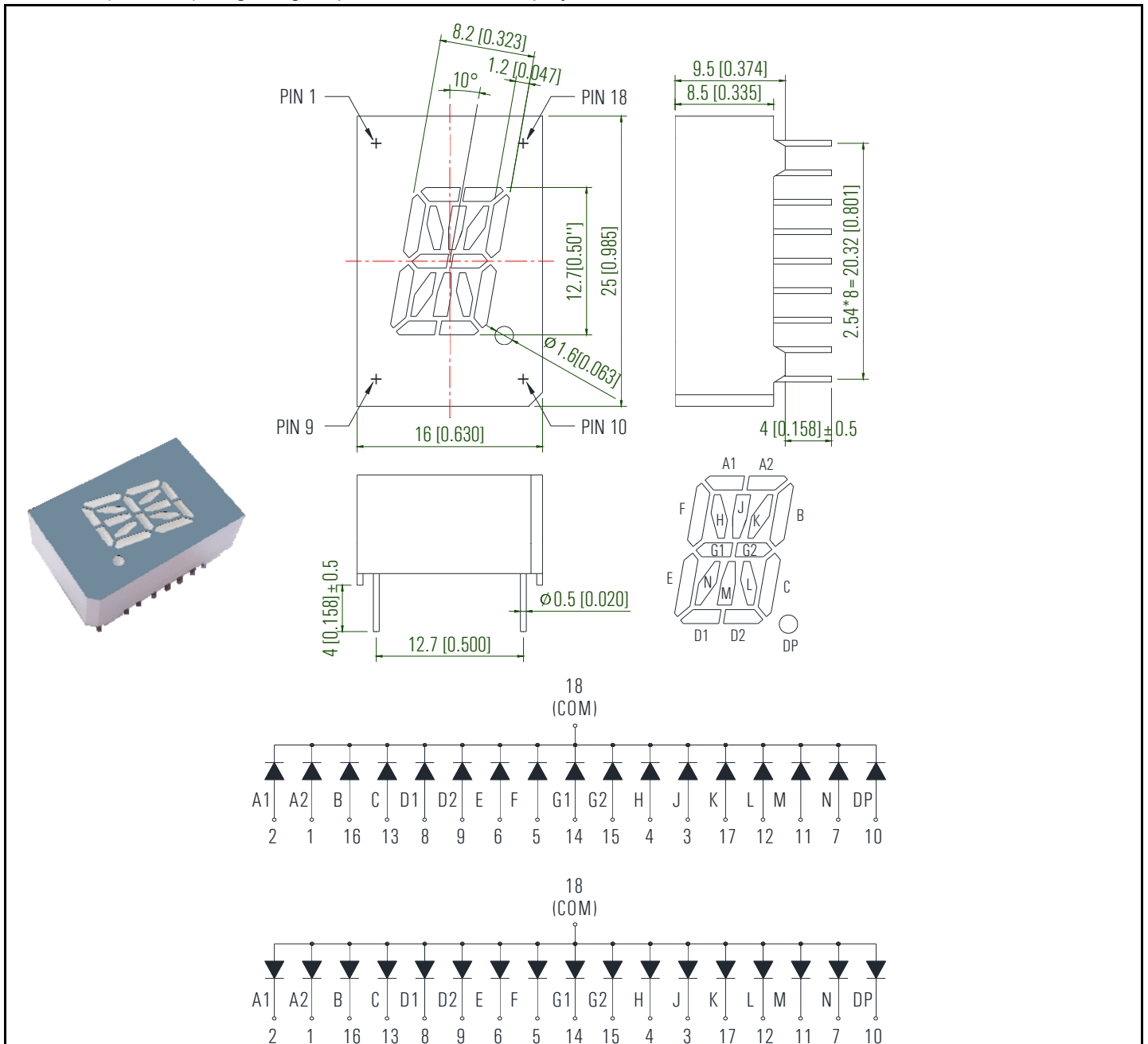
9.90mm (0.39inch) Single Digit Alphanumeric LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KWA-393CRA    | Deep Red     | 630            | Gray | 20 | 30.0  | Common Cathode |
| KWA-393CAA    | Orange       | 605            |      |    | 30.0  |                |
| KWA-393CGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KWA-393CGA-G5 | Pure Green   | 525            |      |    | 100.0 |                |
| KWA-393CBA    | Blue         | 470            |      |    | 34.0  |                |
| KWA-393CWA-Y  | White        | x=0.30, y=0.31 |      |    | 120.0 |                |
| KWA-393ARA    | Deep Red     | 630            |      |    | 30.0  | Common Anode   |
| KWA-393AAA    | Orange       | 605            |      |    | 30.0  |                |
| KWA-393AGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KWA-393AGA-G5 | Pure Green   | 525            |      |    | 100.0 |                |
| KWA-393ABA    | Blue         | 470            |      |    | 34.0  |                |
| KWA-393AWA-Y  | White        | x=0.30, y=0.31 |      |    | 120.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

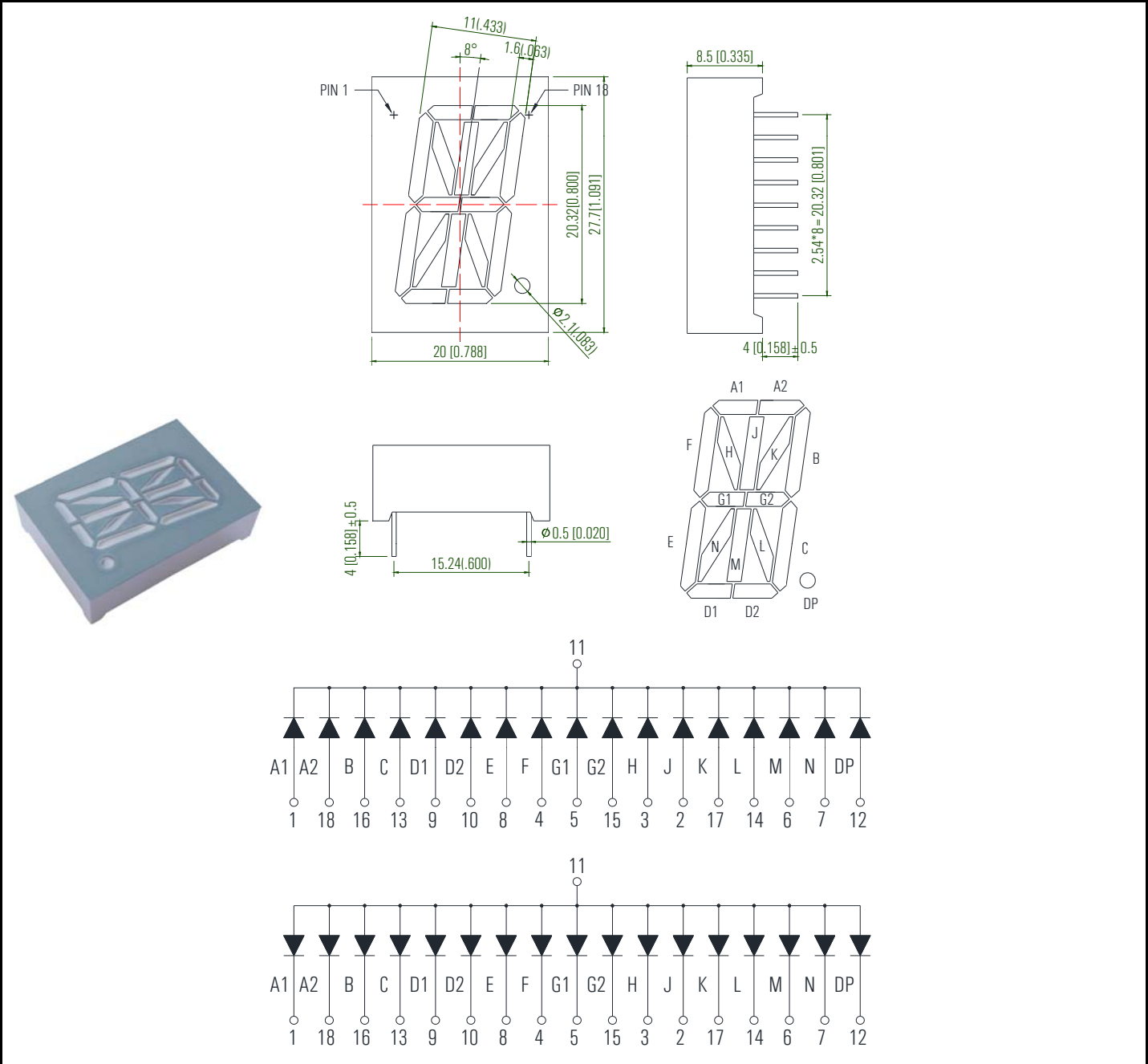
12.70mm (0.50inch) Single Digit Alphanumeric LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KWA-501CRA    | Deep Red     | 630            | Gray | 20 | 31.0  | Common Cathode |
| KWA-501CAA    | Orange       | 605            |      |    | 30.0  |                |
| KWA-501CGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KWA-501CGA-G5 | Pure Green   | 525            |      |    | 100.0 |                |
| KWA-501CBA    | Blue         | 470            |      |    | 34.0  |                |
| KWA-501CWA    | White        | x=0.30, y=0.31 |      |    | 120.0 |                |
| KWA-501ARA    | Deep Red     | 630            |      |    | 31.0  | Common Anode   |
| KWA-501AAA    | Orange       | 605            |      |    | 30.0  |                |
| KWA-501AGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KWA-501AGA-G5 | Pure Green   | 525            |      |    | 100.0 |                |
| KWA-501ABA    | Blue         | 470            |      |    | 34.0  |                |
| KWA-501AWA    | White        | x=0.30, y=0.31 |      |    | 120.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

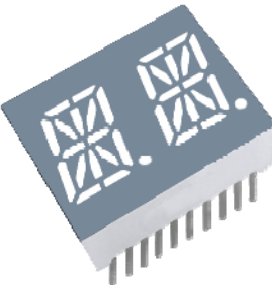
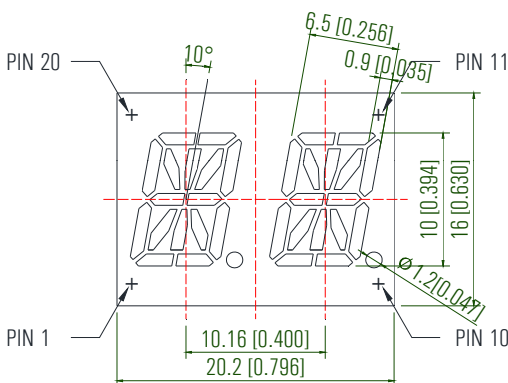
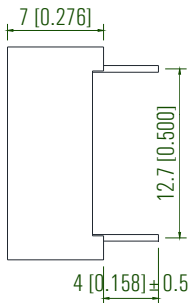
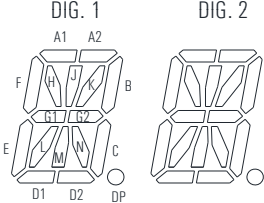
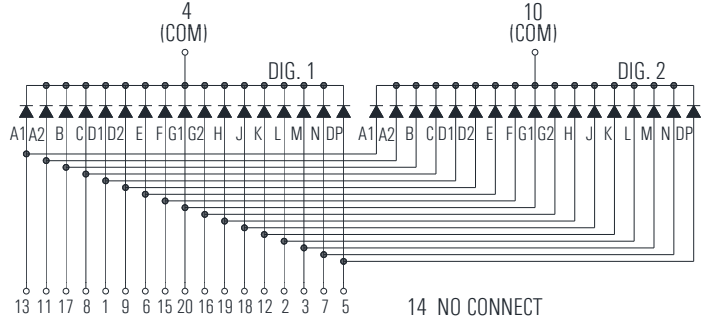
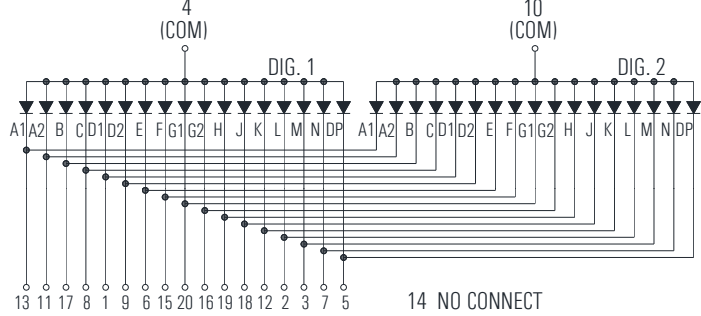
20.32mm (0.80inch) Single Digit Alphanumeric LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KWA-801CRA    | Deep Red     | 630            | Gray | 20 | 38.0  | Common Cathode |
| KWA-801CAA    | Orange       | 605            |      |    | 36.0  |                |
| KWA-801CGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KWA-801CGA-G5 | Pure Green   | 525            |      |    | 104.0 |                |
| KWA-801CBA    | Blue         | 470            |      |    | 40.0  |                |
| KWA-801CWA    | White        | x=0.30, y=0.31 |      |    | 260.0 | Common Anode   |
| KWA-801ARA    | Deep Red     | 630            |      |    | 38.0  |                |
| KWA-801AAA    | Orange       | 605            |      |    | 36.0  |                |
| KWA-801AGA    | Yellow Green | 572            |      |    | 20.0  |                |
| KWA-801AGA-G5 | Pure Green   | 525            |      |    | 104.0 |                |
| KWA-801ABA    | Blue         | 470            |      |    | 40.0  |                |
| KWA-801AWA    | White        | x=0.30, y=0.31 |      |    | 260.0 |                |

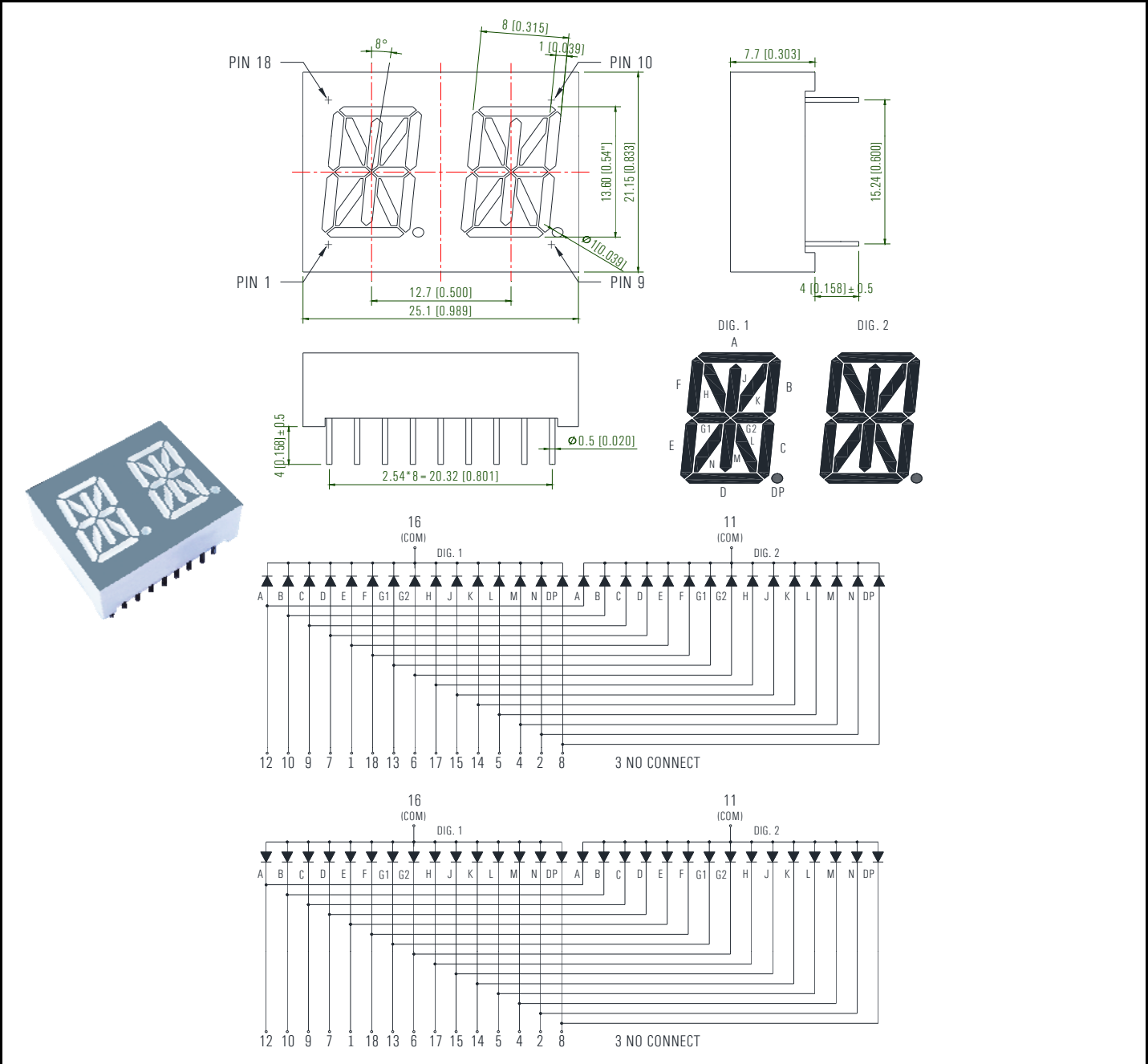
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

10.00mm (0.39inch) Dual Digit Alphanumeric LED Display

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                |      |    |       |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|------|----|-------|----------------|
|       |              |                |      |    |       |                |
| KWA2-391CRA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Deep Red     | 630            | Gray | 20 | 30.0  | Common Cathode |
| KWA2-391CAA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Orange       | 605            |      |    | 30.0  |                |
| KWA2-391CGA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Yellow Green | 572            |      |    | 25.0  |                |
| KWA2-391CGA-G5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Pure Green   | 525            |      |    | 100.0 |                |
| KWA2-391CBA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blue         | 470            |      |    | 34.0  |                |
| KWA2-391CWA-Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | White        | x=0.30, y=0.31 |      |    | 120.0 |                |
| KWA2-391ARA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Deep Red     | 630            |      |    | 30.0  | Common Anode   |
| KWA2-391AAA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Orange       | 605            |      |    | 30.0  |                |
| KWA2-391AGA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Yellow Green | 572            |      |    | 25.0  |                |
| KWA2-391AGA-G5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Pure Green   | 525            |      |    | 100.0 |                |
| KWA2-391ABA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blue         | 470            |      |    | 34.0  |                |
| KWA2-391AWA-Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | White        | x=0.30, y=0.31 |      |    | 120.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

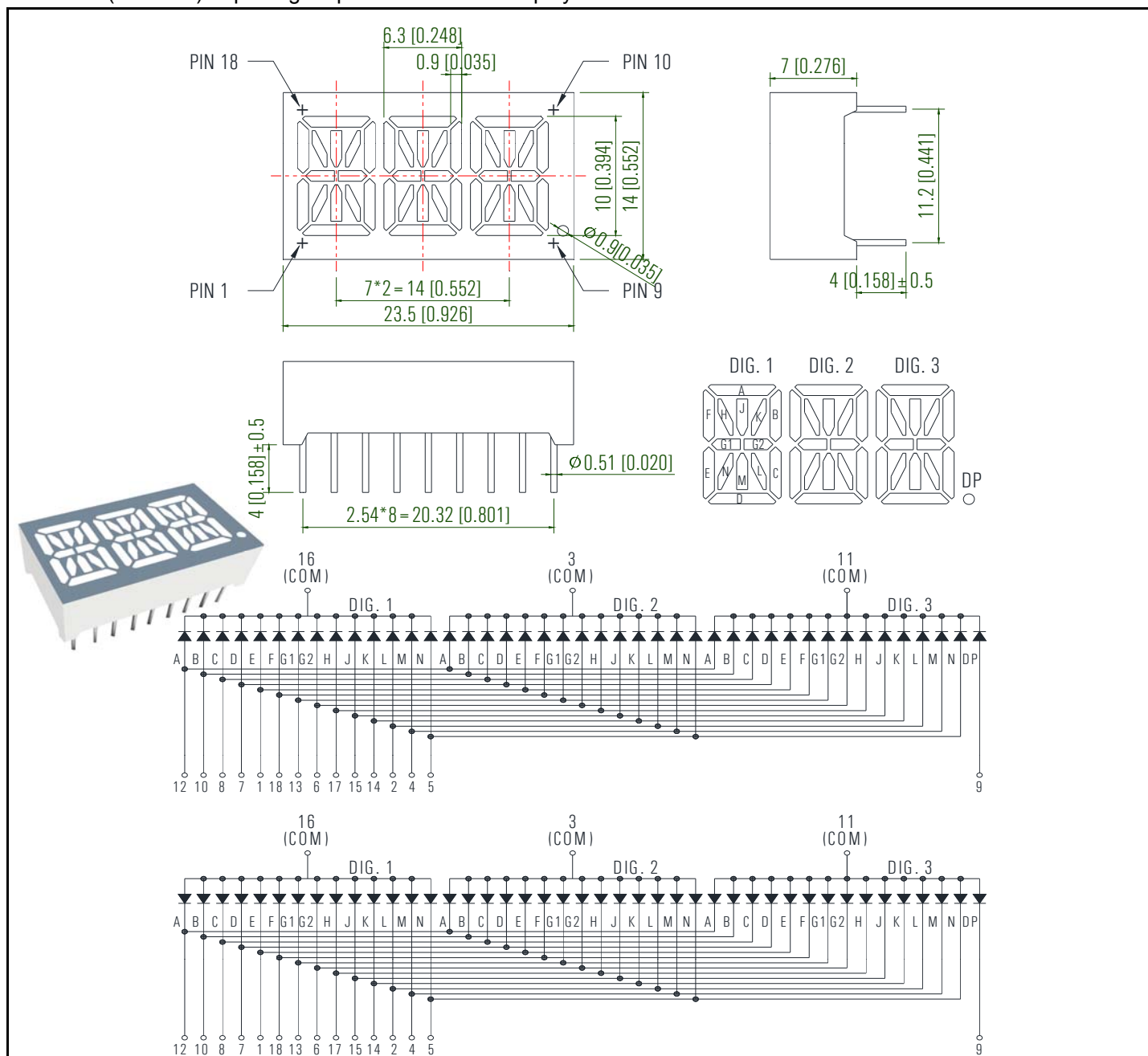
13.60mm (0.54inch) Dual Digit Alphanumeric LED Display



|               |              |                |      |    |       |                |
|---------------|--------------|----------------|------|----|-------|----------------|
| KWA-541CRA    | Deep Red     | 630            | Gray | 20 | 31.0  | Common Cathode |
| KWA-541CAA    | Orange       | 605            |      |    | 32.0  |                |
| KWA-541CGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KWA-541CGA-G5 | Pure Green   | 525            |      |    | 100.0 |                |
| KWA-541CBA    | Blue         | 470            |      |    | 34.0  |                |
| KWA-541CWA    | White        | x=0.30, y=0.31 |      |    | 160.0 | Common Anode   |
| KWA-541ARA    | Deep Red     | 630            |      |    | 31.0  |                |
| KWA-541AAA    | Orange       | 605            |      |    | 32.0  |                |
| KWA-541AGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KWA-541AGA-G5 | Pure Green   | 525            |      |    | 100.0 |                |
| KWA-541ABA    | Blue         | 470            |      |    | 34.0  |                |
| KWA-541AWA    | White        | x=0.30, y=0.31 |      |    | 160.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | $I_F = \text{mA}$              | Typ. |                |

10.00mm (0.39inch) Triple Digit Alphanumeric LED Display

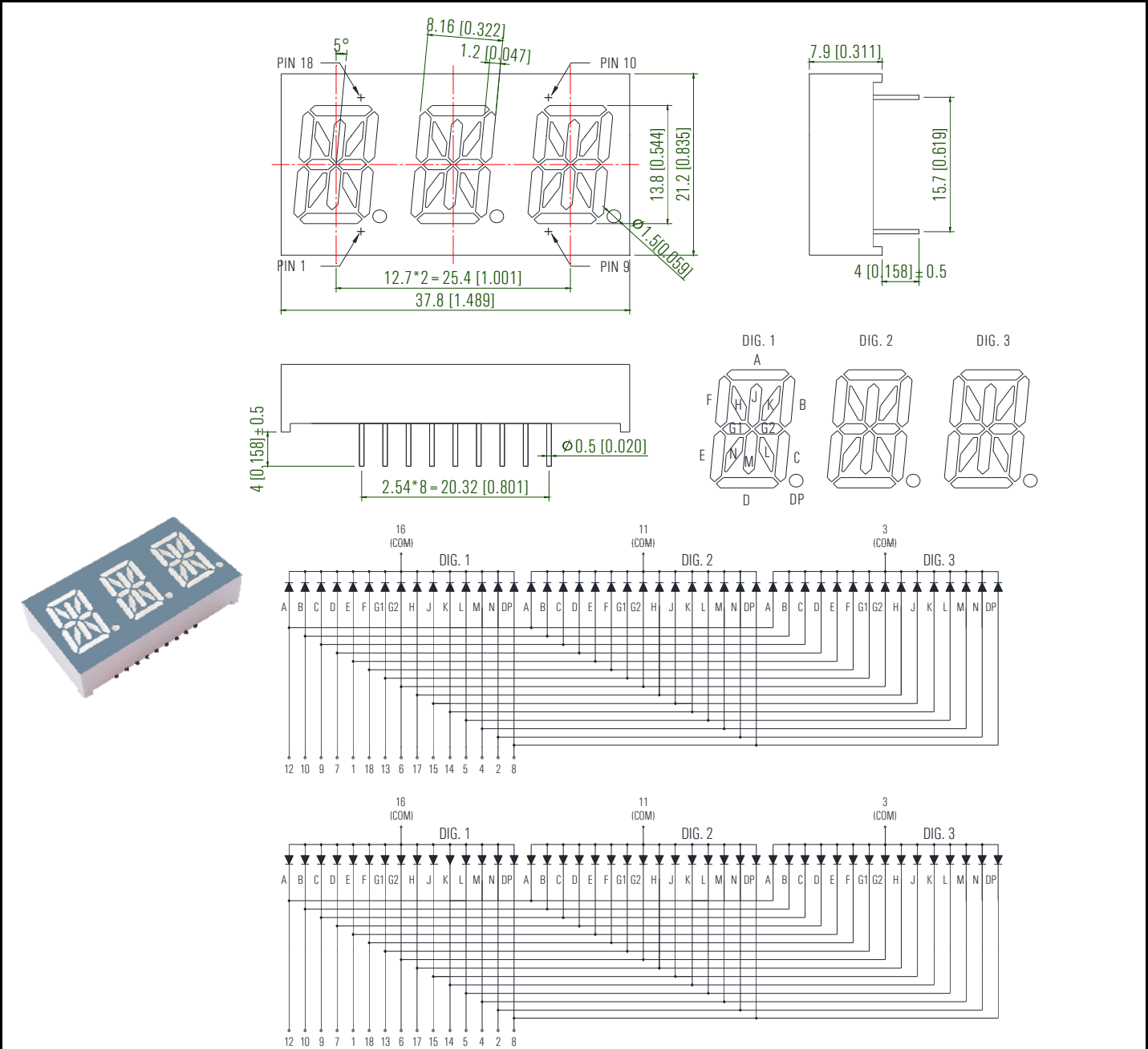


|                |              |                |      |    |       |                |
|----------------|--------------|----------------|------|----|-------|----------------|
| KWA3-391CRA    | Deep Red     | 630            | Gray | 20 | 30.0  | Common Cathode |
| KWA3-391CAA    | Orange       | 605            |      |    | 30.0  |                |
| KWA3-391CGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KWA3-391CGA-G5 | Pure Green   | 525            |      |    | 100.0 |                |
| KWA3-391CBA    | Blue         | 470            |      |    | 34.0  |                |
| KWA3-391CWA-Y  | White        | x=0.30, y=0.31 |      |    | 120.0 |                |
| KWA3-391ARA    | Deep Red     | 630            |      |    | 30.0  | Common Anode   |
| KWA3-391AAA    | Orange       | 605            |      |    | 30.0  |                |
| KWA3-391AGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KWA3-391AGA-G5 | Pure Green   | 525            |      |    | 100.0 |                |
| KWA3-391ABA    | Blue         | 470            |      |    | 34.0  |                |
| KWA3-391AWA-Y  | White        | x=0.30, y=0.31 |      |    | 120.0 |                |



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

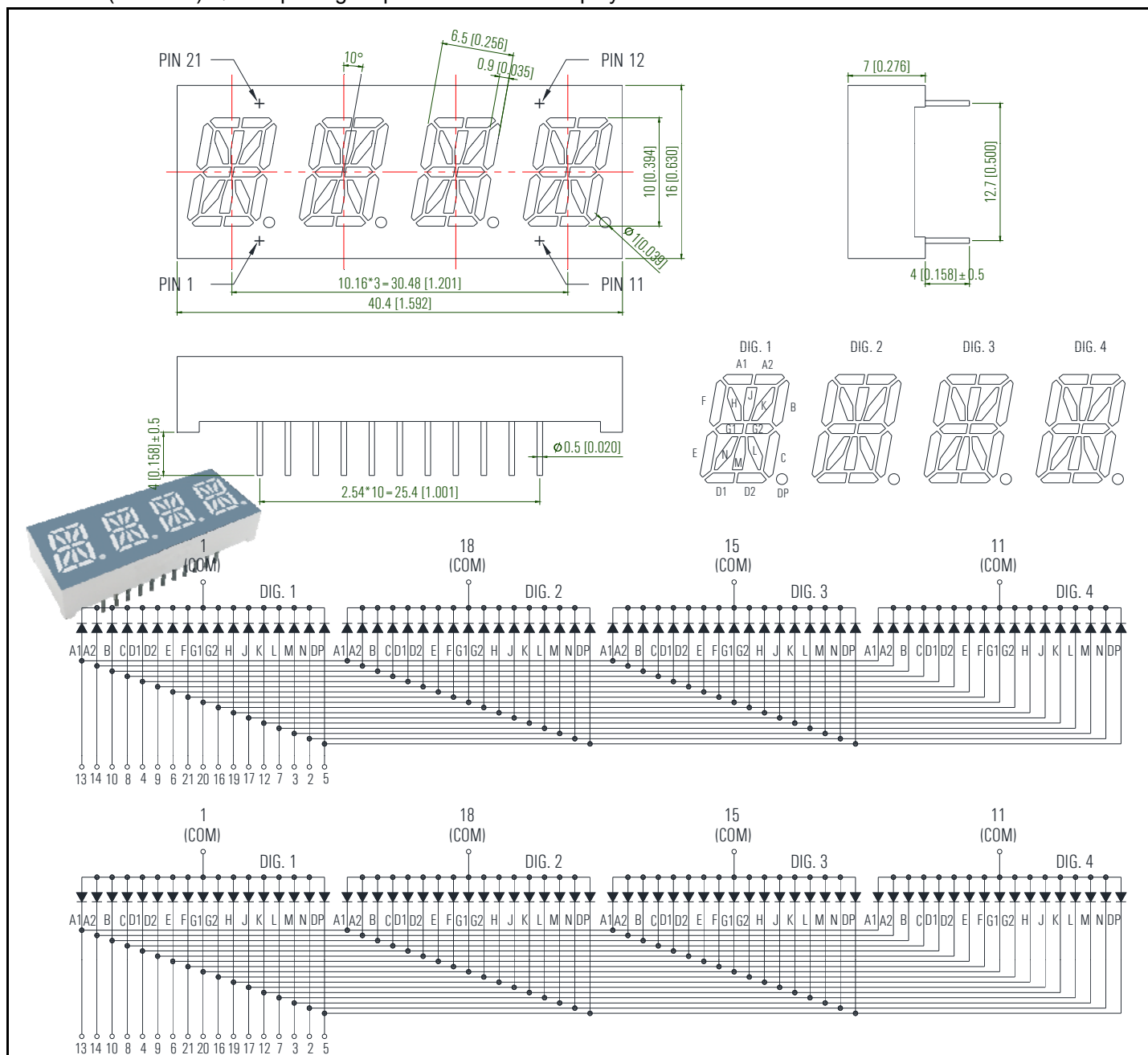
13.80mm (0.54inch) Triple Digit Alphanumeric LED Display



|                |              |                |      |    |       |                |
|----------------|--------------|----------------|------|----|-------|----------------|
| KWA3-541CRA    | Deep Red     | 630            | Gray | 20 | 32.0  | Common Cathode |
| KWA3-541CAA    | Orange       | 605            |      |    | 34.0  |                |
| KWA3-541CGA    | Yellow Green | 572            |      |    | 26.0  |                |
| KWA3-541CGA-G5 | Pure Green   | 525            |      |    | 104.0 |                |
| KWA3-541CBA    | Blue         | 470            |      |    | 36.0  |                |
| KWA3-541CWA    | White        | x=0.30, y=0.31 |      |    | 160.0 | Common Anode   |
| KWA3-541ARA    | Deep Red     | 630            |      |    | 32.0  |                |
| KWA3-541AAA    | Orange       | 605            |      |    | 34.0  |                |
| KWA3-541AGA    | Yellow Green | 572            |      |    | 26.0  |                |
| KWA3-541AGA-G5 | Pure Green   | 525            |      |    | 104.0 |                |
| KWA3-541ABA    | Blue         | 470            |      |    | 36.0  |                |
| KWA3-541AWA    | White        | x=0.30, y=0.31 |      |    | 160.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

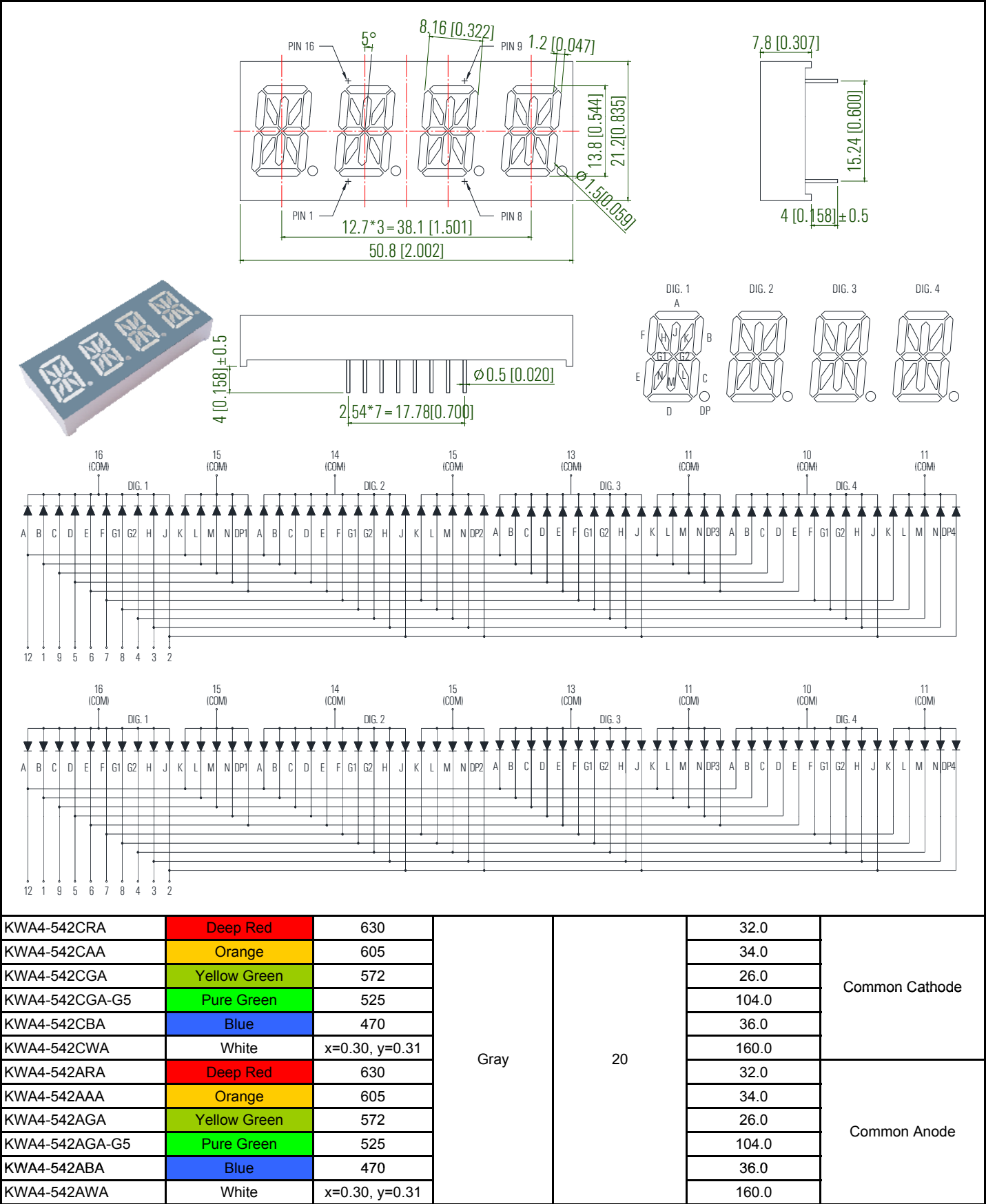
# 10.00mm (0.39inch) Quadruple Digit Alphanumeric LED Display



|                |              |                |      |    |       |                |
|----------------|--------------|----------------|------|----|-------|----------------|
| KWA4-391CRA    | Deep Red     | 630            | Gray | 20 | 30.0  | Common Cathode |
| KWA4-391CAA    | Orange       | 605            |      |    | 30.0  |                |
| KWA4-391CGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KWA4-391CGA-G5 | Pure Green   | 525            |      |    | 100.0 |                |
| KWA4-391CBA    | Blue         | 470            |      |    | 34.0  |                |
| KWA4-391CWA-Y  | White        | x=0.30, y=0.31 |      |    | 120.0 |                |
| KWA4-391ARA    | Deep Red     | 630            |      |    | 30.0  | Common Anode   |
| KWA4-391AAA    | Orange       | 605            |      |    | 30.0  |                |
| KWA4-391AGA    | Yellow Green | 572            |      |    | 25.0  |                |
| KWA4-391AGA-G5 | Pure Green   | 525            |      |    | 100.0 |                |
| KWA4-391ABA    | Blue         | 470            |      |    | 34.0  |                |
| KWA4-391AWA-Y  | White        | x=0.30, y=0.31 |      |    | 120.0 |                |

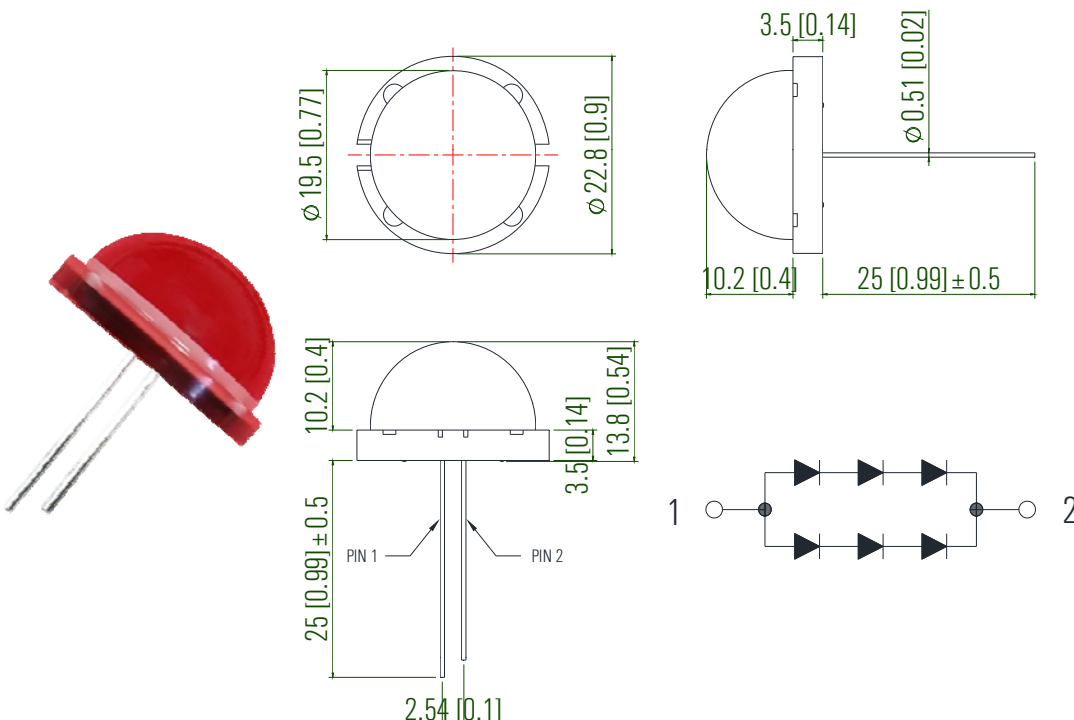
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

13.80mm (0.54inch) Quadruple Digit Alphanumeric LED Display



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

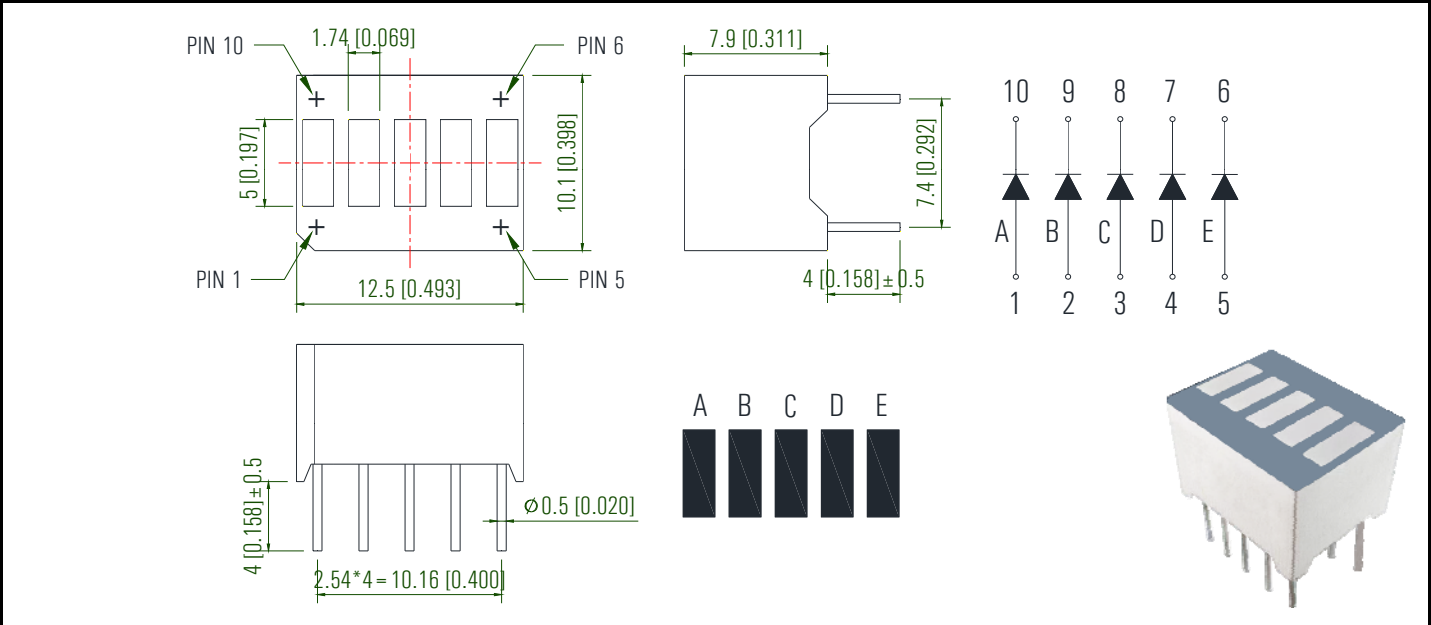
Φ19.5mm Round With Flange Type

|                                                                                     |              |                |        |    |       |     |
|-------------------------------------------------------------------------------------|--------------|----------------|--------|----|-------|-----|
|  |              |                |        |    |       |     |
| 200RD-AP25                                                                          | Deep Red     | 630            | Red    | 20 | 50.0  | --- |
| 200AD-AP25                                                                          | Orange       | 605            | Orange |    | 50.0  | --- |
| 200GD-AP25                                                                          | Yellow Green | 572            | Green  |    | 25.0  | --- |
| 200GD-G5-AP25                                                                       | Pure Green   | 525            | Green  |    | 120.0 | --- |
| 200BD-AP25                                                                          | Blue         | 470            | Blue   |    | 30.0  | --- |
| 200WD-AP25                                                                          | White        | x=0.30, y=0.31 | White  |    | 130.0 | --- |

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25$ mm (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

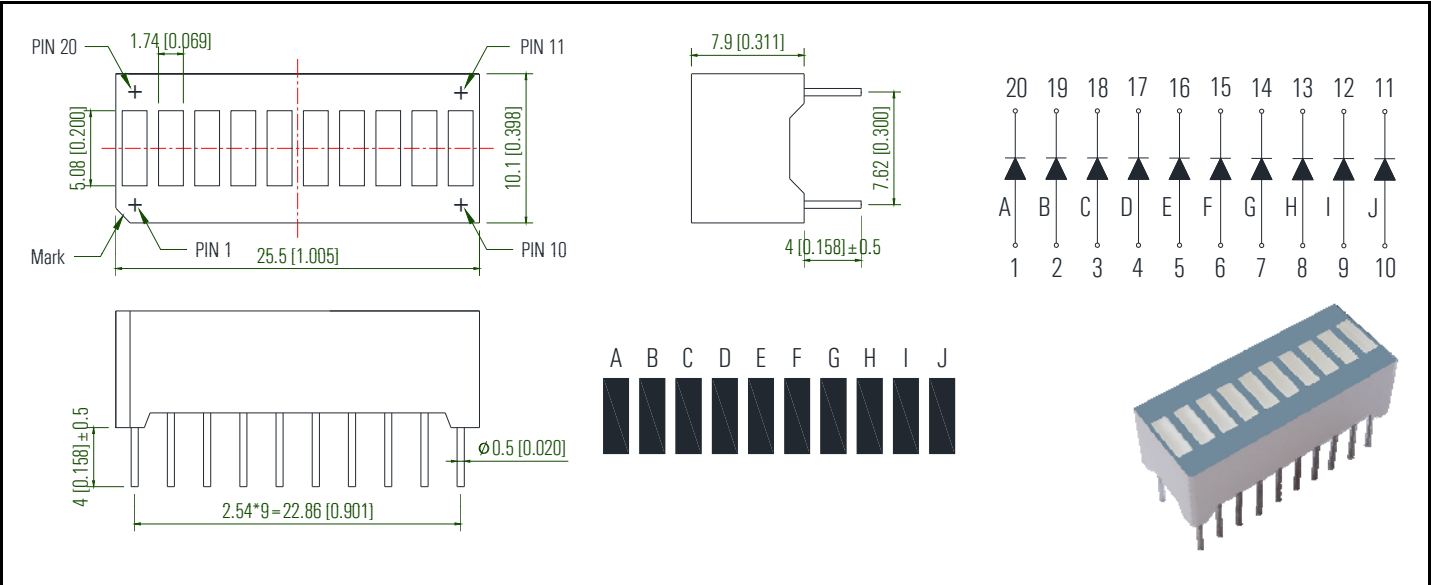
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

5 Segment Light Bar LED Display



|                |              |                |      |    |       |     |
|----------------|--------------|----------------|------|----|-------|-----|
| KWL-R1210RA    | Deep Red     | 630            | Gray | 20 | 28.0  | --- |
| KWL-R1210AA    | Orange       | 605            |      |    | 28.0  | --- |
| KWL-R1210GA    | Yellow Green | 572            |      |    | 20.0  | --- |
| KWL-R1210GA-G5 | Pure Green   | 525            |      |    | 80.0  | --- |
| KWL-R1210BA    | Blue         | 470            |      |    | 70.0  | --- |
| KWL-R1210WA    | White        | x=0.30, y=0.31 |      |    | 130.0 | --- |

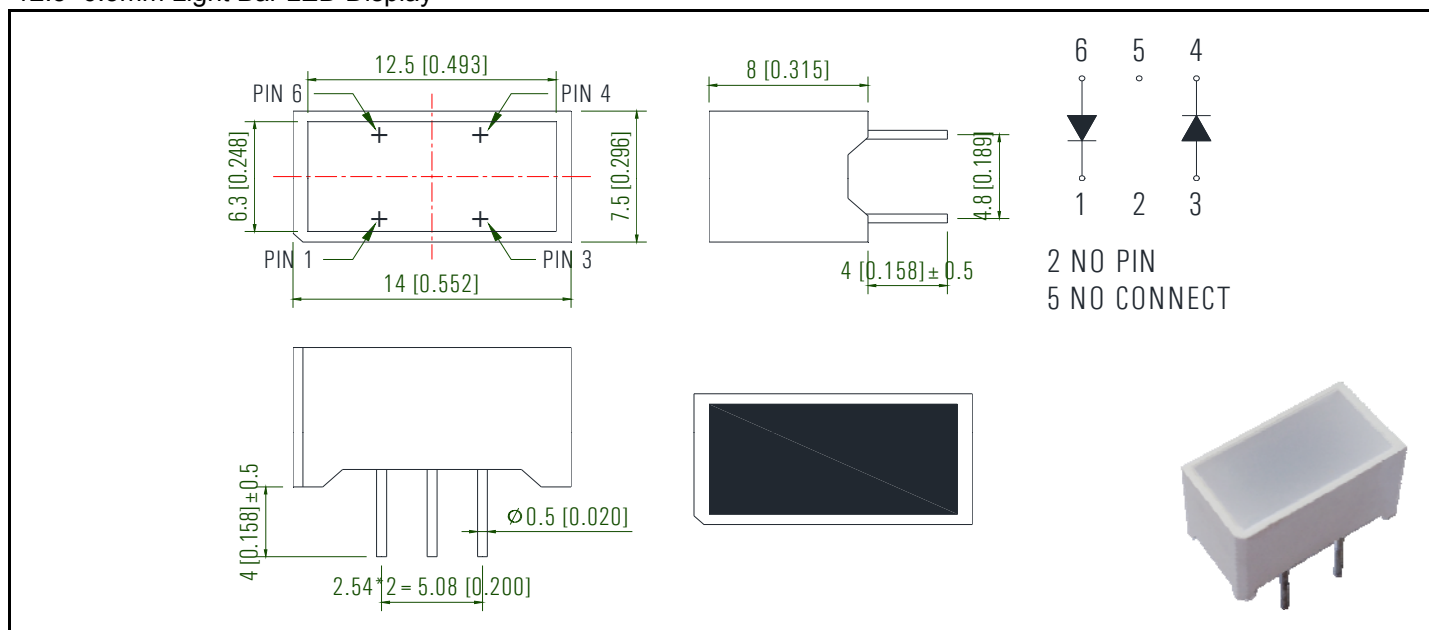
10 Segment Light Bar LED Display



|                |              |                |      |    |       |     |
|----------------|--------------|----------------|------|----|-------|-----|
| KWL-R1025RA    | Deep Red     | 630            | Gray | 20 | 28.0  | --- |
| KWL-R1025AA    | Orange       | 605            |      |    | 28.0  | --- |
| KWL-R1025GA    | Yellow Green | 572            |      |    | 20.0  | --- |
| KWL-R1025GA-G5 | Pure Green   | 525            |      |    | 80.0  | --- |
| KWL-R1025BA    | Blue         | 470            |      |    | 70.0  | --- |
| KWL-R1025WA    | White        | x=0.30, y=0.31 |      |    | 130.0 | --- |

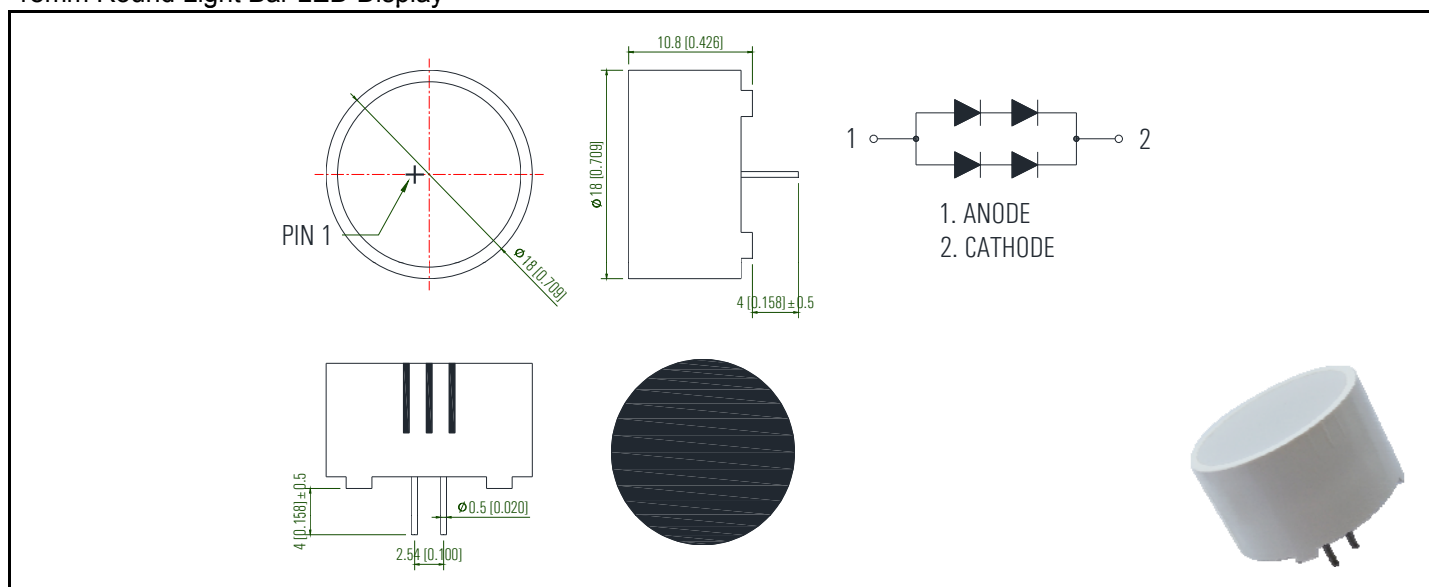
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

## 12.5×6.3mm Light Bar LED Display



|                |              |                |       |    |       |     |
|----------------|--------------|----------------|-------|----|-------|-----|
| KWL-R7141RW    | Deep Red     | 630            | White | 20 | 30.0  | --- |
| KWL-R7141AW    | Orange       | 605            |       |    | 30.0  | --- |
| KWL-R7141GW    | Yellow Green | 572            |       |    | 22.0  | --- |
| KWL-R7141GW-G5 | Pure Green   | 525            |       |    | 60.0  | --- |
| KWL-R7141BW    | Blue         | 470            |       |    | 36.0  | --- |
| KWL-R7141WW    | White        | x=0.30, y=0.31 |       |    | 130.0 | --- |

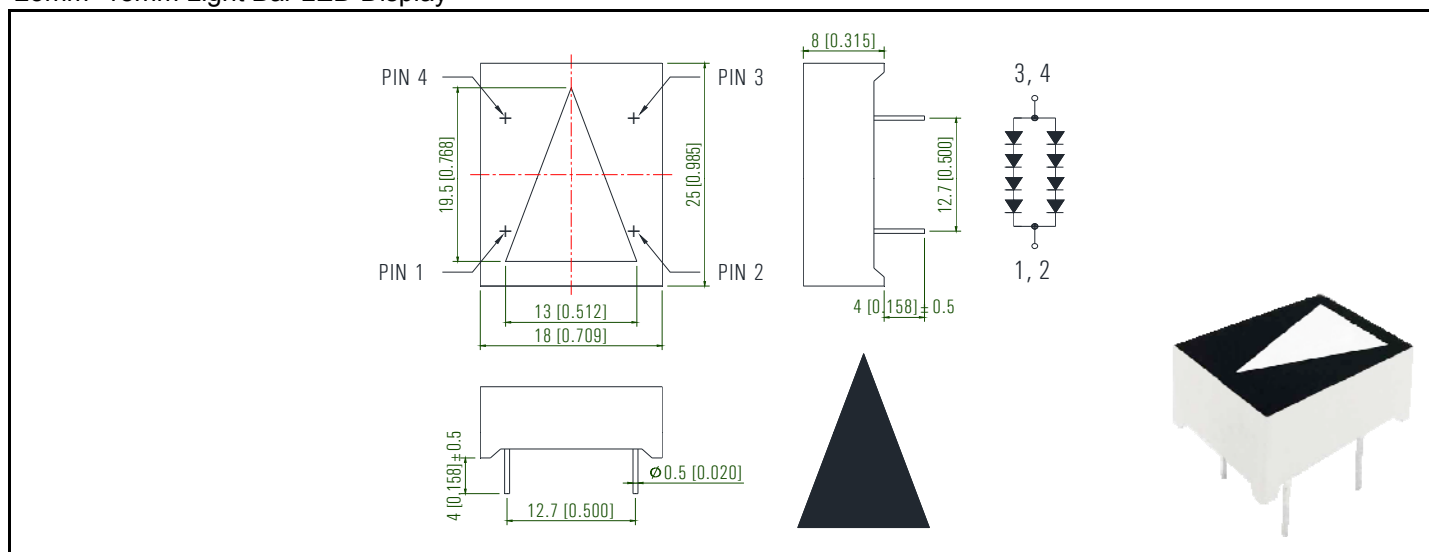
## 18mm Round Light Bar LED Display



|               |              |                |       |    |       |     |
|---------------|--------------|----------------|-------|----|-------|-----|
| KWL-C181RW    | Deep Red     | 630            | White | 20 | 32.0  | --- |
| KWL-C181AW    | Orange       | 605            |       |    | 32.0  | --- |
| KWL-C181GW    | Yellow Green | 572            |       |    | 24.0  | --- |
| KWL-C181GW-G5 | Pure Green   | 525            |       |    | 80.0  | --- |
| KWL-C181BW    | Blue         | 470            |       |    | 38.0  | --- |
| KWL-C181WW    | White        | x=0.30, y=0.31 |       |    | 160.0 | --- |

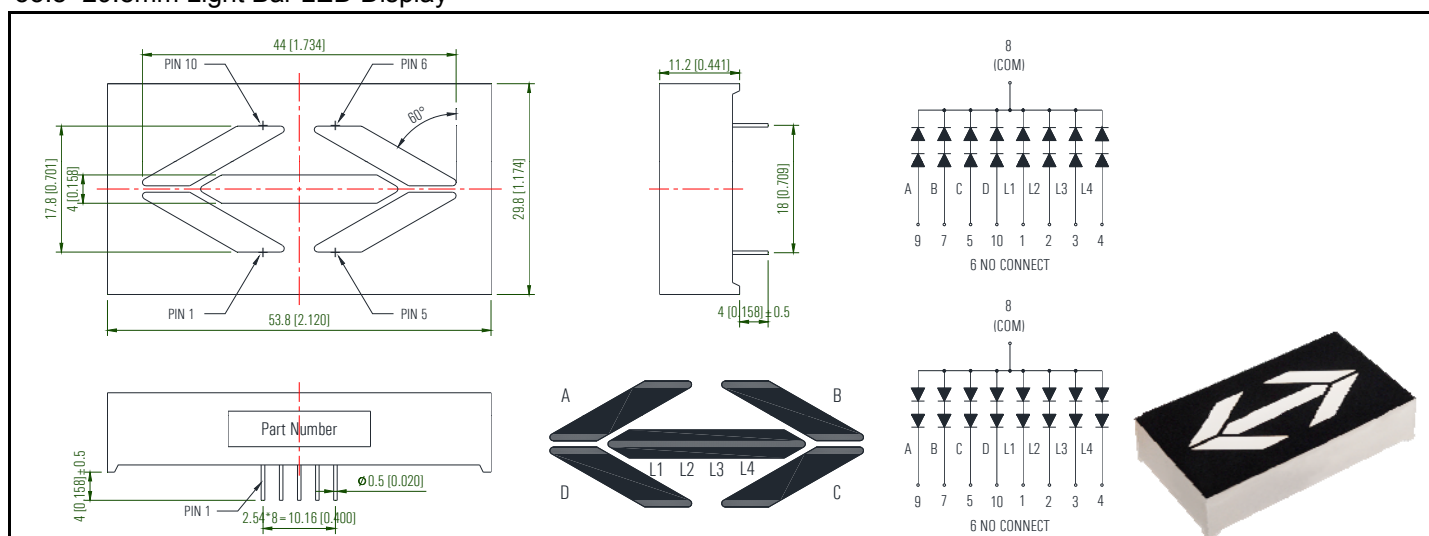
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

## 25mm×18mm Light Bar LED Display



|               |              |                |       |    |       |     |
|---------------|--------------|----------------|-------|----|-------|-----|
| KWL-8011RB    | Deep Red     | 630            | Black | 20 | 40.0  | --- |
| KWL-8011AB    | Orange       | 605            |       |    | 50.0  | --- |
| KWL-8011GB    | Yellow Green | 572            |       |    | 20.0  | --- |
| KWL-8011GB-G5 | Pure Green   | 525            |       |    | 100.0 | --- |
| KWL-8011BB    | Blue         | 470            |       |    | 80.0  | --- |
| KWL-8011WB    | White        | x=0.30, y=0.31 |       |    | 100.0 | --- |

## 53.8×29.8mm Light Bar LED Display

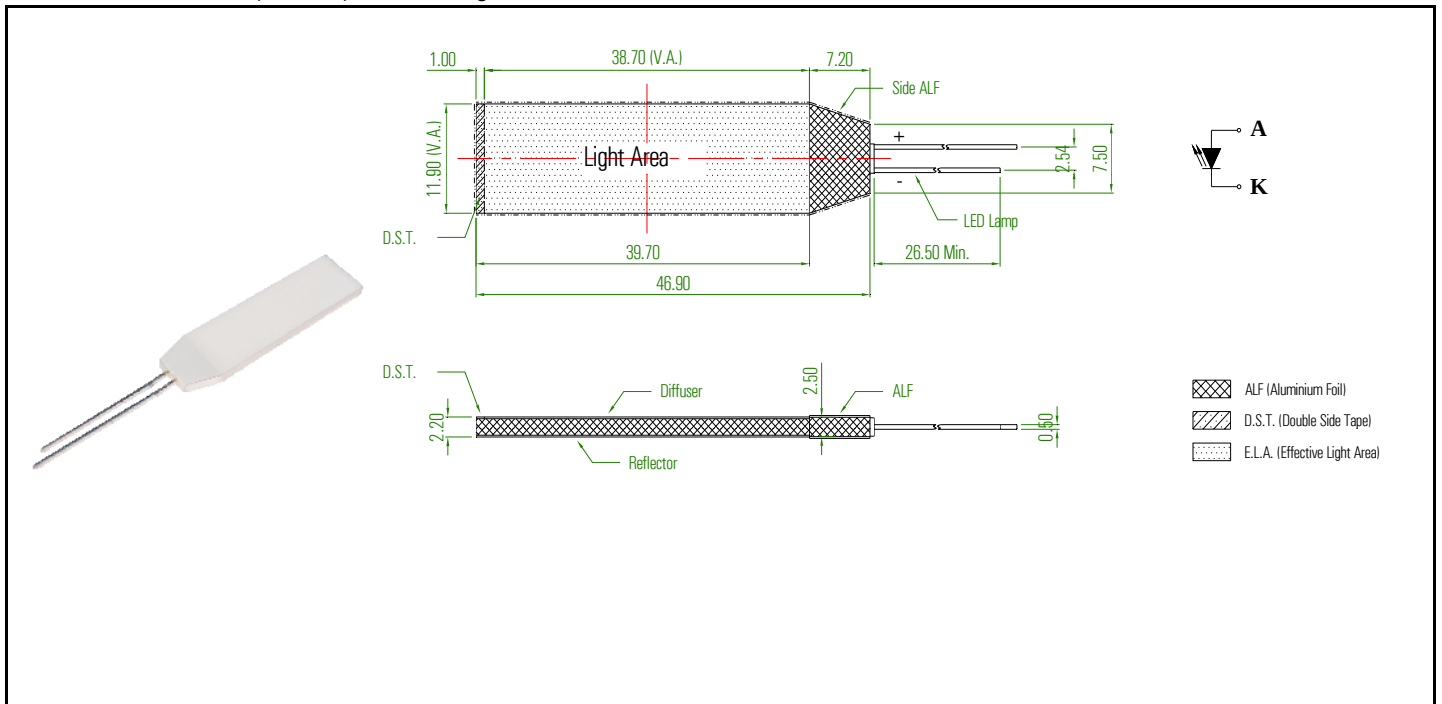


|                 |              |                |       |    |       |                |
|-----------------|--------------|----------------|-------|----|-------|----------------|
| KWL-18021CRB    | Deep Red     | 630            | Black | 20 | 40.0  | Common Cathode |
| KWL-18021CAB    | Orange       | 605            |       |    | 50.0  |                |
| KWL-18021CGB    | Yellow Green | 572            |       |    | 20.0  |                |
| KWL-18021CGB-G5 | Pure Green   | 525            |       |    | 100.0 |                |
| KWL-18021CBB    | Blue         | 470            |       |    | 80.0  |                |
| KWL-18021CWB    | White        | x=0.30, y=0.31 |       |    | 100.0 | Common Anode   |
| KWL-18021ARB    | Deep Red     | 630            |       |    | 40.0  |                |
| KWL-18021AAB    | Orange       | 605            |       |    | 50.0  |                |
| KWL-18021AGB    | Yellow Green | 572            |       |    | 20.0  |                |
| KWL-18021AGB-G5 | Pure Green   | 525            |       |    | 100.0 |                |
| KWL-18021ABB    | Blue         | 470            |       |    | 80.0  |                |
| KWL-18021AWB    | White        | x=0.30, y=0.31 |       |    | 100.0 |                |

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25\text{mm}$  (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

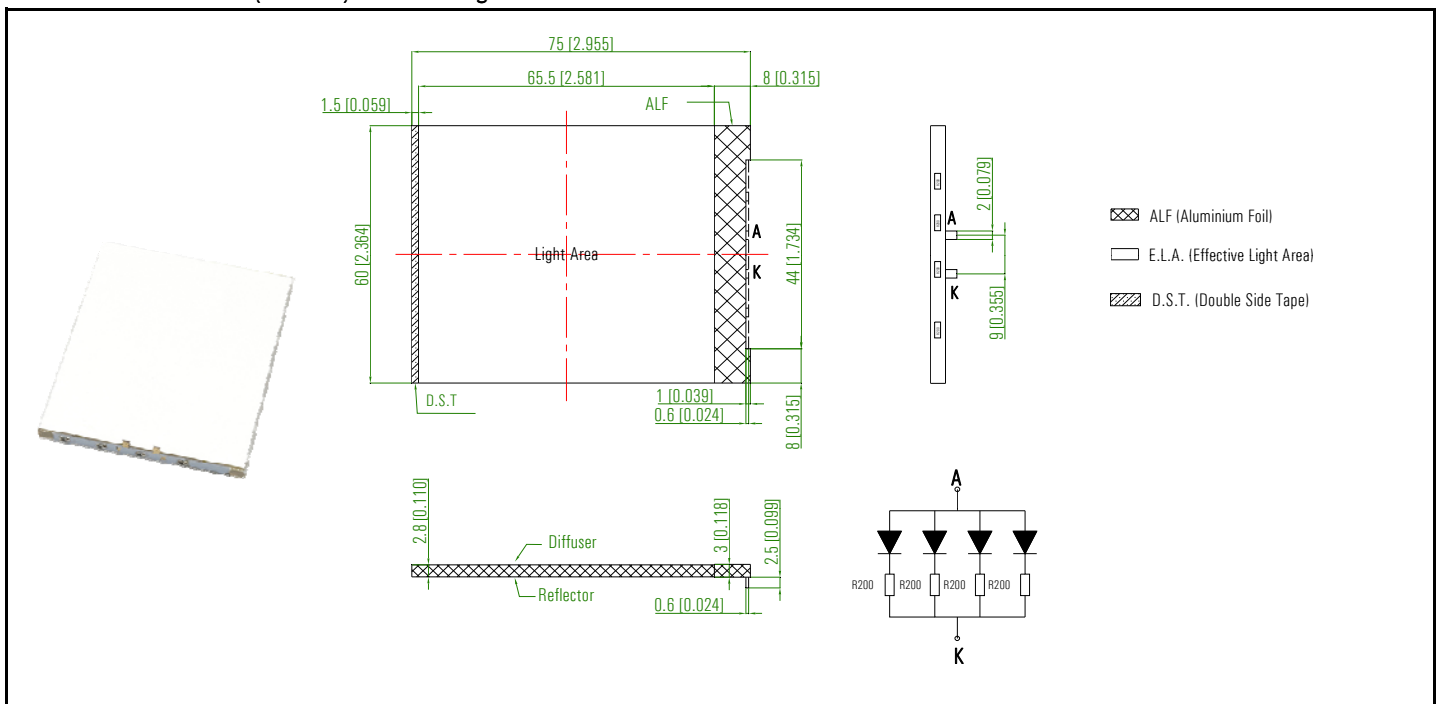
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (cd/m <sup>2</sup> ) / Lux |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------------------------------|------|----------------|
|             |                |                            |            | IF=mA                                               | Typ. |                |

38.70×11.90×2.20mm (L×W×H) LCD Backlight



|              |       |                |                |    |       |     |
|--------------|-------|----------------|----------------|----|-------|-----|
| KWB-R3912-1B | Blue  | 470            | White Diffused | 10 | 70.0  | --- |
| KWB-R3912-1W | White | x=0.30, y=0.31 |                |    | 100.0 | --- |

65.50×60.00×2.80mm (L×W×H) LCD Backlight

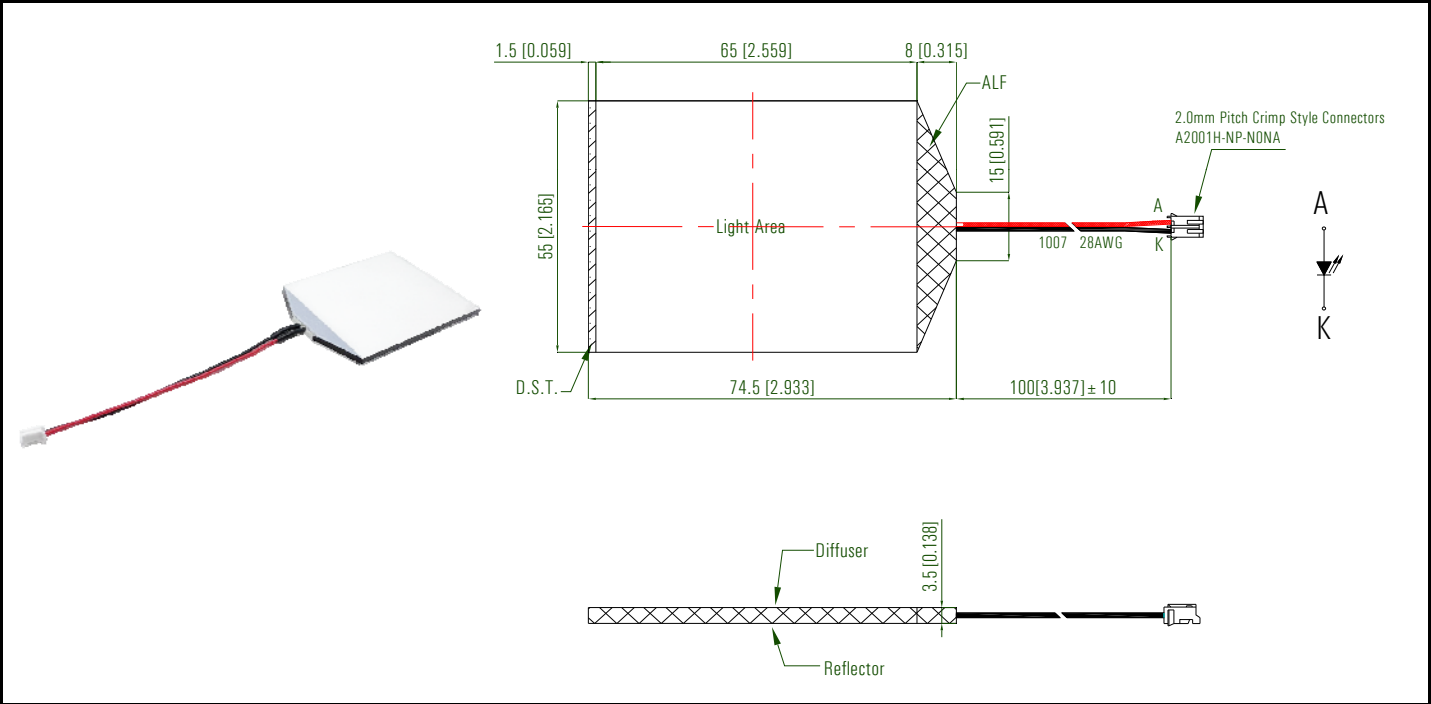


|               |       |                |                |    |       |     |
|---------------|-------|----------------|----------------|----|-------|-----|
| KWB-R6560-P4B | Blue  | 470            | White Diffused | 10 | 350.0 | --- |
| KWB-R6560-P4W | White | x=0.30, y=0.31 |                |    | 500.0 | --- |



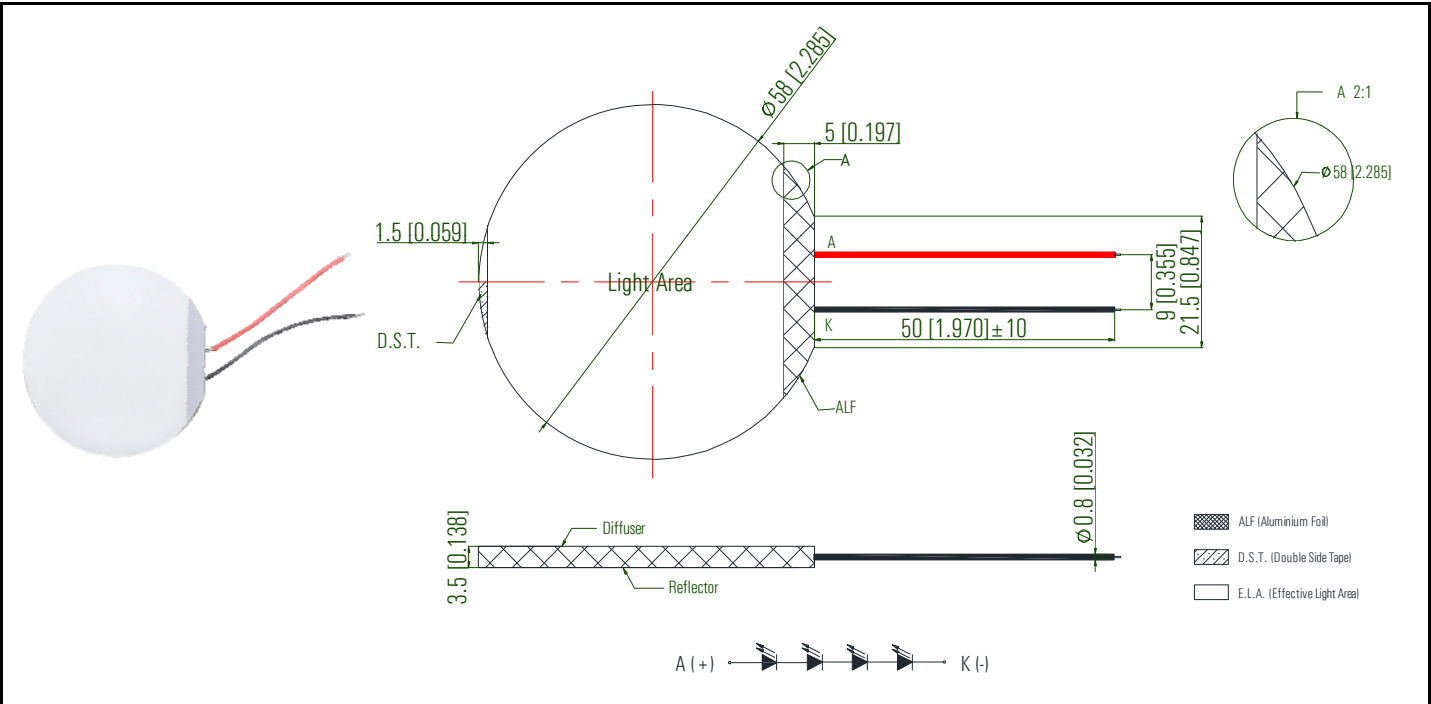
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (cd/m²) / Lux |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-------------------------------------|------|----------------|
|             |                |                            |            | IF=mA                               | Typ. |                |

65.0×55.0×3.5mm (L×W×H) LCD Backlight



|                     |       |                |                |    |       |     |
|---------------------|-------|----------------|----------------|----|-------|-----|
| KWB-R6555-1B-L100-C | Blue  | 470            | White Diffused | 10 | 50.0  | --- |
| KWB-R6555-1W-L100-C | White | x=0.30, y=0.31 |                |    | 130.0 | --- |

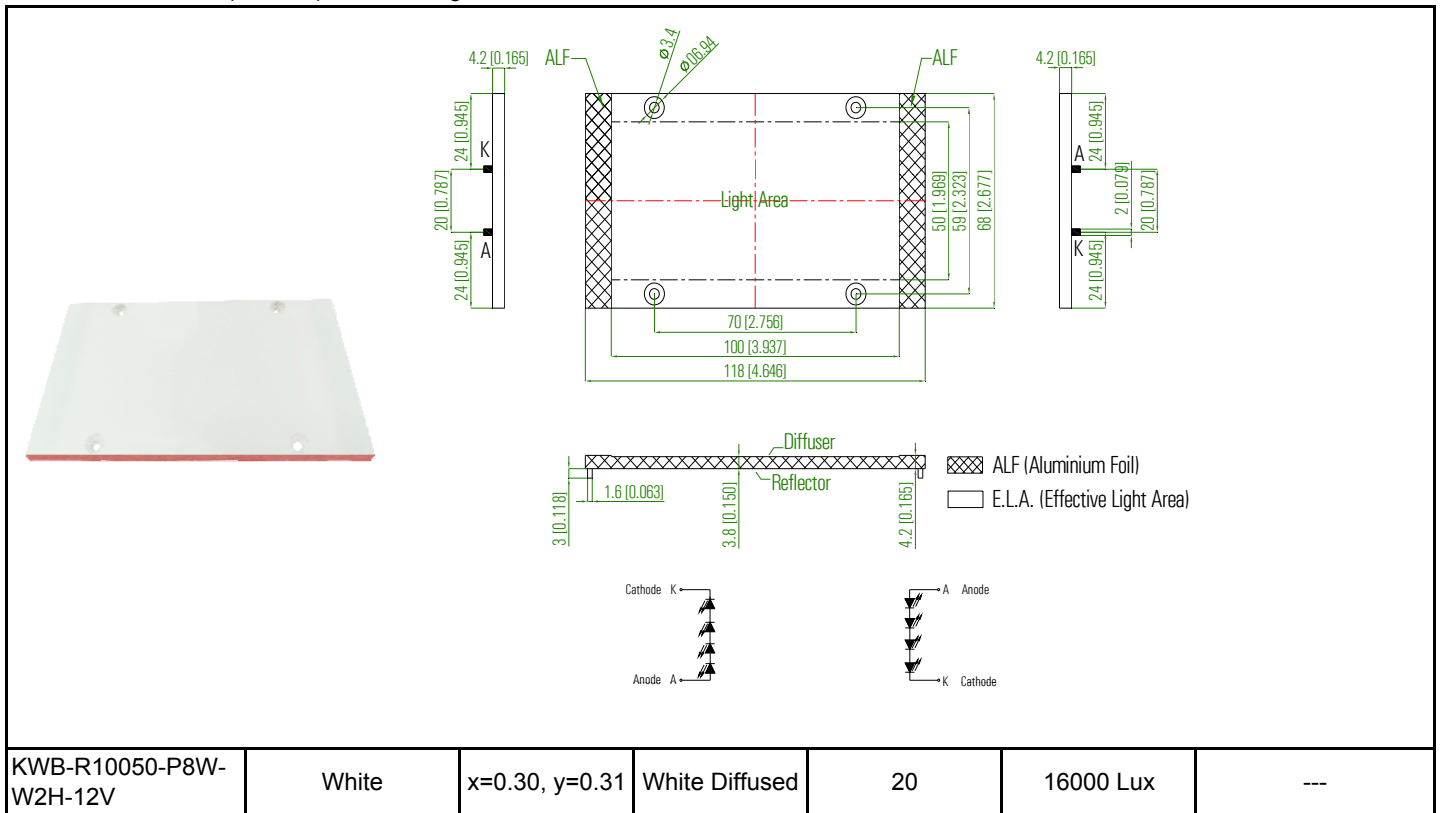
58mm Round LCD Backlight



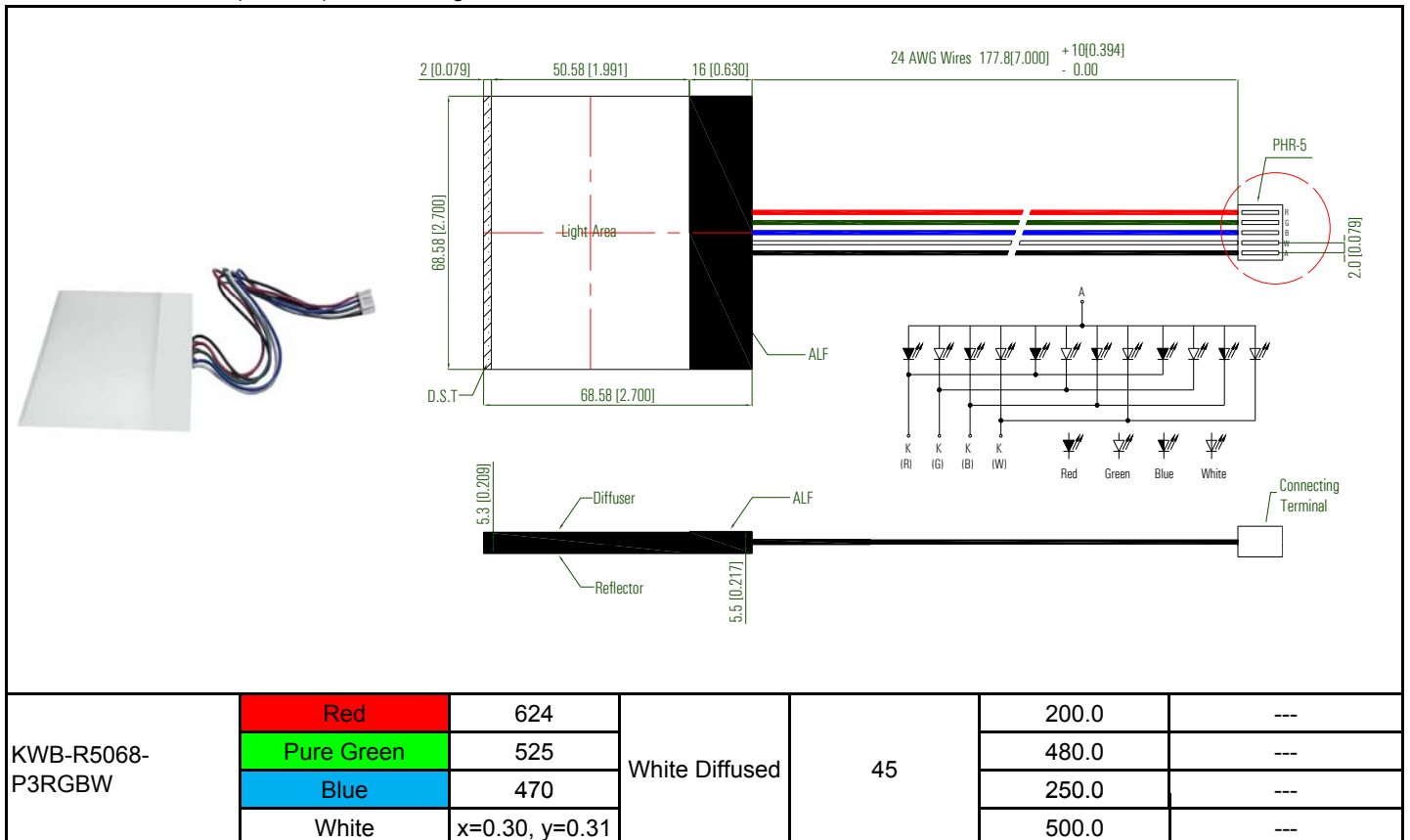
|                 |       |                |                |    |       |     |
|-----------------|-------|----------------|----------------|----|-------|-----|
| KWB-C583-4B-L50 | Blue  | 470            | White Diffused | 10 | 200.0 | --- |
| KWB-C583-4W-L50 | White | x=0.30, y=0.31 |                |    | 550.0 | --- |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (cd/m <sup>2</sup> ) / Lux |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------------------------------|------|----------------|
|             |                |                            |            | IF=mA                                               | Typ. |                |

100.0×50.0×4.2mm (L×W×H) LCD Backlight

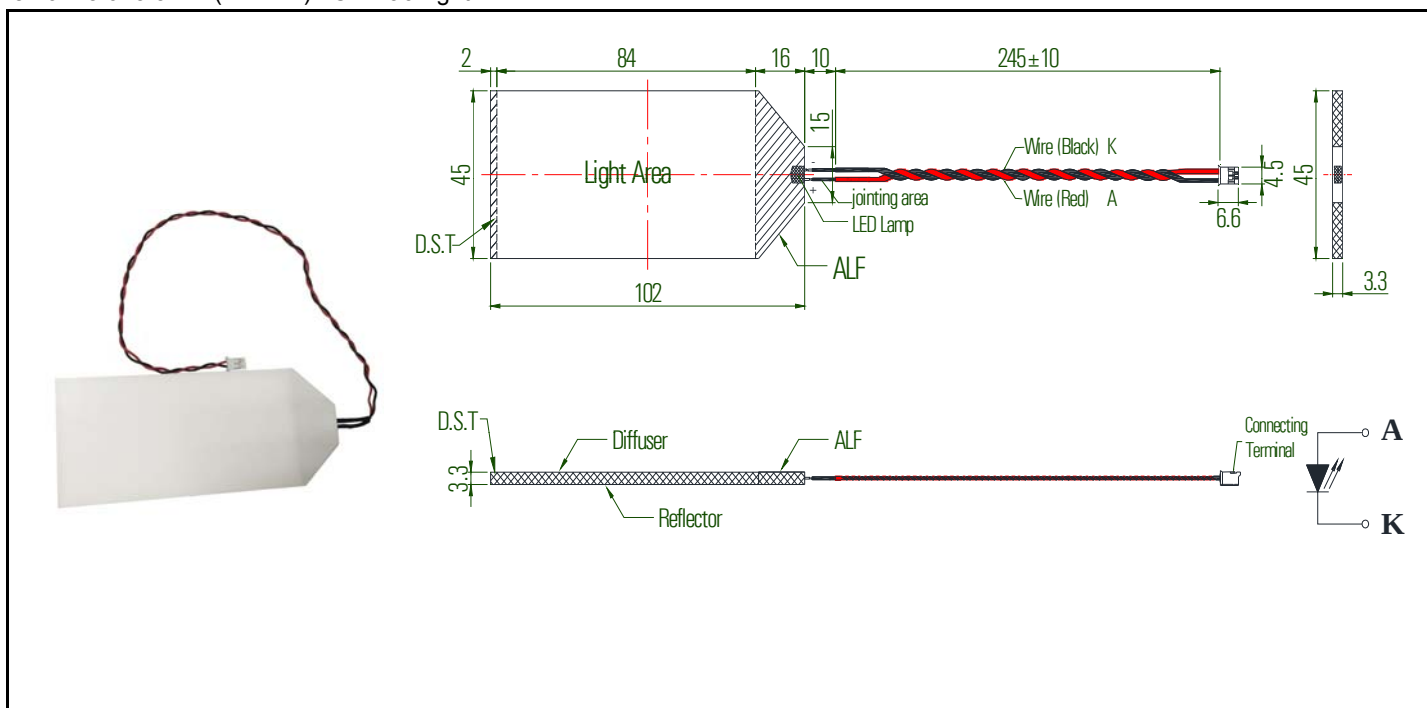


50.58×68.58×5.5mm (L×W×H) LCD Backlight



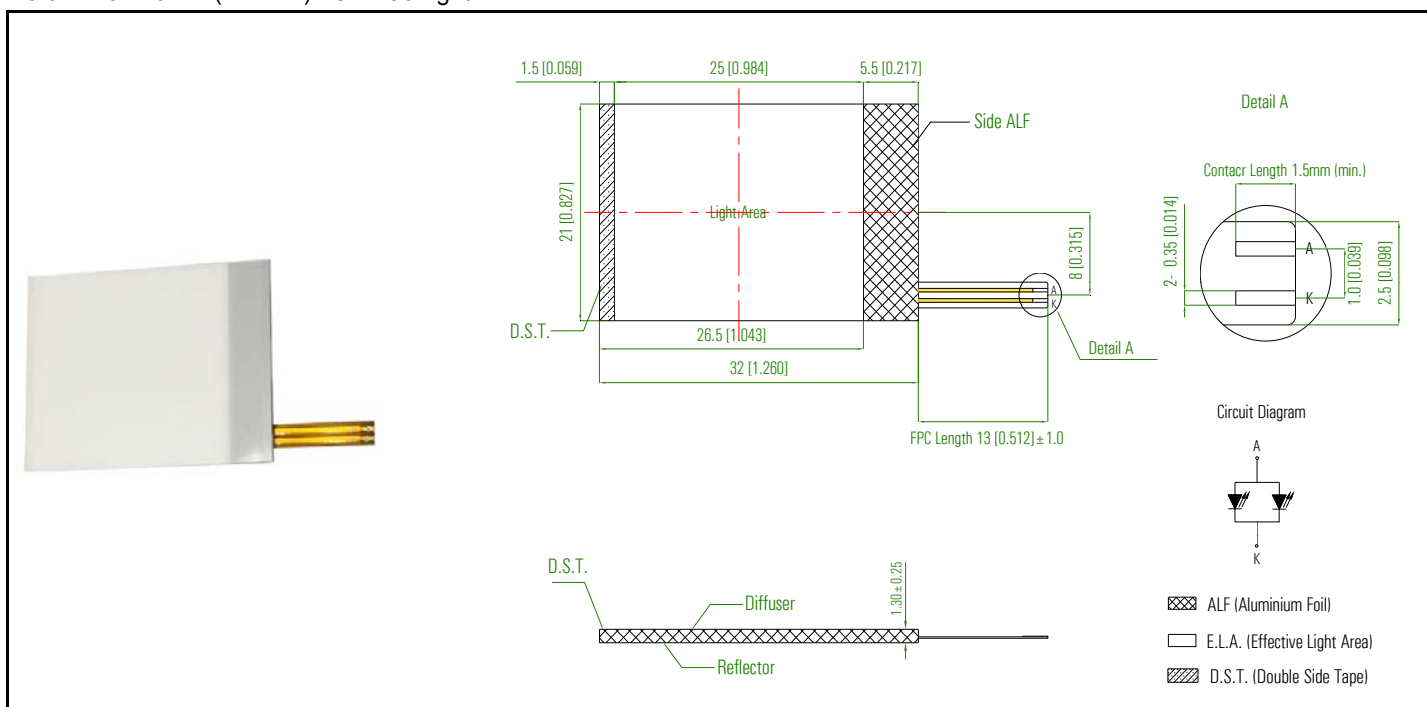
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (cd/m²) / Lux |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-------------------------------------|------|----------------|
|             |                |                            |            | IF=mA                               | Typ. |                |

84.0×45.0×3.3mm (L×W×H) LCD Backlight



|                      |       |                |                |    |       |     |
|----------------------|-------|----------------|----------------|----|-------|-----|
| KWB-R8445-1B-L245-CT | Blue  | 470            | White Diffused | 10 | 35.0  | --- |
| KWB-R8445-1W-L245-CT | White | x=0.30, y=0.31 |                |    | 120.0 | --- |

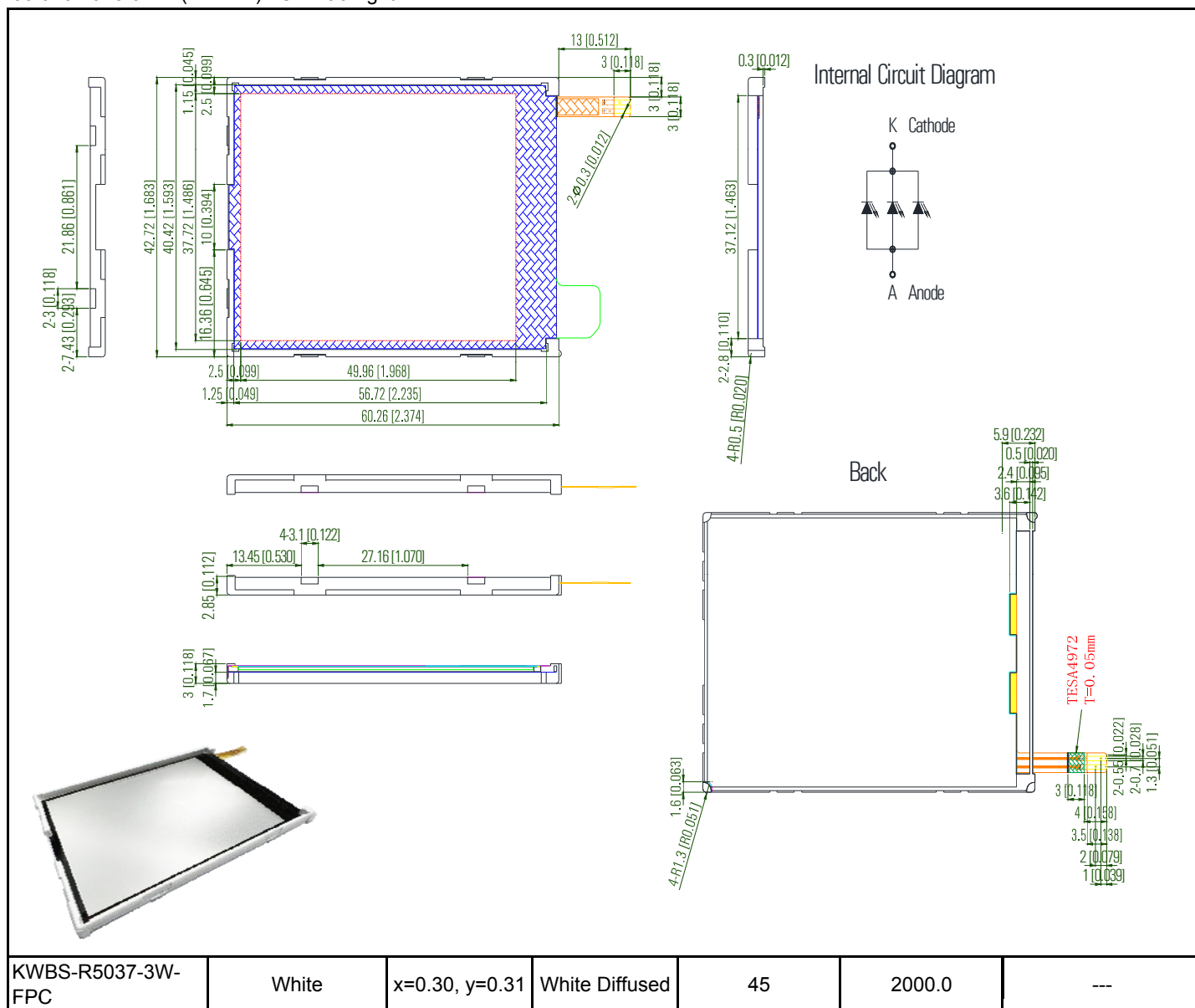
25.0×21.0×1.3mm (L×W×H) LCD Backlight



|                  |       |                |                |    |       |     |
|------------------|-------|----------------|----------------|----|-------|-----|
| KWB-R2521-2B-FPC | Blue  | 470            | White Diffused | 20 | 80.0  | --- |
| KWB-R2521-2W-FPC | White | x=0.30, y=0.31 |                |    | 200.0 | --- |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (cd/m²) / Lux |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-------------------------------------|------|----------------|
|             |                |                            |            | IF=mA                               | Typ. |                |

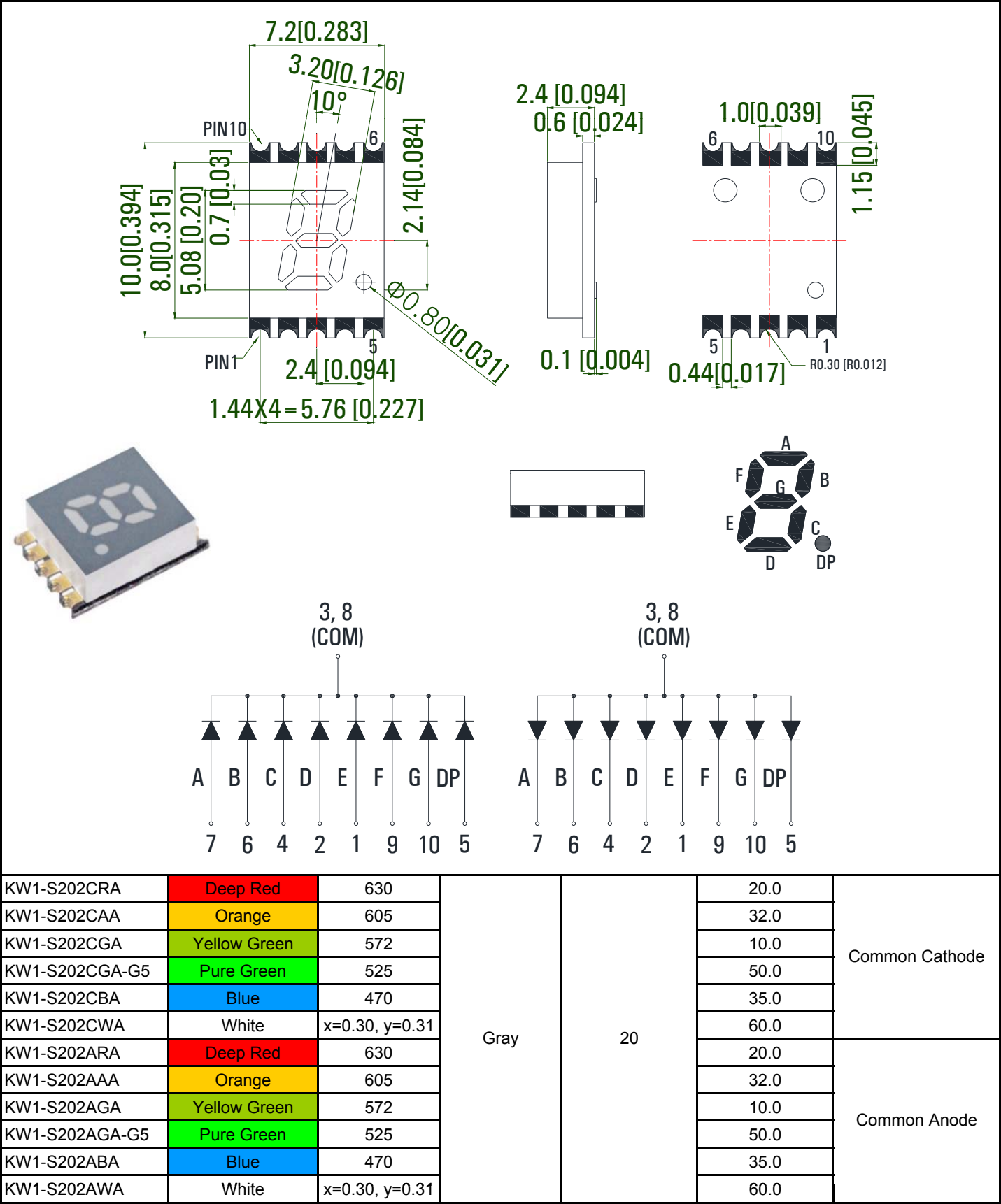
50.0×37.0×3.0mm (L×W×H) LCD Backlight



1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25\text{mm}$  (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity I <sub>v</sub> (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------------------|------|----------------|
|             |                |                            |            | IF=mA                                   | Typ. |                |

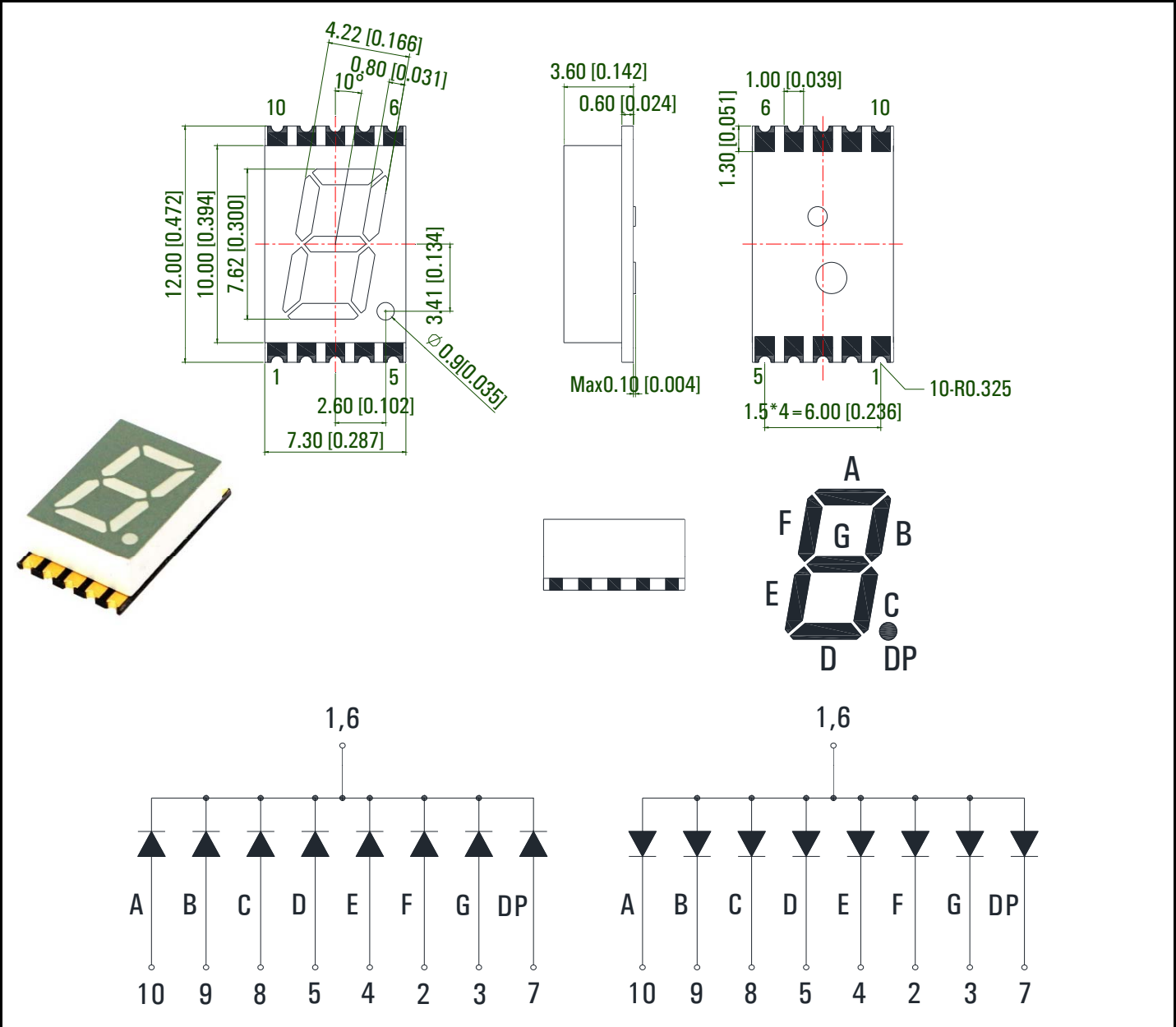
0.20" Single Digit SMD Display



|                |              |                |      |    |      |                |
|----------------|--------------|----------------|------|----|------|----------------|
| KW1-S281CRA    | Deep Red     | 630            | Gray | 20 | 26.0 | Common Cathode |
| KW1-S281CAA    | Orange       | 605            |      |    | 34.0 |                |
| KW1-S281CGA    | Yellow Green | 572            |      |    | 14.0 |                |
| KW1-S281CGA-G5 | Pure Green   | 525            |      |    | 55.0 |                |
| KW1-S281CBA    | Blue         | 470            |      |    | 48.0 |                |
| KW1-S281CWA    | White        | x=0.30, y=0.31 |      |    | 68.0 |                |
| KW1-S281ARA    | Deep Red     | 630            |      |    | 26.0 | Common Anode   |
| KW1-S281AAA    | Orange       | 605            |      |    | 34.0 |                |
| KW1-S281AGA    | Yellow Green | 572            |      |    | 14.0 |                |
| KW1-S281AGA-G5 | Pure Green   | 525            |      |    | 55.0 |                |
| KW1-S281ABA    | Blue         | 470            |      |    | 48.0 |                |
| KW1-S281AWA    | White        | x=0.30, y=0.31 |      |    | 68.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.30" Single Digit SMD Display



|                |              |                |      |    |      |                |
|----------------|--------------|----------------|------|----|------|----------------|
| KW1-S301CRA    | Deep Red     | 630            | Gray | 20 | 28.0 | Common Cathode |
| KW1-S301CAA    | Orange       | 605            |      |    | 36.0 |                |
| KW1-S301CGA    | Yellow Green | 572            |      |    | 16.0 |                |
| KW1-S301CGA-G5 | Pure Green   | 525            |      |    | 60.0 |                |
| KW1-S301CBA    | Blue         | 470            |      |    | 52.0 |                |
| KW1-S301CWA    | White        | x=0.30, y=0.31 |      |    | 70.0 | Common Anode   |
| KW1-S301ARA    | Deep Red     | 630            |      |    | 28.0 |                |
| KW1-S301AAA    | Orange       | 605            |      |    | 36.0 |                |
| KW1-S301AGA    | Yellow Green | 572            |      |    | 16.0 |                |
| KW1-S301AGA-G5 | Pure Green   | 525            |      |    | 60.0 |                |
| KW1-S301ABA    | Blue         | 470            |      |    | 52.0 |                |
| KW1-S301AWA    | White        | x=0.30, y=0.31 |      |    | 70.0 |                |

Technical drawing of the 0.8 inch LED display module showing top, side, and detail views with dimensions in mm and inches.

**Top View Dimensions:**

- Overall width: 15 [0.591]
- Overall height: 13 [0.512]
- Segment width: 6.2 [0.244]
- Segment height: 1.2 [0.047]
- Segment pitch: 10°
- Segment width (inner): 10
- Segment width (outer): 6
- Segment height (inner): 4.4 [0.173]
- Segment height (outer): 4.4 [0.173]
- Segment pitch (inner): 3.8 [0.150]
- Segment pitch (outer): 9.8 [0.386]
- Segment width (inner): 1
- Segment width (outer): 5

**Side View Dimensions:**

- Module height: 3.75 [0.148]
- Module width: 0.6 [0.024]
- Max 0.1 [0.004]

**Detail View Dimensions:**

- Segment width: 1.4 [0.055]
- Segment height: 1.1 [0.043]
- Segment pitch: 6
- Segment pitch: 10
- Segment pitch: 5
- Segment pitch: 1
- Segment pitch: 1.9 \* 4 = 7.6 [0.299]
- Segment pitch: 10-R0.5

**LED Pinout Diagram:**

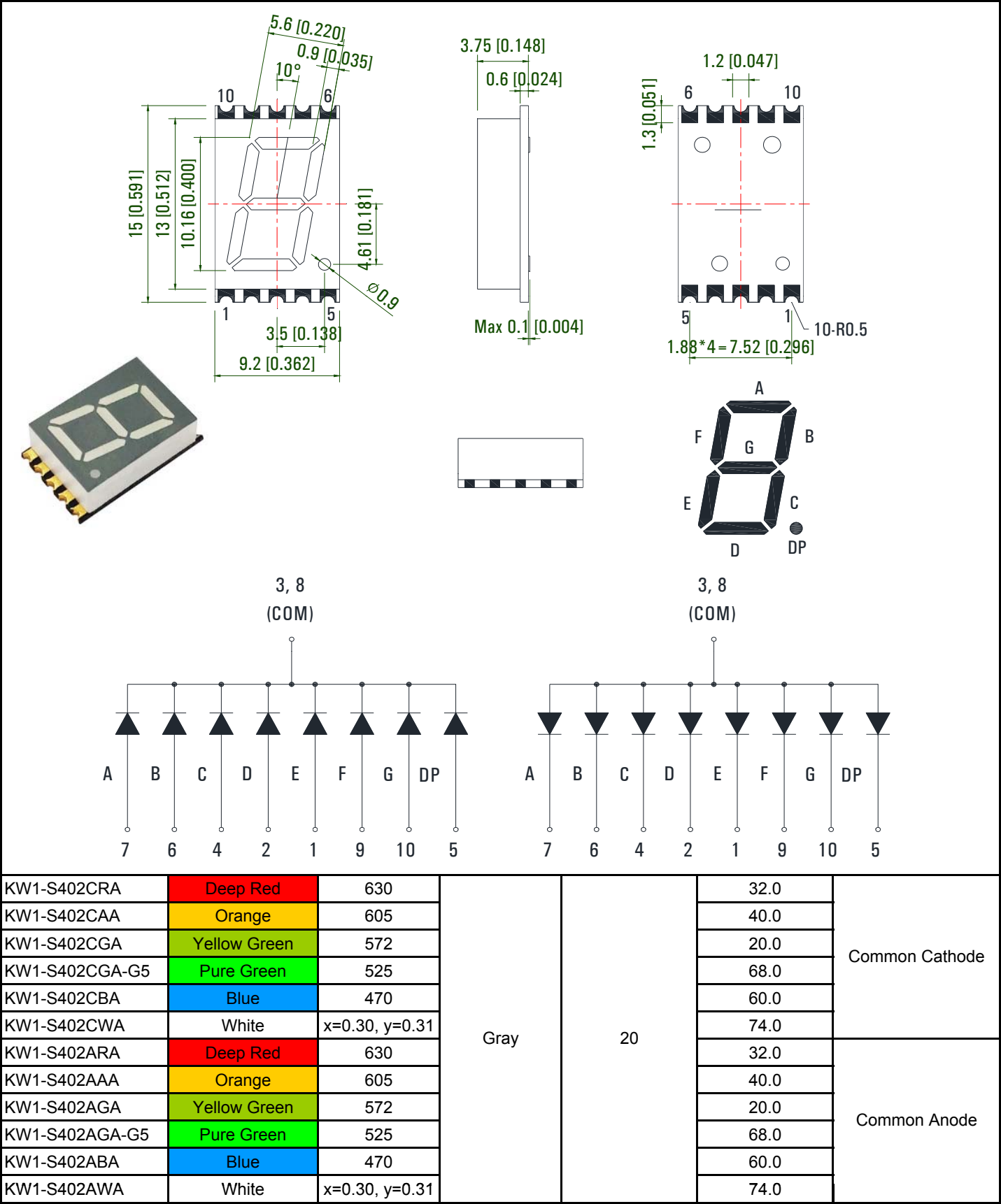
The diagram shows the LED pinout for the 0.8 inch LED display module. The pins are labeled A, B, C, D, E, F, G, and DP. The pin numbers are 7, 6, 4, 2, 1, 9, 10, and 5. The common pin is labeled 3, 8 (COM).

|                |              |                |      |    |      |                |
|----------------|--------------|----------------|------|----|------|----------------|
| KW1-S391CRA    | Deep Red     | 630            | Gray | 20 | 30.0 | Common Cathode |
| KW1-S391CAA    | Orange       | 605            |      |    | 38.0 |                |
| KW1-S391CGA    | Yellow Green | 572            |      |    | 18.0 |                |
| KW1-S391CGA-G5 | Pure Green   | 525            |      |    | 66.0 |                |
| KW1-S391CBA    | Blue         | 470            |      |    | 58.0 |                |
| KW1-S391CWA    | White        | x=0.30, y=0.31 |      |    | 72.0 |                |
| KW1-S391CRA    | Deep Red     | 630            |      |    | 30.0 | Common Anode   |
| KW1-S391AAA    | Orange       | 605            |      |    | 38.0 |                |
| KW1-S391AGA    | Yellow Green | 572            |      |    | 18.0 |                |
| KW1-S391AGA-G5 | Pure Green   | 525            |      |    | 66.0 |                |
| KW1-S391ABA    | Blue         | 470            |      |    | 58.0 |                |
| KW1-S391AWA    | White        | x=0.30, y=0.31 |      |    | 72.0 |                |



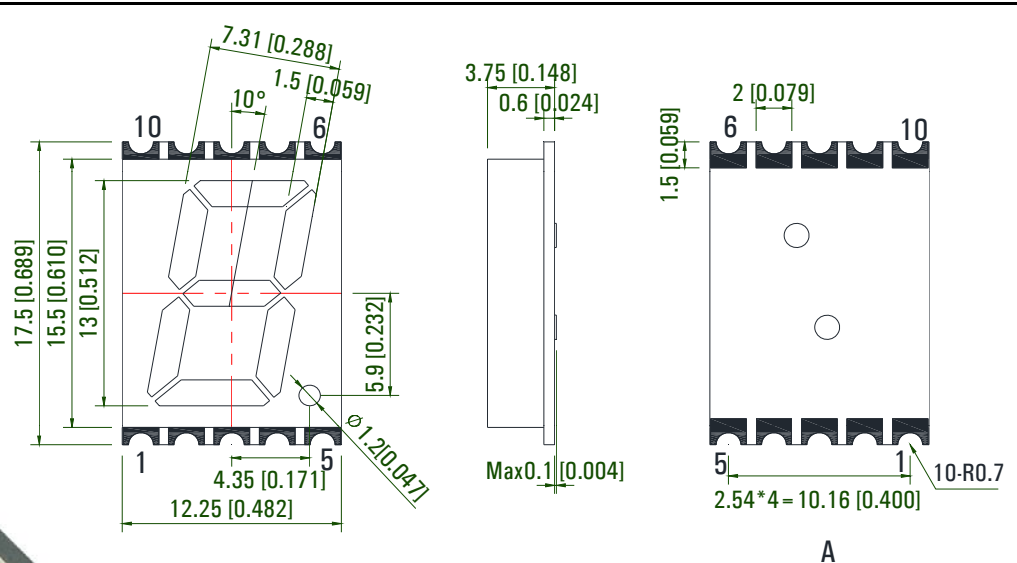
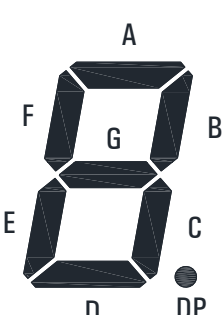
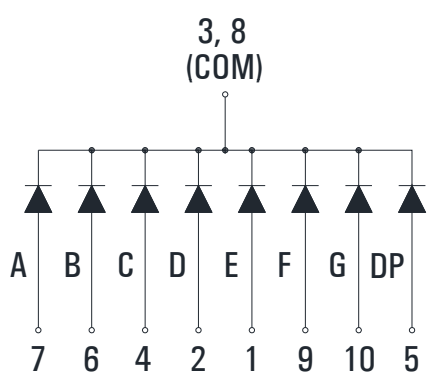
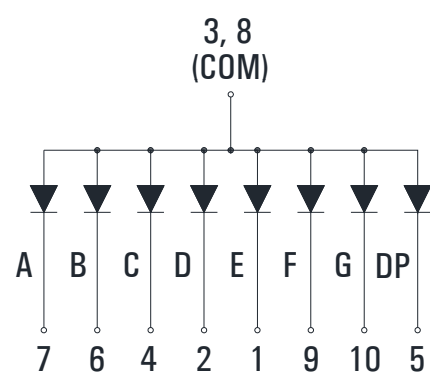
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.40" Single Digit SMD Display



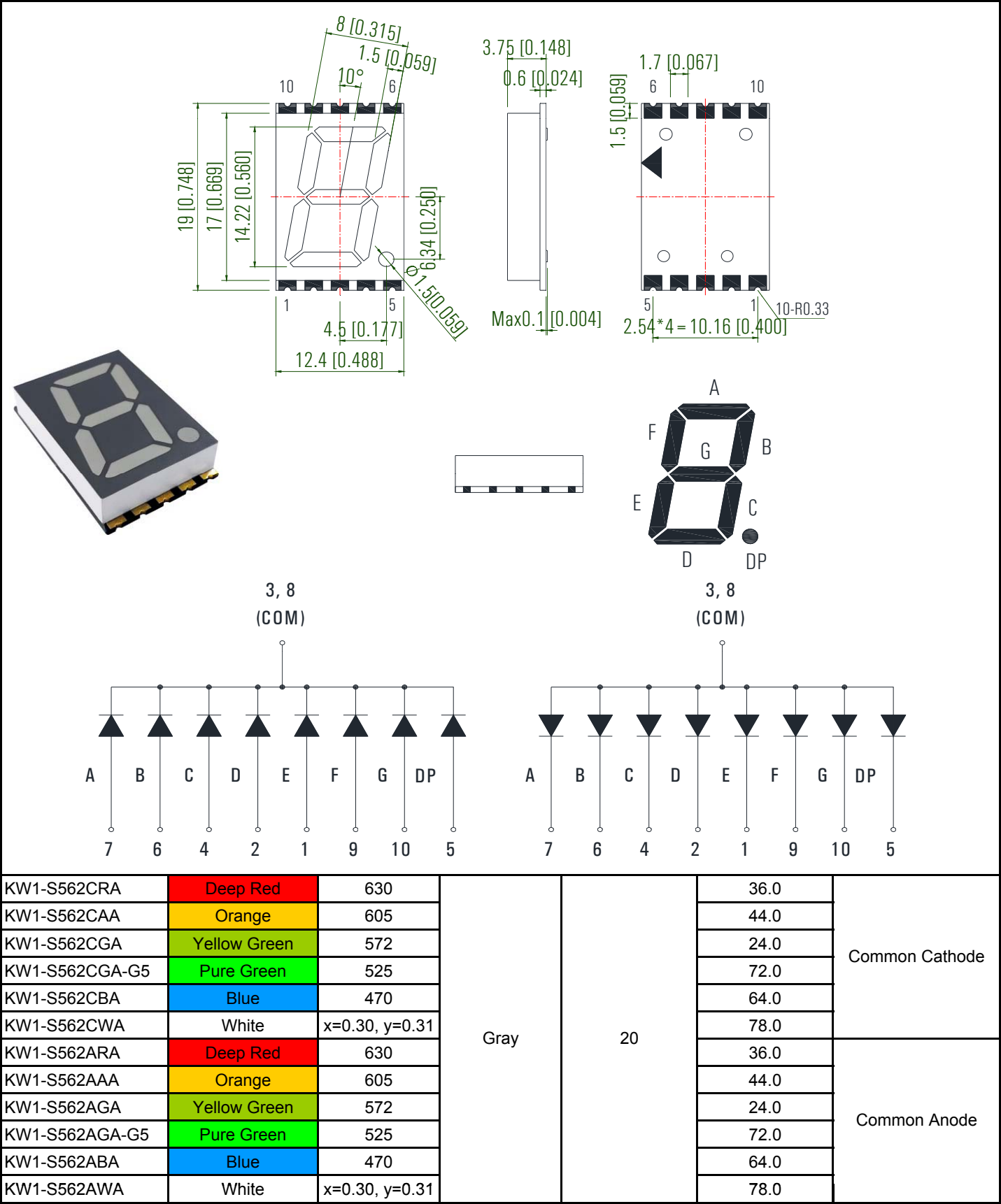
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

0.51" Single Digit SMD Display

|                                                                                                                                                                                                                                                                                                                                             |              |                |      |    |      |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|------|----|------|----------------|
|     |              |                |      |    |      |                |
|                                                                                                                                                                      |              |                |      |    |      |                |
| KW1-S511CRA                                                                                                                                                                                                                                                                                                                                 | Deep Red     | 630            | Gray | 20 | 34.0 | Common Cathode |
| KW1-S511CAA                                                                                                                                                                                                                                                                                                                                 | Orange       | 605            |      |    | 42.0 |                |
| KW1-S511CGA                                                                                                                                                                                                                                                                                                                                 | Yellow Green | 572            |      |    | 22.0 |                |
| KW1-S511CGA-G5                                                                                                                                                                                                                                                                                                                              | Pure Green   | 525            |      |    | 70.0 |                |
| KW1-S511CBA                                                                                                                                                                                                                                                                                                                                 | Blue         | 470            |      |    | 62.0 |                |
| KW1-S511CWA                                                                                                                                                                                                                                                                                                                                 | White        | x=0.30, y=0.31 |      |    | 76.0 | Common Anode   |
| KW1-S511ARA                                                                                                                                                                                                                                                                                                                                 | Deep Red     | 630            |      |    | 34.0 |                |
| KW1-S511AAA                                                                                                                                                                                                                                                                                                                                 | Orange       | 605            |      |    | 42.0 |                |
| KW1-S511AGA                                                                                                                                                                                                                                                                                                                                 | Yellow Green | 572            |      |    | 22.0 |                |
| KW1-S511AGA-G5                                                                                                                                                                                                                                                                                                                              | Pure Green   | 525            |      |    | 70.0 |                |
| KW1-S511ABA                                                                                                                                                                                                                                                                                                                                 | Blue         | 470            |      |    | 62.0 |                |
| KW1-S511AWA                                                                                                                                                                                                                                                                                                                                 | White        | x=0.30, y=0.31 |      |    | 76.0 |                |

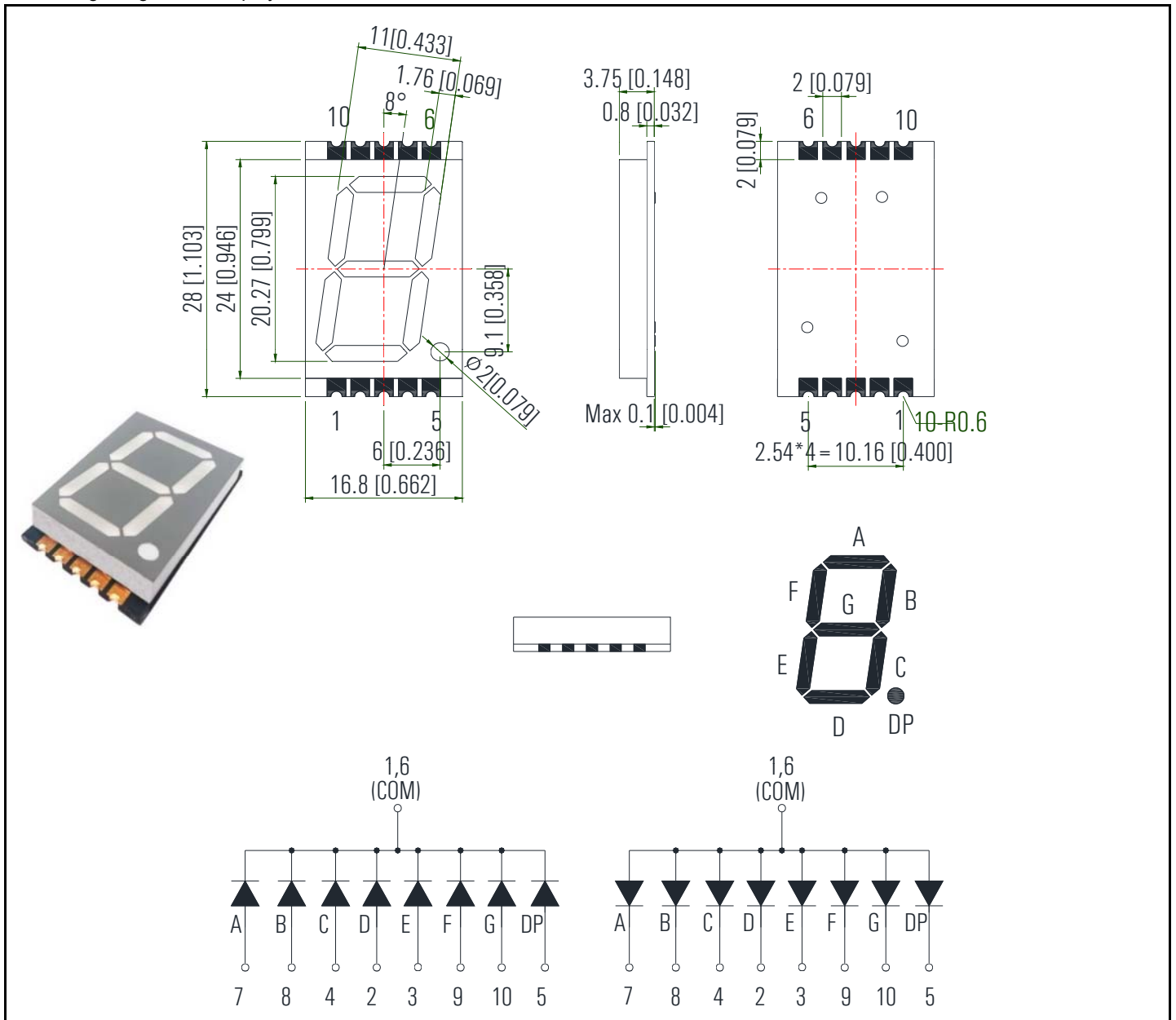
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.56" Single Digit SMD Display



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

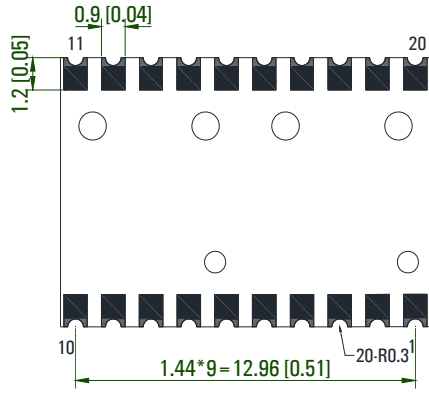
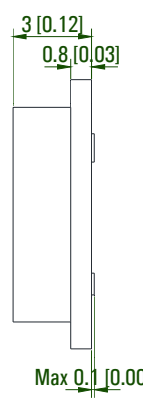
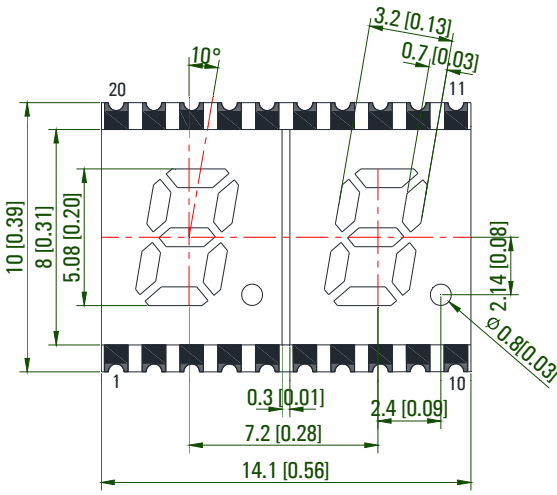
0.80" Single Digit SMD Display

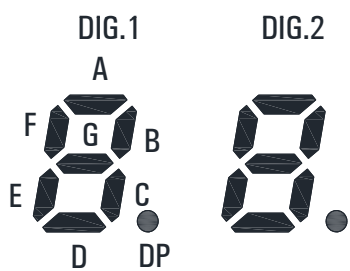
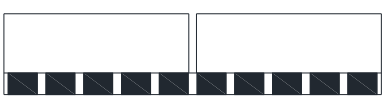


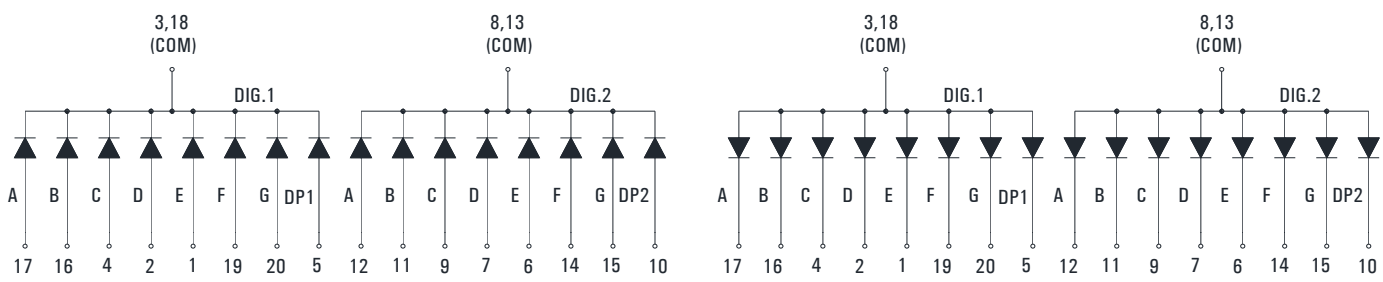
|                |              |                |      |    |      |                |
|----------------|--------------|----------------|------|----|------|----------------|
| KW1-S802CRA    | Deep Red     | 630            | Gray | 20 | 40.0 | Common Cathode |
| KW1-S802CAA    | Orange       | 605            |      |    | 48.0 |                |
| KW1-S802CGA    | Yellow Green | 572            |      |    | 28.0 |                |
| KW1-S802CGA-G5 | Pure Green   | 525            |      |    | 76.0 |                |
| KW1-S802CBA    | Blue         | 470            |      |    | 68.0 |                |
| KW1-S802CWA    | White        | x=0.30, y=0.31 |      |    | 82.0 | Common Anode   |
| KW1-S802ARA    | Deep Red     | 630            |      |    | 40.0 |                |
| KW1-S802AAA    | Orange       | 605            |      |    | 48.0 |                |
| KW1-S802AGA    | Yellow Green | 572            |      |    | 28.0 |                |
| KW1-S802AGA-G5 | Pure Green   | 525            |      |    | 76.0 |                |
| KW1-S802ABA    | Blue         | 470            |      |    | 68.0 |                |
| KW1-S802AWA    | White        | x=0.30, y=0.31 |      |    | 82.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity I <sub>v</sub> (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------------------|------|----------------|
|             |                |                            |            | I <sub>F</sub> =mA                      | Typ. |                |

0.20" Dual Digit SMD Display







|                |              |     |      |    |      |                |
|----------------|--------------|-----|------|----|------|----------------|
| KW2-S201CRA    | Deep Red     | 630 | Gray | 20 | 20.0 | Common Cathode |
| KW2-S201CAA    | Orange       | 605 |      |    | 32.0 |                |
| KW2-S201CGA    | Yellow Green | 572 |      |    | 10.0 |                |
| KW2-S201CGA-G5 | Pure Green   | 525 |      |    | 50.0 |                |
| KW2-S201CBA    | Blue         | 470 |      |    | 35.0 |                |
| KW2-S201ARA    | Deep Red     | 630 |      |    | 20.0 | Common Anode   |
| KW2-S201AAA    | Orange       | 605 |      |    | 32.0 |                |
| KW2-S201AGA    | Yellow Green | 572 |      |    | 10.0 |                |
| KW2-S201AGA-G5 | Pure Green   | 525 |      |    | 50.0 |                |
| KW2-S201ABA    | Blue         | 470 |      |    | 35.0 |                |

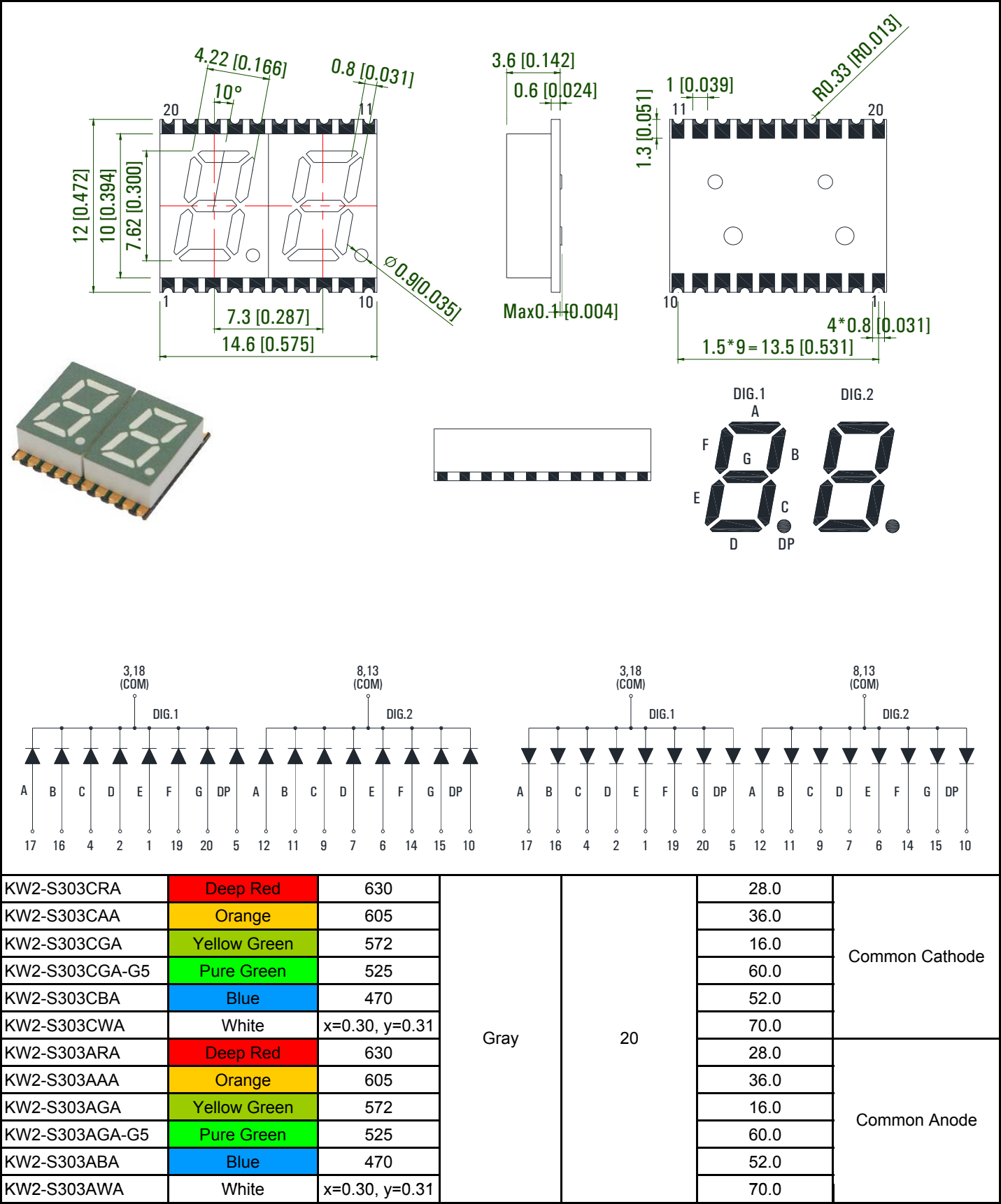
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

0.28" Dual Digit SMD Display

|                |              |                |      |    |      |                |
|----------------|--------------|----------------|------|----|------|----------------|
|                |              |                |      |    |      |                |
| KW2-S281CRA    | Deep Red     | 630            | Gray | 20 | 26.0 | Common Cathode |
| KW2-S281CAA    | Orange       | 605            |      |    | 34.0 |                |
| KW2-S281CGA    | Yellow Green | 572            |      |    | 14.0 |                |
| KW2-S281CGA-G5 | Pure Green   | 525            |      |    | 55.0 |                |
| KW2-S281CBA    | Blue         | 470            |      |    | 48.0 |                |
| KW2-S281CWA    | White        | x=0.30, y=0.31 |      |    | 68.0 | Common Anode   |
| KW2-S281ARA    | Deep Red     | 630            |      |    | 26.0 |                |
| KW2-S281AAA    | Orange       | 605            |      |    | 34.0 |                |
| KW2-S281AGA    | Yellow Green | 572            |      |    | 14.0 |                |
| KW2-S281AGA-G5 | Pure Green   | 525            |      |    | 55.0 |                |
| KW2-S281ABA    | Blue         | 470            |      |    | 48.0 |                |
| KW2-S281AWA    | White        | x=0.30, y=0.31 |      |    | 68.0 |                |

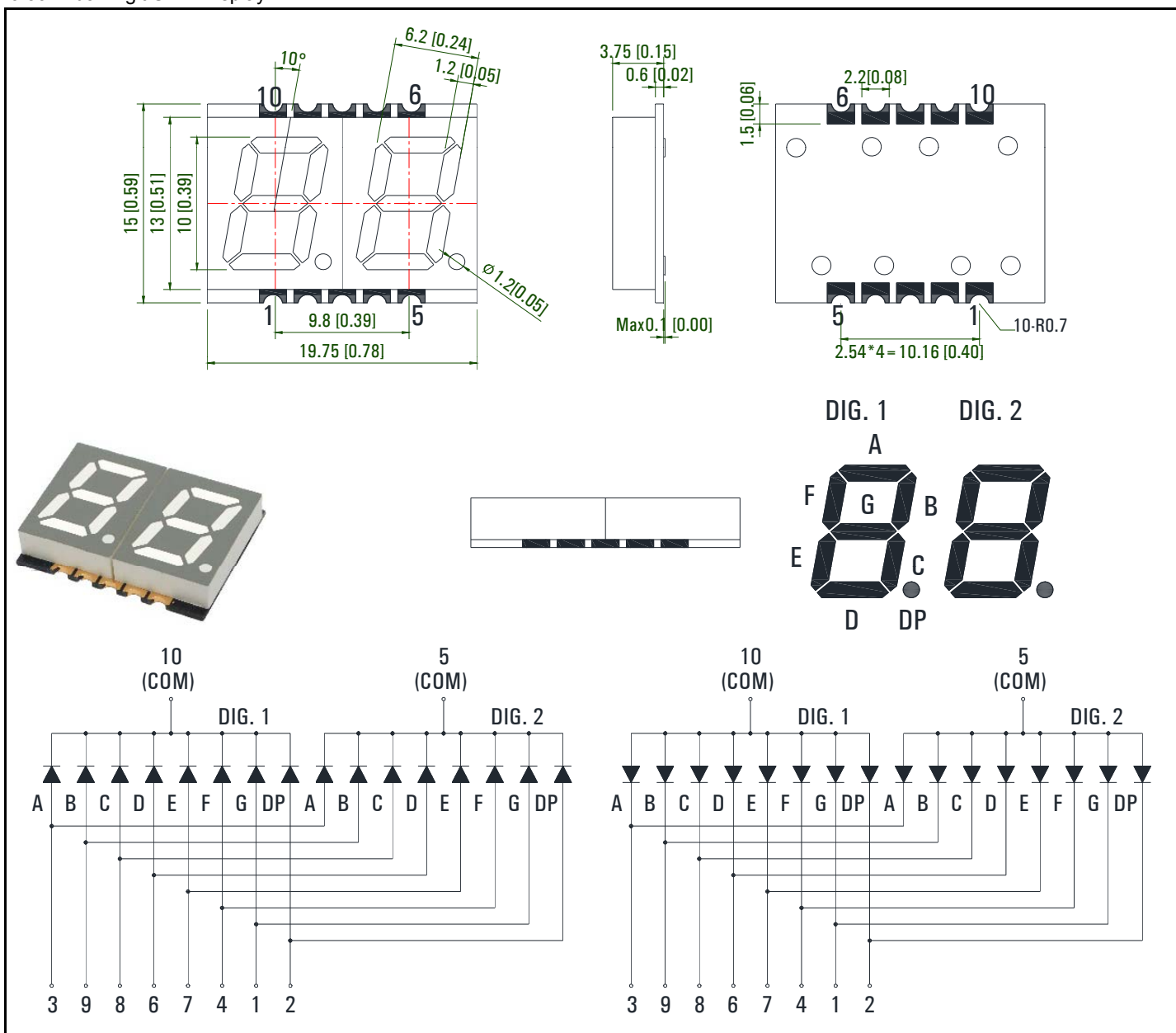
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.30" Dual Digit SMD Display



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.39" Dual Digit SMD Display

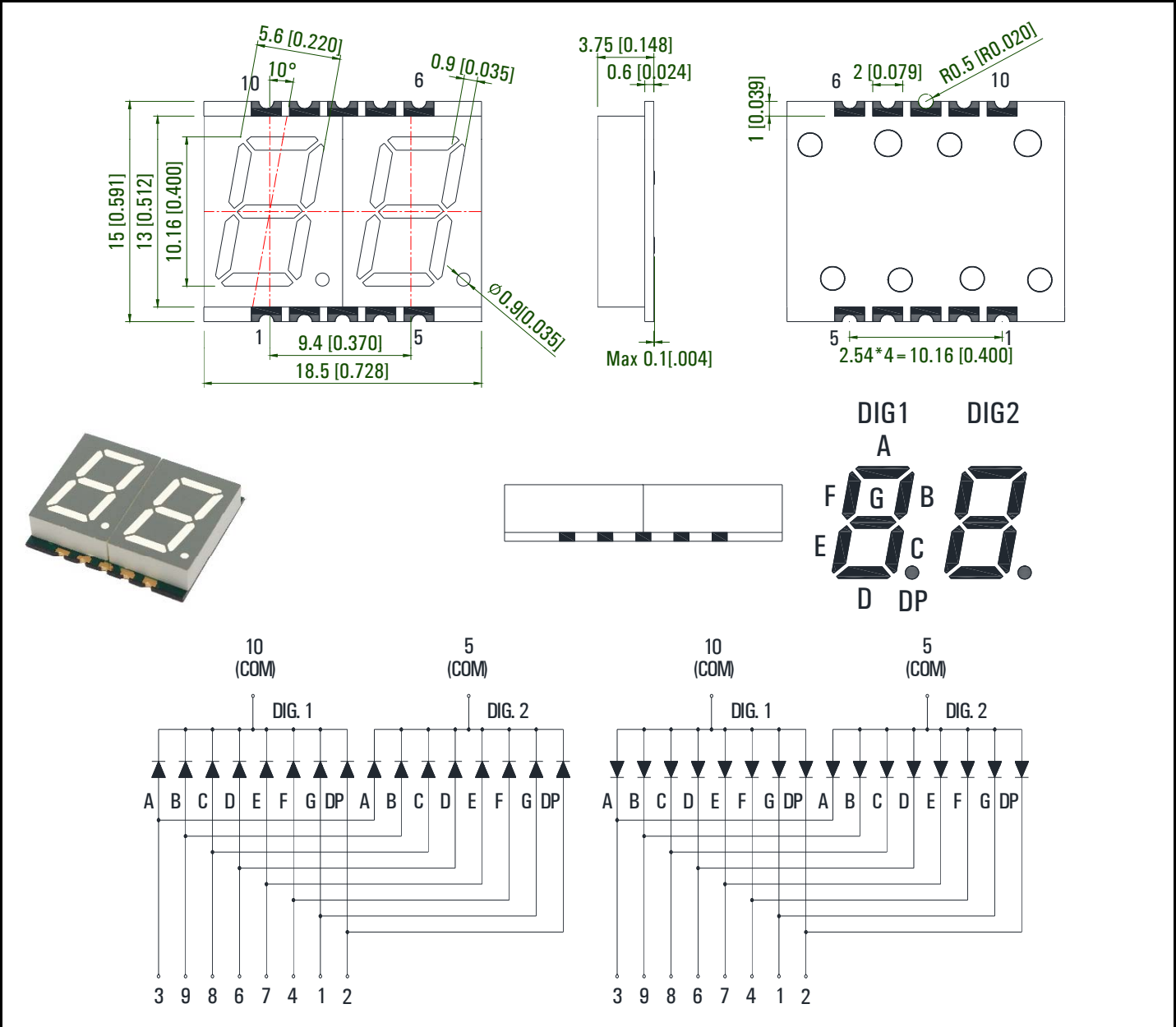


|                |              |                |      |    |      |                |
|----------------|--------------|----------------|------|----|------|----------------|
| KW2-S391CRA    | Deep Red     | 630            | Gray | 20 | 30.0 | Common Cathode |
| KW2-S391CAA    | Orange       | 605            |      |    | 38.0 |                |
| KW2-S391CGA    | Yellow Green | 572            |      |    | 18.0 |                |
| KW2-S391CGA-G5 | Pure Green   | 525            |      |    | 66.0 |                |
| KW2-S391CBA    | Blue         | 470            |      |    | 58.0 |                |
| KW2-S391CWA    | White        | x=0.30, y=0.31 |      |    | 72.0 | Common Anode   |
| KW2-S391CRA    | Deep Red     | 630            |      |    | 30.0 |                |
| KW2-S391CAA    | Orange       | 605            |      |    | 38.0 |                |
| KW2-S391CGA    | Yellow Green | 572            |      |    | 18.0 |                |
| KW2-S391CGA-G5 | Pure Green   | 525            |      |    | 66.0 |                |
| KW2-S391CBA    | Blue         | 470            |      |    | 58.0 |                |
| KW2-S391CWA    | White        | x=0.30, y=0.31 |      |    | 72.0 |                |



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

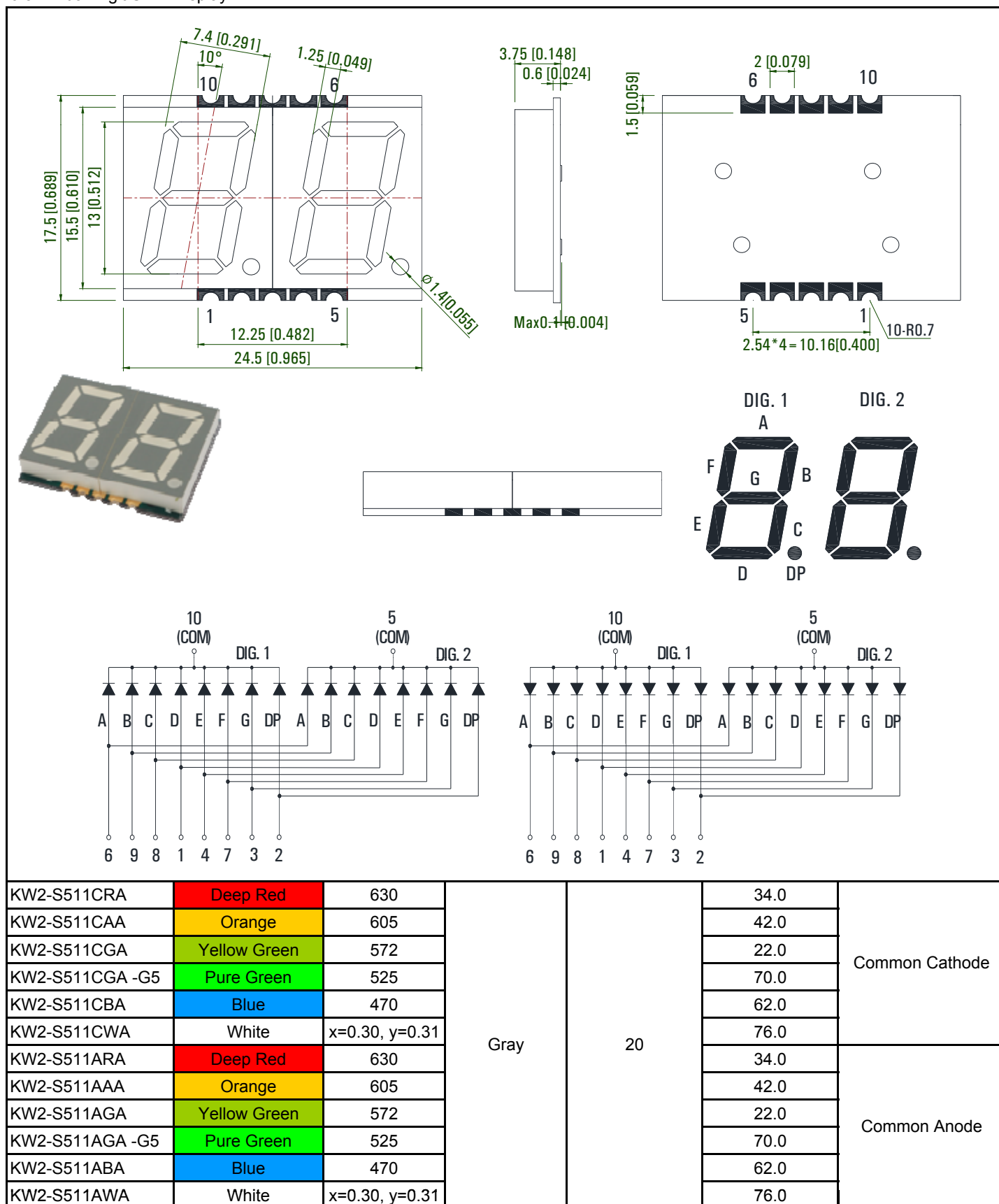
0.40" Dual Digit SMD Display



|                |              |                |      |    |      |                |
|----------------|--------------|----------------|------|----|------|----------------|
| KW2-S401CRA    | Deep Red     | 630            | Gray | 20 | 32.0 | Common Cathode |
| KW2-S401CAA    | Orange       | 605            |      |    | 40.0 |                |
| KW2-S401CGA    | Yellow Green | 572            |      |    | 20.0 |                |
| KW2-S401CGA-G5 | Pure Green   | 525            |      |    | 68.0 |                |
| KW2-S401CBA    | Blue         | 470            |      |    | 60.0 |                |
| KW2-S401CWA    | White        | x=0.30, y=0.31 |      |    | 74.0 | Common Anode   |
| KW2-S401ARA    | Deep Red     | 630            |      |    | 32.0 |                |
| KW2-S401AAA    | Orange       | 605            |      |    | 40.0 |                |
| KW2-S401AGA    | Yellow Green | 572            |      |    | 20.0 |                |
| KW2-S401AGA-G5 | Pure Green   | 525            |      |    | 68.0 |                |
| KW2-S401ABA    | Blue         | 470            |      |    | 60.0 |                |
| KW2-S401AWA    | White        | x=0.30, y=0.31 |      |    | 74.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | $I_F = \text{mA}$              | Typ. |                |

0.51" Dual Digit SMD Display

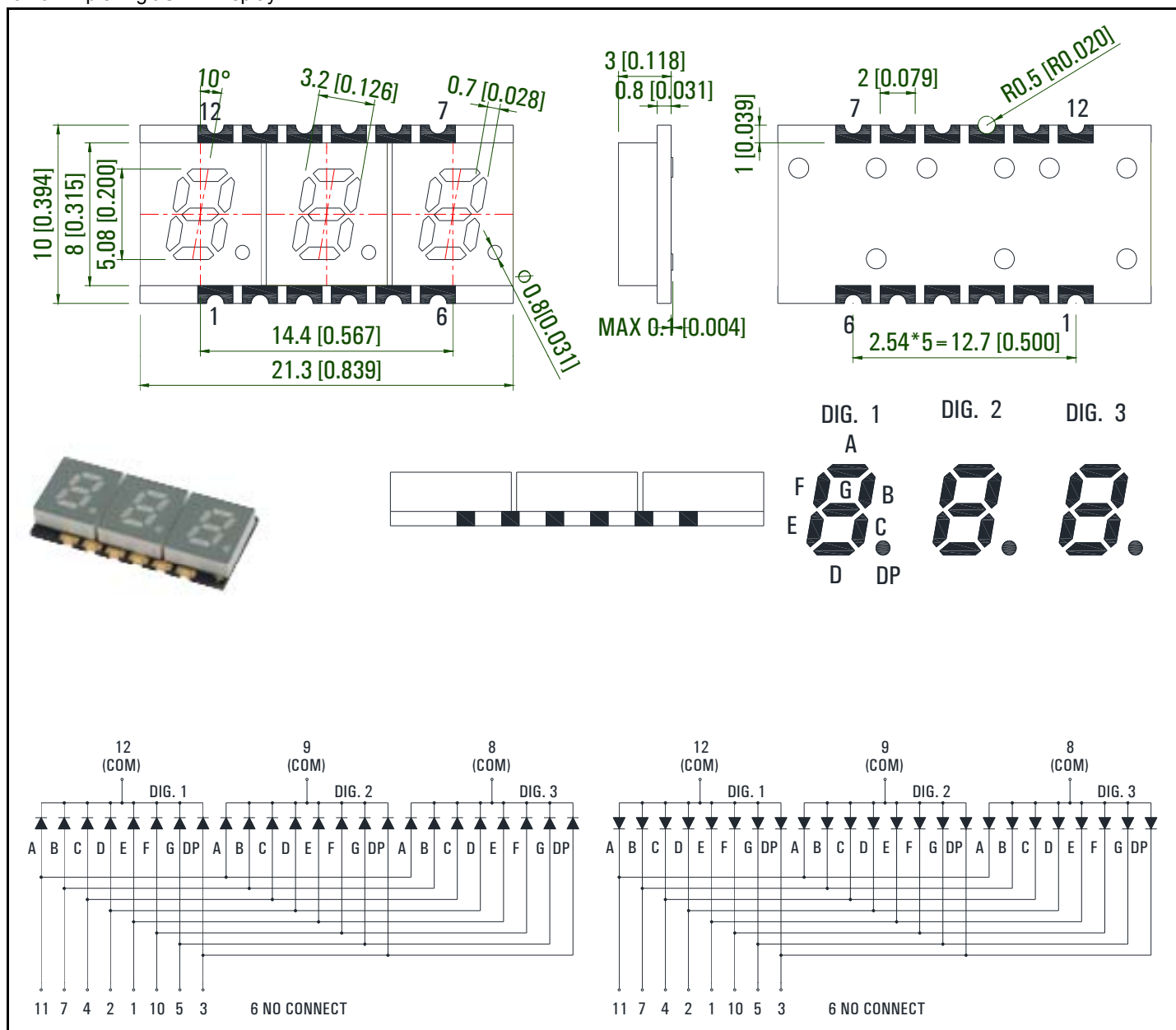


Technical drawing of the 2-DIG 16-pin DIP package. The drawing includes a top view showing the layout of the two 7-segment displays with dimensions in millimeters and inches. Key dimensions include a total width of 25.1 mm [0.988], a total height of 19 mm [0.748], and a pin pitch of 2.54 mm. A side view shows the package height of 3.85 mm [0.152]. A detail view of the top surface shows the segment layout and dimensions. A 3D perspective view shows the package with its pins. A pinout diagram shows the 16 pins and their connections to the segments A, B, C, D, E, F, G, and DP for both digits.

|                |              |                |      |    |      |                |
|----------------|--------------|----------------|------|----|------|----------------|
| KW2-S563CRA    | Deep Red     | 630            | Gray | 20 | 36.0 | Common Cathode |
| KW2-S563CAA    | Orange       | 605            |      |    | 44.0 |                |
| KW2-S563CGA    | Yellow Green | 572            |      |    | 24.0 |                |
| KW2-S563CGA-G5 | Pure Green   | 525            |      |    | 72.0 |                |
| KW2-S563CBA    | Blue         | 470            |      |    | 64.0 |                |
| KW2-S563CWA    | White        | x=0.30, y=0.31 |      |    | 78.0 | Common Anode   |
| KW2-S563ARA    | Deep Red     | 630            |      |    | 36.0 |                |
| KW2-S563AAA    | Orange       | 605            |      |    | 44.0 |                |
| KW2-S563AGA    | Yellow Green | 572            |      |    | 24.0 |                |
| KW2-S563AGA-G5 | Pure Green   | 525            |      |    | 72.0 |                |
| KW2-S563ABA    | Blue         | 470            |      |    | 64.0 |                |
| KW2-S563AWA    | White        | x=0.30, y=0.31 |      |    | 78.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | $I_F$ =mA                      | Typ. |                |

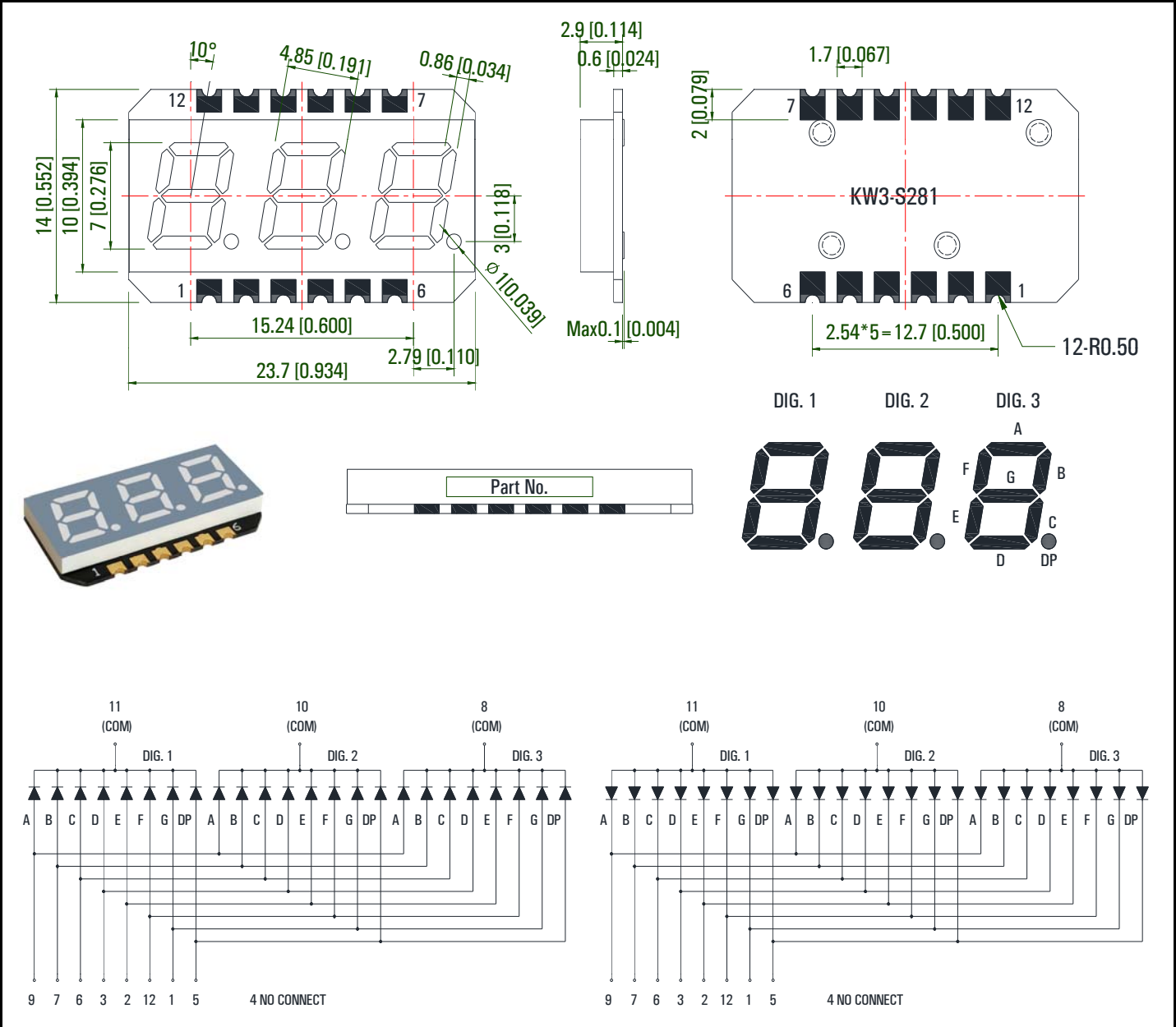
0.20" Triple Digit SMD Display



|                |              |     |      |    |      |                |
|----------------|--------------|-----|------|----|------|----------------|
| KW3-S201CRA    | Deep Red     | 630 | Gray | 20 | 20.0 | Common Cathode |
| KW3-S201CAA    | Orange       | 605 |      |    | 32.0 |                |
| KW3-S201CGA    | Yellow Green | 572 |      |    | 10.0 |                |
| KW3-S201CGA-G5 | Pure Green   | 525 |      |    | 50.0 |                |
| KW3-S201CBA    | Blue         | 470 |      |    | 35.0 |                |
| KW3-S201ARA    | Deep Red     | 630 |      |    | 20.0 | Common Anode   |
| KW3-S201AAA    | Orange       | 605 |      |    | 32.0 |                |
| KW3-S201AGA    | Yellow Green | 572 |      |    | 10.0 |                |
| KW3-S201AGA-G5 | Pure Green   | 525 |      |    | 50.0 |                |
| KW3-S201ABA    | Blue         | 470 |      |    | 35.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity I <sub>v</sub> (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------------------|------|----------------|
|             |                |                            |            | I <sub>F</sub> =mA                      | Typ. |                |

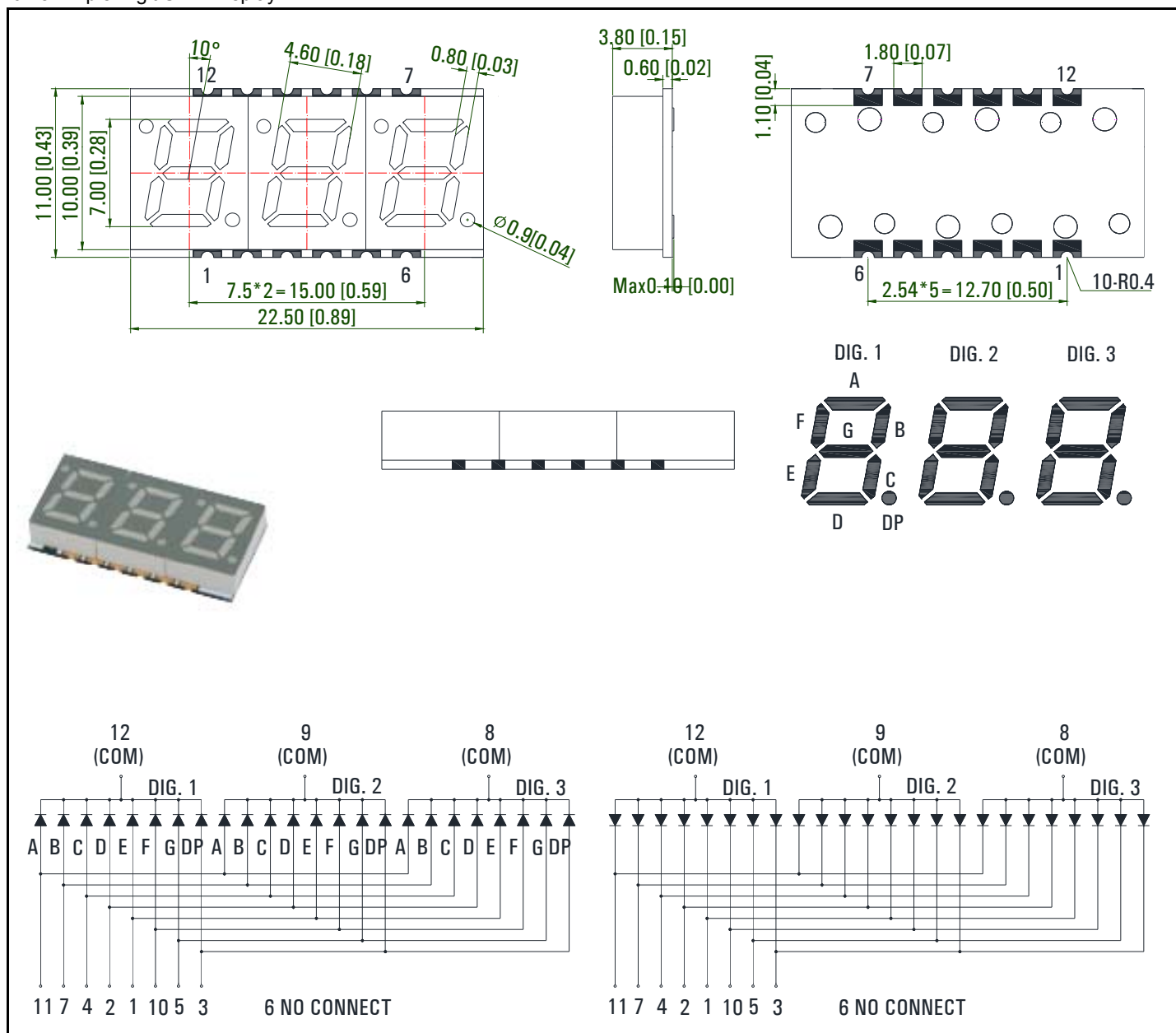
0.28" Triple Digit SMD Display



|                |              |                |      |    |      |                |
|----------------|--------------|----------------|------|----|------|----------------|
| KW3-S281CRA    | Deep Red     | 630            | Gray | 20 | 26.0 | Common Cathode |
| KW3-S281CAA    | Orange       | 605            |      |    | 34.0 |                |
| KW3-S281CGA    | Yellow Green | 572            |      |    | 14.0 |                |
| KW3-S281CGA-G5 | Pure Green   | 525            |      |    | 55.0 |                |
| KW3-S281CBA    | Blue         | 470            |      |    | 48.0 |                |
| KW3-S281CWA    | White        | x=0.30, y=0.31 |      |    | 68.0 | Common Anode   |
| KW3-S281ARA    | Deep Red     | 630            |      |    | 26.0 |                |
| KW3-S281AAA    | Orange       | 605            |      |    | 34.0 |                |
| KW3-S281AGA    | Yellow Green | 572            |      |    | 14.0 |                |
| KW3-S281AGA-G5 | Pure Green   | 525            |      |    | 55.0 |                |
| KW3-S281ABA    | Blue         | 470            |      |    | 48.0 |                |
| KW3-S281AWA    | White        | x=0.30, y=0.31 |      |    | 68.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

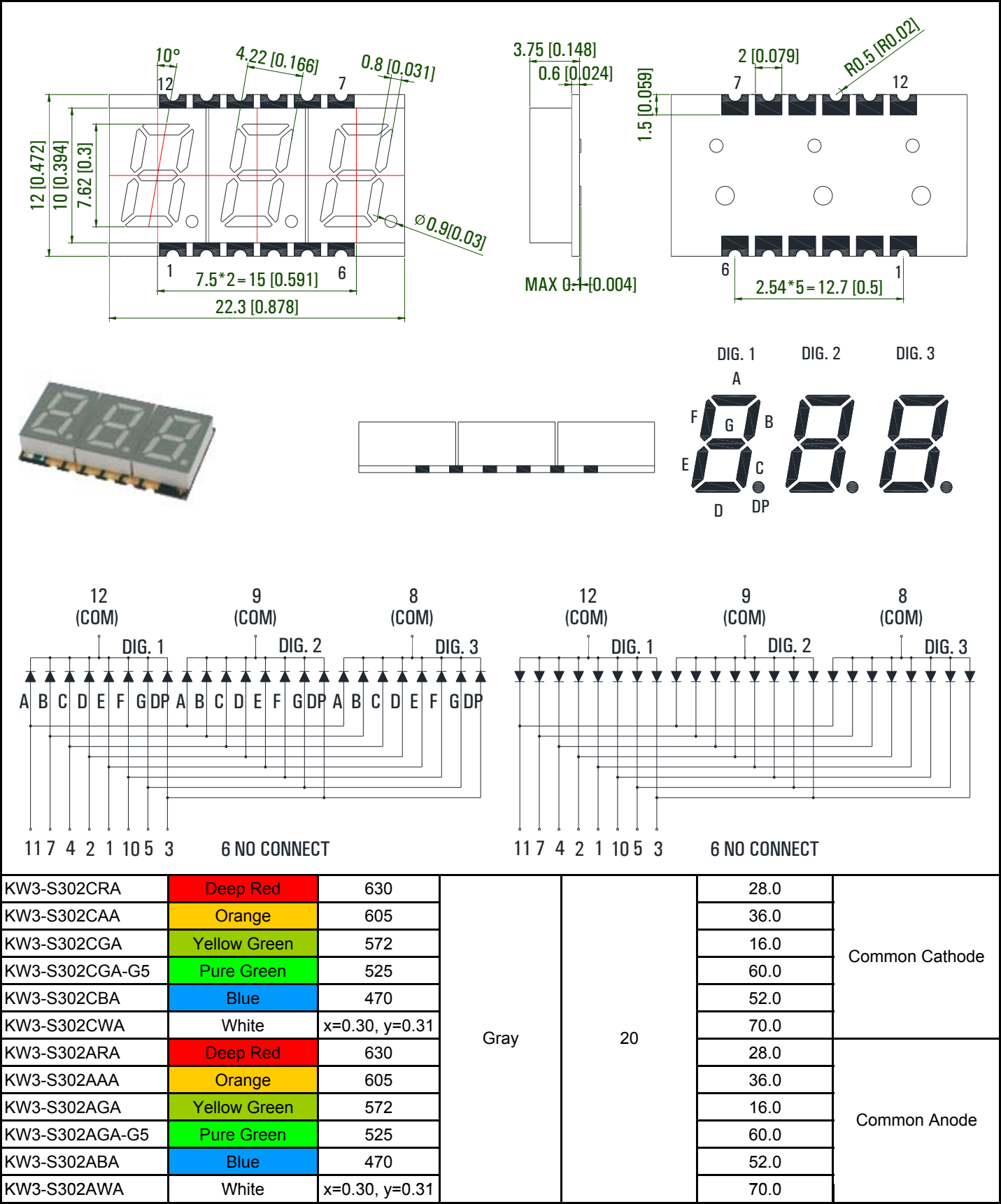
0.28" Triple Digit SMD Display



|                |              |                |      |    |      |                |
|----------------|--------------|----------------|------|----|------|----------------|
| KW3-S282CRA    | Deep Red     | 630            | Gray | 20 | 26.0 | Common Cathode |
| KW3-S282CAA    | Orange       | 605            |      |    | 34.0 |                |
| KW3-S282CGA    | Yellow Green | 572            |      |    | 14.0 |                |
| KW3-S282CGA-G5 | Pure Green   | 525            |      |    | 55.0 |                |
| KW3-S282CBA    | Blue         | 470            |      |    | 48.0 |                |
| KW3-S282CWA    | White        | x=0.30, y=0.31 |      |    | 68.0 | Common Anode   |
| KW3-S282ARA    | Deep Red     | 630            |      |    | 26.0 |                |
| KW3-S282AAA    | Orange       | 605            |      |    | 34.0 |                |
| KW3-S282AGA    | Yellow Green | 572            |      |    | 14.0 |                |
| KW3-S282AGA-G5 | Pure Green   | 525            |      |    | 55.0 |                |
| KW3-S282ABA    | Blue         | 470            |      |    | 48.0 |                |
| KW3-S282AWA    | White        | x=0.30, y=0.31 |      |    | 68.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity I <sub>v</sub> (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------------------|------|----------------|
|             |                |                            |            | I <sub>F</sub> =mA                      | Typ. |                |

0.30" Triple Digit SMD Display



|                |              |                |      |    |      |                |
|----------------|--------------|----------------|------|----|------|----------------|
| KW3-S391CRA    | Deep Red     | 630            | Gray | 20 | 30.0 | Common Cathode |
| KW3-S391CAA    | Orange       | 605            |      |    | 38.0 |                |
| KW3-S391CGA    | Yellow Green | 572            |      |    | 18.0 |                |
| KW3-S391CGA-G5 | Pure Green   | 525            |      |    | 66.0 |                |
| KW3-S391CBA    | Blue         | 470            |      |    | 58.0 |                |
| KW3-S391CWA    | White        | x=0.30, y=0.31 |      |    | 72.0 |                |
| KW3-S391ARA    | Deep Red     | 630            |      |    | 30.0 | Common Anode   |
| KW3-S391AAA    | Orange       | 605            |      |    | 38.0 |                |
| KW3-S391AGA    | Yellow Green | 572            |      |    | 18.0 |                |
| KW3-S391AGA-G5 | Pure Green   | 525            |      |    | 66.0 |                |
| KW3-S391ABA    | Blue         | 470            |      |    | 58.0 |                |
| KW3-S391AWA    | White        | x=0.30, y=0.31 |      |    | 72.0 |                |



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.40" Triple Digit SMD Display

DIG. 1      DIG. 2      DIG. 3

A  
F      B  
G  
E      C  
D      DP

12 (COM)      9 (COM)      8 (COM)

DIG. 1      DIG. 2      DIG. 3

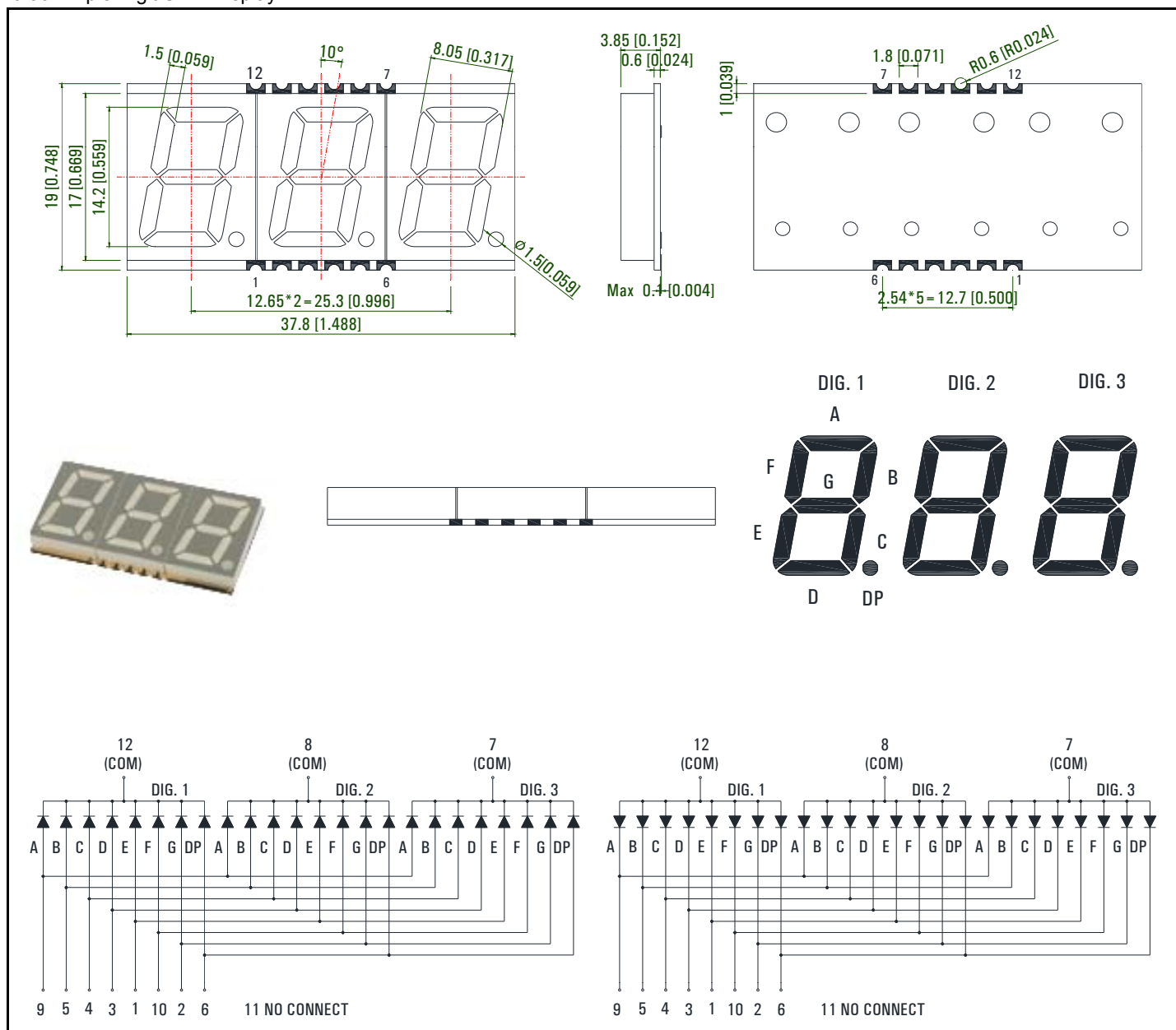
A B C D E F G DP A B C D E F G DP A B C D E F G DP

11 7 4 2 1 10 5 3      6 NO CONNECT      11 7 4 2 1 10 5 3      6 NO CONNECT

|                |              |                |      |    |      |                |
|----------------|--------------|----------------|------|----|------|----------------|
| KW3-S401CRA    | Deep Red     | 630            | Gray | 20 | 32.0 | Common Cathode |
| KW3-S401CAA    | Orange       | 605            |      |    | 40.0 |                |
| KW3-S401CGA    | Yellow Green | 572            |      |    | 20.0 |                |
| KW3-S401CGA-G5 | Pure Green   | 525            |      |    | 68.0 |                |
| KW3-S401CBA    | Blue         | 470            |      |    | 60.0 |                |
| KW3-S401CWA    | White        | x=0.30, y=0.31 |      |    | 74.0 | Common Anode   |
| KW3-S401ARA    | Deep Red     | 630            |      |    | 32.0 |                |
| KW3-S401AAA    | Orange       | 605            |      |    | 40.0 |                |
| KW3-S401AGA    | Yellow Green | 572            |      |    | 20.0 |                |
| KW3-S401AGA-G5 | Pure Green   | 525            |      |    | 68.0 |                |
| KW3-S401ABA    | Blue         | 470            |      |    | 60.0 |                |
| KW3-S401AWA    | White        | x=0.30, y=0.31 |      |    | 74.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

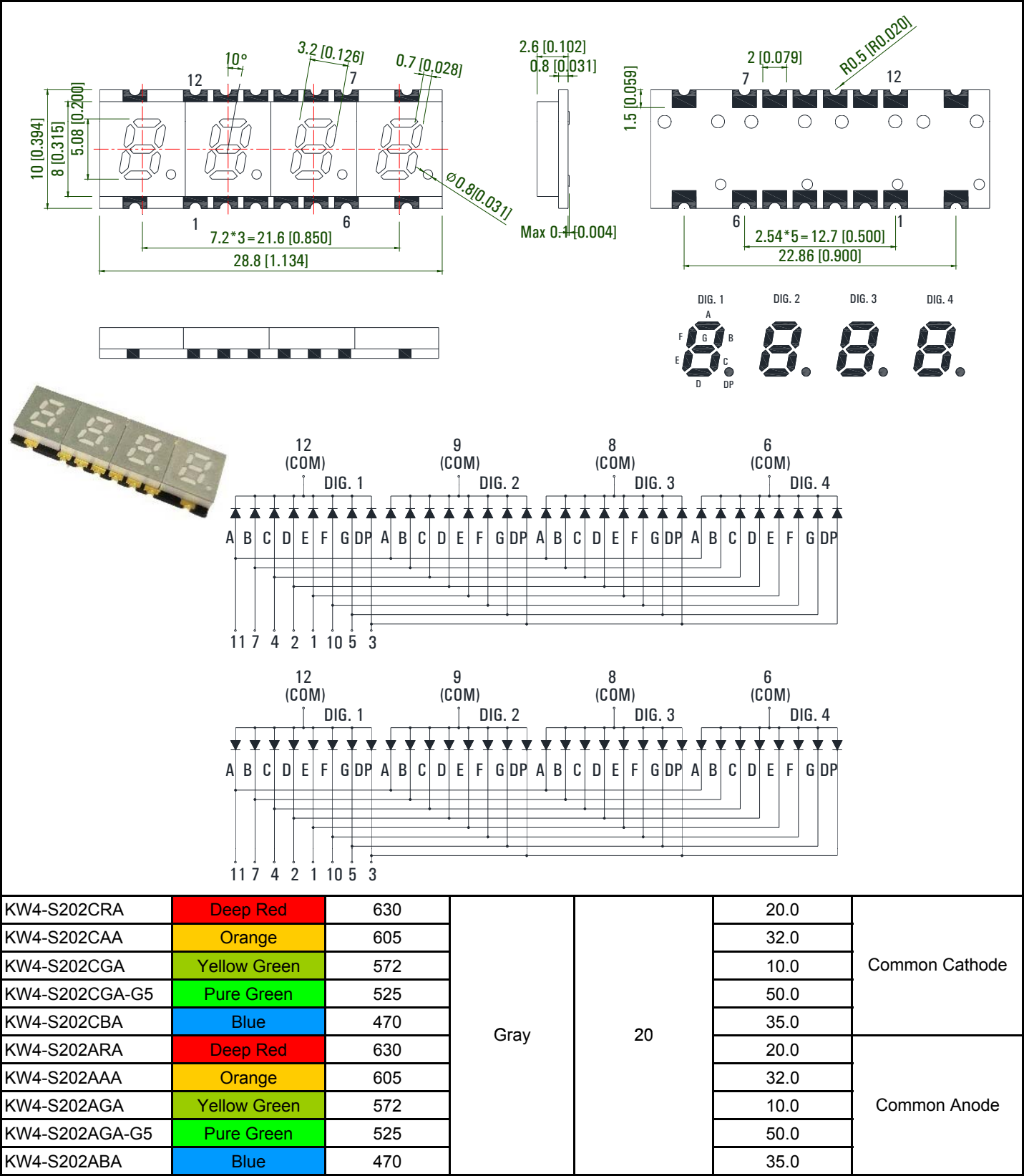
0.56" Triple Digit SMD Display



|                |              |                |      |    |      |                |
|----------------|--------------|----------------|------|----|------|----------------|
| KW3-S563CRA    | Deep Red     | 630            | Gray | 20 | 36.0 | Common Cathode |
| KW3-S563CAA    | Orange       | 605            |      |    | 44.0 |                |
| KW3-S563CGA    | Yellow Green | 572            |      |    | 24.0 |                |
| KW3-S563CGA-G5 | Pure Green   | 525            |      |    | 72.0 |                |
| KW3-S563CBA    | Blue         | 470            |      |    | 64.0 |                |
| KW3-S563CWA    | White        | x=0.30, y=0.31 |      |    | 78.0 | Common Anode   |
| KW3-S563ARA    | Deep Red     | 630            |      |    | 36.0 |                |
| KW3-S563AAA    | Orange       | 605            |      |    | 44.0 |                |
| KW3-S563AGA    | Yellow Green | 572            |      |    | 24.0 |                |
| KW3-S563AGA-G5 | Pure Green   | 525            |      |    | 72.0 |                |
| KW3-S563ABA    | Blue         | 470            |      |    | 64.0 |                |
| KW3-S563AWA    | White        | x=0.30, y=0.31 |      |    | 78.0 |                |

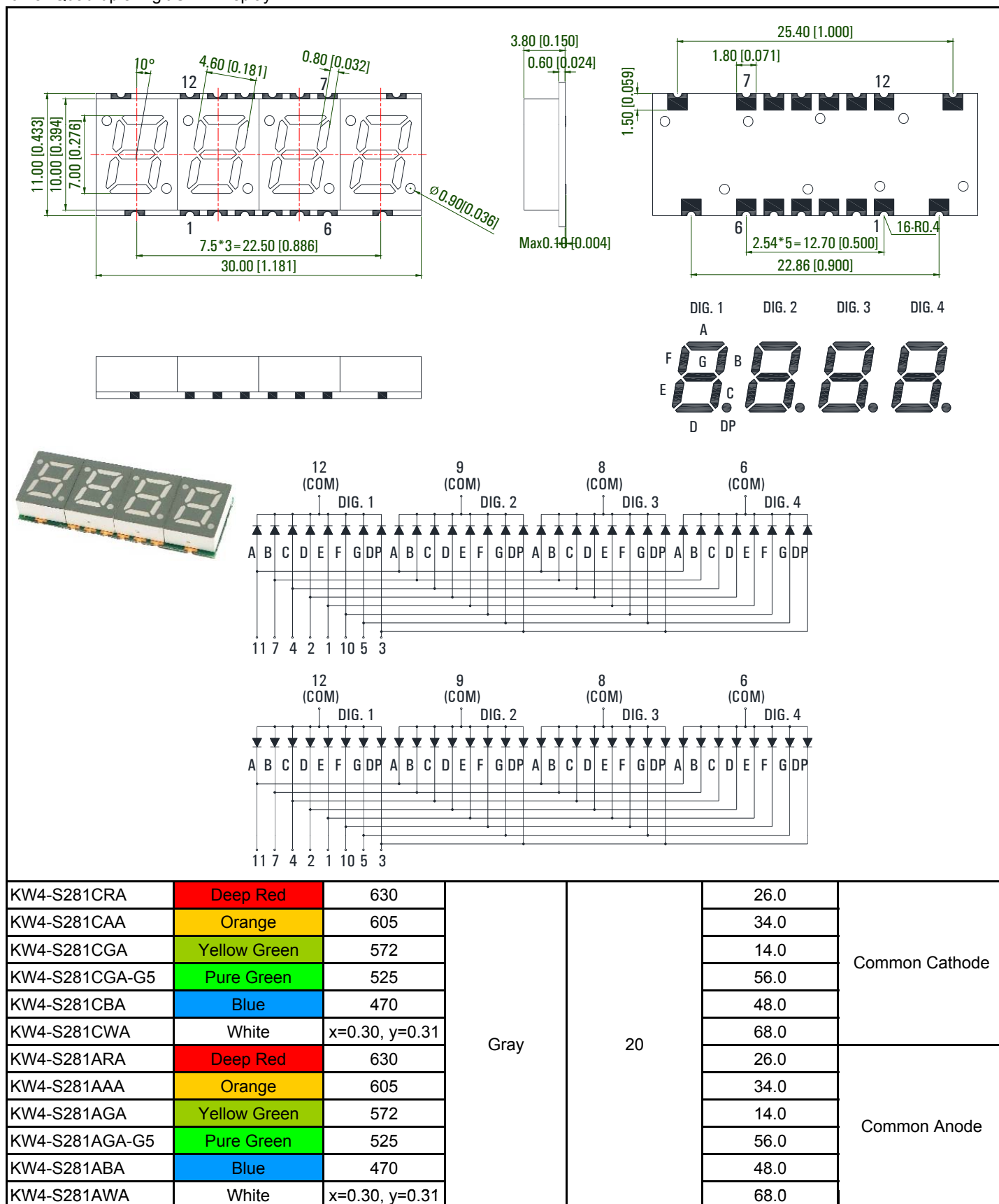
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.20" Quadruple Digit SMD Display



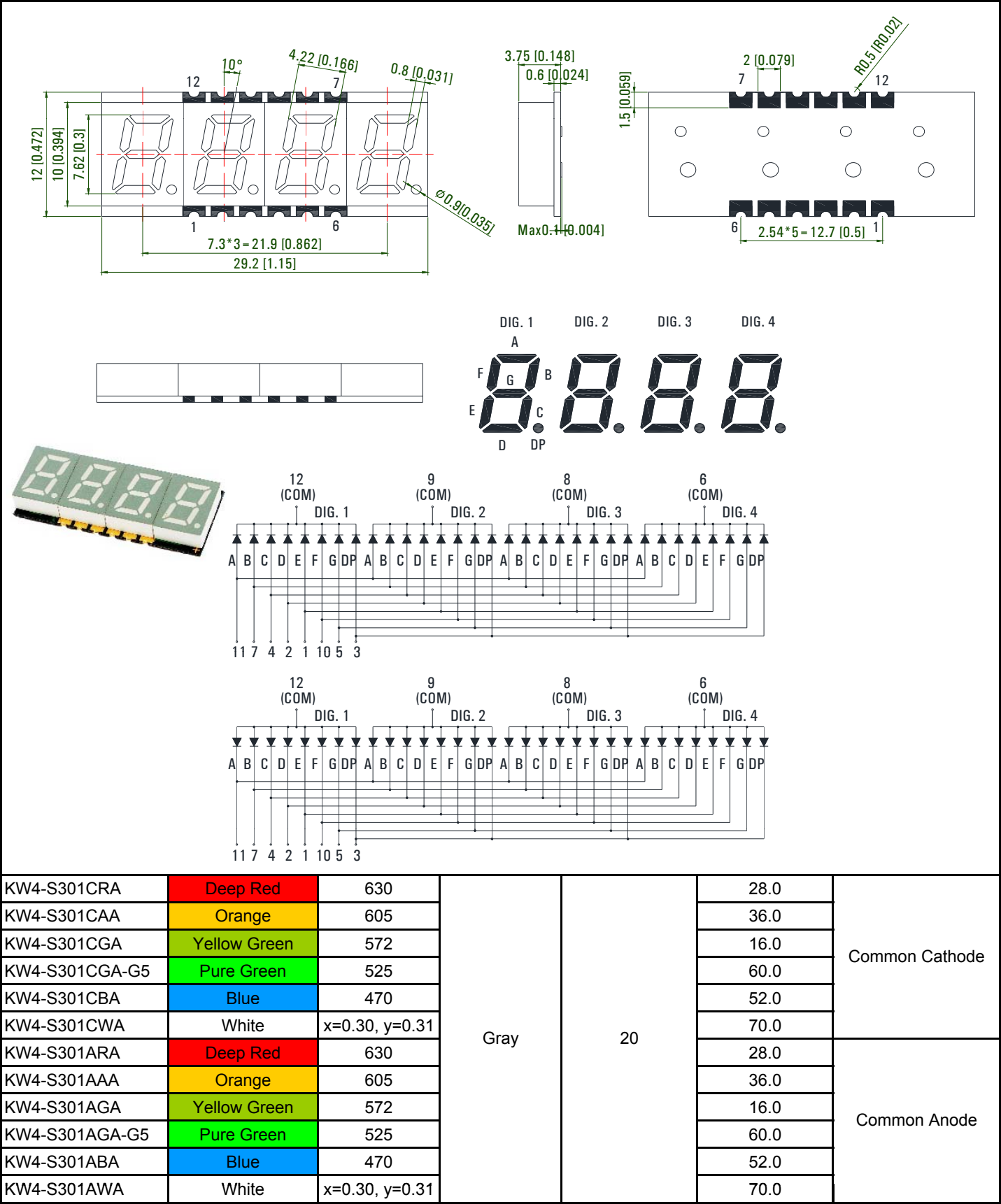
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

0.28" Quadruple Digit SMD Display



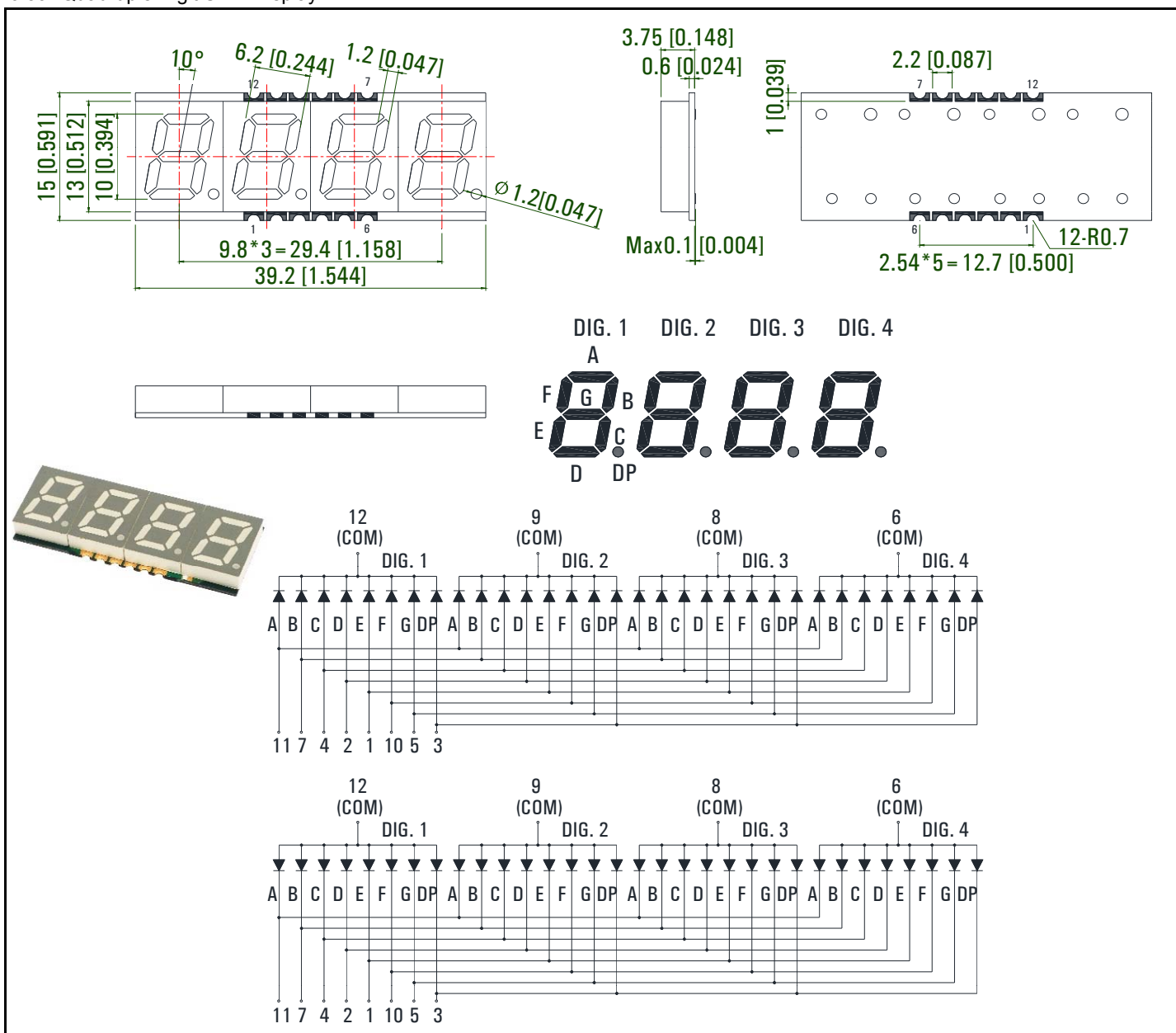
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.30" Quadruple Digit SMD Display



| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.39" Quadruple Digit SMD Display



|                |              |                |      |    |      |                |
|----------------|--------------|----------------|------|----|------|----------------|
| KW4-S391CRA    | Deep Red     | 630            | Gray | 20 | 30.0 | Common Cathode |
| KW4-S391CAA    | Orange       | 605            |      |    | 38.0 |                |
| KW4-S391CGA    | Yellow Green | 572            |      |    | 18.0 |                |
| KW4-S391CGA-G5 | Pure Green   | 525            |      |    | 66.0 |                |
| KW4-S391CBA    | Blue         | 470            |      |    | 58.0 |                |
| KW4-S391CWA    | White        | x=0.30, y=0.31 |      |    | 72.0 | Common Anode   |
| KW4-S391ARA    | Deep Red     | 630            |      |    | 30.0 |                |
| KW4-S391AAA    | Orange       | 605            |      |    | 38.0 |                |
| KW4-S391AGA    | Yellow Green | 572            |      |    | 18.0 |                |
| KW4-S391AGA-G5 | Pure Green   | 525            |      |    | 66.0 |                |
| KW4-S391ABA    | Blue         | 470            |      |    | 58.0 |                |
| KW4-S391AWA    | White        | x=0.30, y=0.31 |      |    | 72.0 |                |

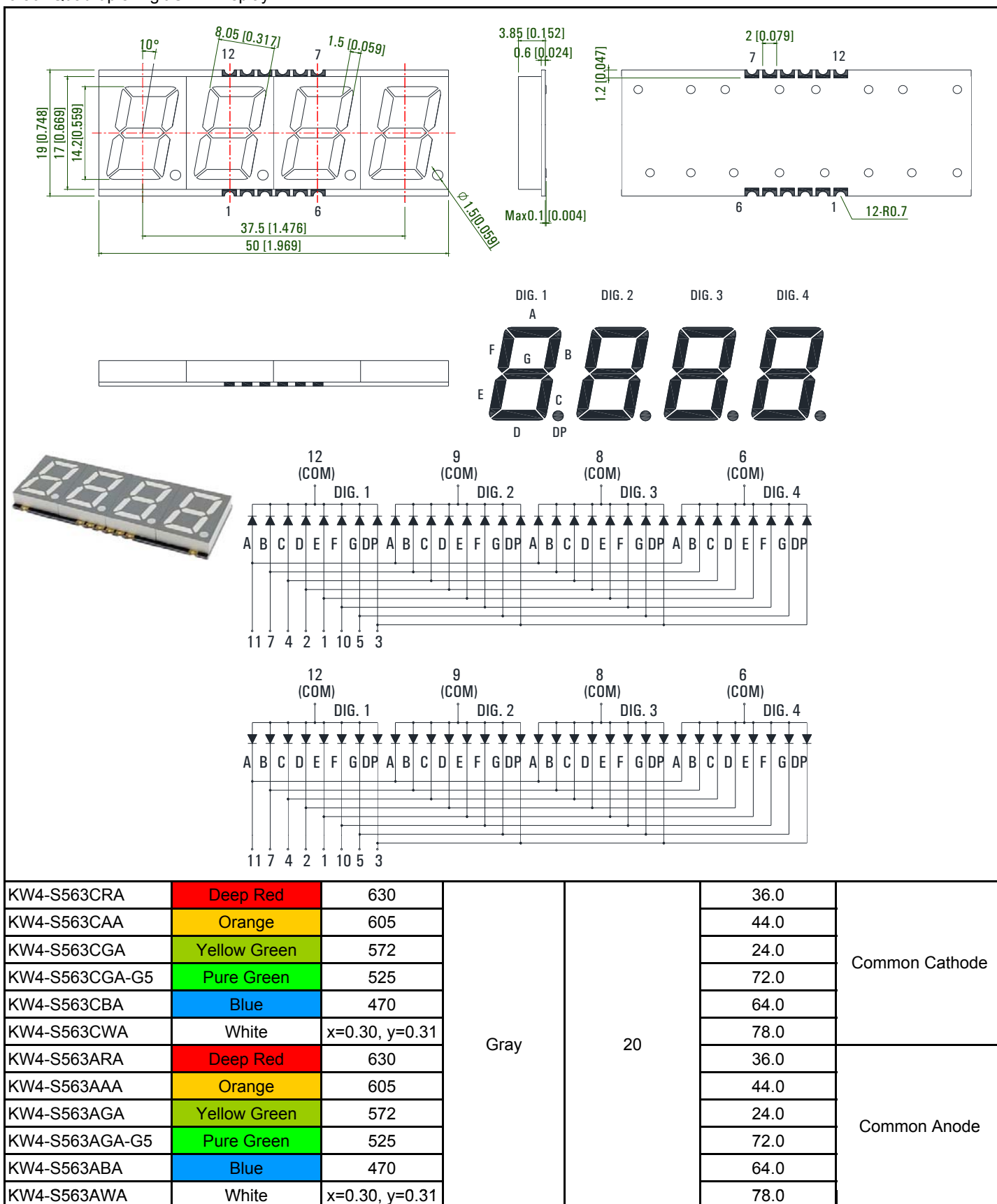
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.47" Quadruple Digit SMD Display

|                |              |                |      |    |      |                |
|----------------|--------------|----------------|------|----|------|----------------|
| KW4-S471CRA    | Deep Red     | 630            | Gray | 20 | 32.0 | Common Cathode |
| KW4-S471CAA    | Orange       | 605            |      |    | 40.0 |                |
| KW4-S471CGA    | Yellow Green | 572            |      |    | 20.0 |                |
| KW4-S471CGA-G5 | Pure Green   | 525            |      |    | 68.0 |                |
| KW4-S471CBA    | Blue         | 470            |      |    | 60.0 |                |
| KW4-S471CWA    | White        | x=0.30, y=0.31 |      |    | 74.0 | Common Anode   |
| KW4-S471ARA    | Deep Red     | 630            |      |    | 32.0 |                |
| KW4-S471AAA    | Orange       | 605            |      |    | 40.0 |                |
| KW4-S471AGA    | Yellow Green | 572            |      |    | 20.0 |                |
| KW4-S471AGA-G5 | Pure Green   | 525            |      |    | 68.0 |                |
| KW4-S471ABA    | Blue         | 470            |      |    | 60.0 |                |
| KW4-S471AWA    | White        | x=0.30, y=0.31 |      |    | 74.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

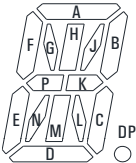
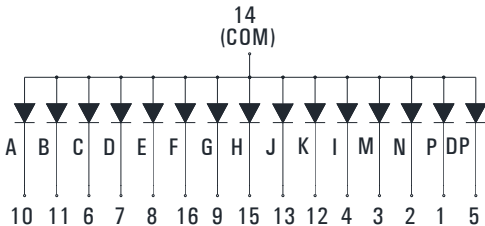
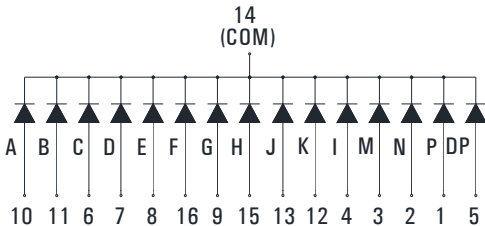
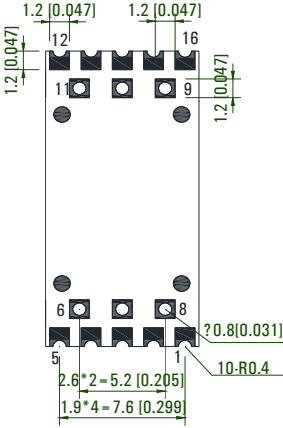
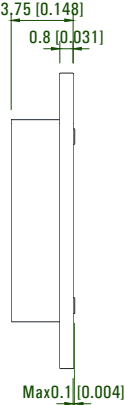
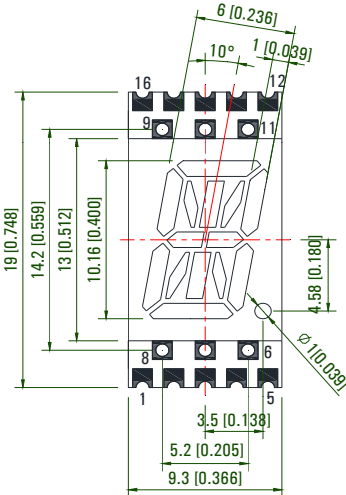
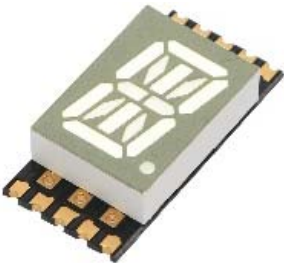
0.56" Quadruple Digit SMD Display





| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity Iv (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------|------|----------------|
|             |                |                            |            | IF=mA                       | Typ. |                |

0.40" Single Digit Alphabetic SMD Display



|                |              |                |      |    |      |                |
|----------------|--------------|----------------|------|----|------|----------------|
| KWA-S401CRA    | Deep Red     | 630            | Gray | 20 | 32.0 | Common Cathode |
| KWA-S401CAA    | Orange       | 605            |      |    | 38.0 |                |
| KWA-S401CGA    | Yellow Green | 572            |      |    | 20.0 |                |
| KWA-S401CGA-G5 | Pure Green   | 525            |      |    | 60.0 |                |
| KWA-S401CBA    | Blue         | 470            |      |    | 42.0 |                |
| KWA-S401CWA    | White        | x=0.30, y=0.31 |      |    | 74.0 | Common Anode   |
| KWA-S401ARA    | Deep Red     | 630            |      |    | 32.0 |                |
| KWA-S401AAA    | Orange       | 605            |      |    | 38.0 |                |
| KWA-S401AGA    | Yellow Green | 572            |      |    | 20.0 |                |
| KWA-S401AGA-G5 | Pure Green   | 525            |      |    | 60.0 |                |
| KWA-S401ABA    | Blue         | 470            |      |    | 42.0 |                |
| KWA-S401AWA    | White        | x=0.30, y=0.31 |      |    | 74.0 |                |

|                 |              |                |      |    |      |                |
|-----------------|--------------|----------------|------|----|------|----------------|
| KWA2-S401CRA    | Deep Red     | 630            | Gray | 20 | 32.0 | Common Cathode |
| KWA2-S401CAA    | Orange       | 605            |      |    | 38.0 |                |
| KWA2-S401CGA    | Yellow Green | 572            |      |    | 20.0 |                |
| KWA2-S401CGA-G5 | Pure Green   | 525            |      |    | 60.0 |                |
| KWA2-S401CBA    | Blue         | 470            |      |    | 42.0 |                |
| KWA2-S401CWA    | White        | x=0.30, y=0.31 |      |    | 74.0 |                |
| KWA2-S401ARA    | Deep Red     | 630            |      |    | 32.0 | Common Anode   |
| KWA2-S401AAA    | Orange       | 605            |      |    | 38.0 |                |
| KWA2-S401AGA    | Yellow Green | 572            |      |    | 20.0 |                |
| KWA2-S401AGA-G5 | Pure Green   | 525            |      |    | 60.0 |                |
| KWA2-S401ABA    | Blue         | 470            |      |    | 42.0 |                |
| KWA2-S401AWA    | White        | x=0.30, y=0.31 |      |    | 74.0 |                |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity I <sub>v</sub> (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|-----------------------------------------|------|----------------|
|             |                |                            |            | IF=mA                                   | Typ. |                |

0.40" Triple Digit Alphabetic SMD Display

|                 |              |                |      |    |      |                |
|-----------------|--------------|----------------|------|----|------|----------------|
| KWA3-S401CRA    | Deep Red     | 630            | Gray | 20 | 32.0 | Common Cathode |
| KWA3-S401CAA    | Orange       | 605            |      |    | 38.0 |                |
| KWA3-S401CGA    | Yellow Green | 572            |      |    | 20.0 |                |
| KWA3-S401CGA-G5 | Pure Green   | 525            |      |    | 60.0 |                |
| KWA3-S401CBA    | Blue         | 470            |      |    | 42.0 |                |
| KWA3-S401CWA    | White        | x=0.30, y=0.31 |      |    | 74.0 | Common Anode   |
| KWA3-S401ARA    | Deep Red     | 630            |      |    | 32.0 |                |
| KWA3-S401AAA    | Orange       | 605            |      |    | 38.0 |                |
| KWA3-S401AGA    | Yellow Green | 572            |      |    | 20.0 |                |
| KWA3-S401AGA-G5 | Pure Green   | 525            |      |    | 60.0 |                |
| KWA3-S401ABA    | Blue         | 470            |      |    | 42.0 |                |
| KWA3-S401AWA    | White        | x=0.30, y=0.31 |      |    | 74.0 |                |

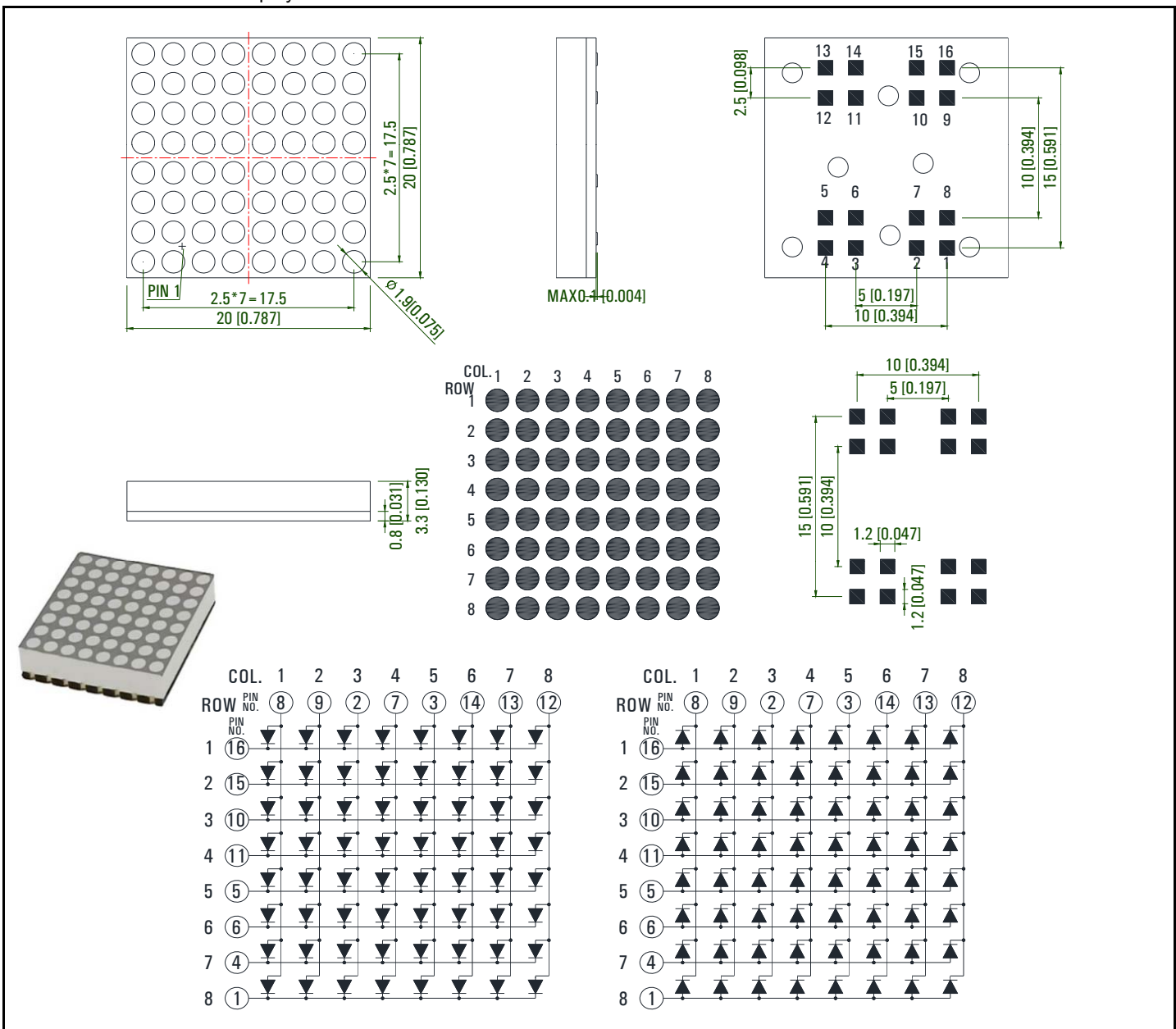
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | $I_F$ =mA                      | Typ. |                |

## 0.39" Quadruple Digit Alphanumeric SMD Display

| <table border="1"> <thead> <tr> <th>Part Number</th><th>Emitting Color</th><th><math>\lambda_d</math> (nm)<br/>/ x, y</th><th>Face Color</th><th><math>I_F</math>=mA</th><th>Typ.</th><th>Circuit Common</th></tr> </thead> <tbody> <tr> <td>KWA4-S392CRA</td><td>Deep Red</td><td>630</td><td rowspan="12">Gray</td><td rowspan="12">20</td><td>32.0</td><td rowspan="5">Common Cathode</td></tr> <tr> <td>KWA4-S392CAA</td><td>Orange</td><td>605</td><td>38.0</td></tr> <tr> <td>KWA4-S392CGA</td><td>Yellow Green</td><td>572</td><td>20.0</td></tr> <tr> <td>KWA4-S392CGA-G5</td><td>Pure Green</td><td>525</td><td>60.0</td></tr> <tr> <td>KWA4-S392CBA</td><td>Blue</td><td>470</td><td>42.0</td></tr> <tr> <td>KWA4-S392CWA</td><td>White</td><td>x=0.30, y=0.31</td><td>74.0</td><td rowspan="7">Common Anode</td></tr> <tr> <td>KWA4-S392ARA</td><td>Deep Red</td><td>630</td><td>32.0</td></tr> <tr> <td>KWA4-S392AAA</td><td>Orange</td><td>605</td><td>38.0</td></tr> <tr> <td>KWA4-S392AGA</td><td>Yellow Green</td><td>572</td><td>20.0</td></tr> <tr> <td>KWA4-S392AGA-G5</td><td>Pure Green</td><td>525</td><td>60.0</td></tr> <tr> <td>KWA4-S392ABA</td><td>Blue</td><td>470</td><td>42.0</td></tr> <tr> <td>KWA4-S392AWA</td><td>White</td><td>x=0.30, y=0.31</td><td>74.0</td></tr> </tbody> </table> |                |                            |            |           |      |                | Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | $I_F$ =mA | Typ. | Circuit Common | KWA4-S392CRA | Deep Red | 630 | Gray | 20 | 32.0 | Common Cathode | KWA4-S392CAA | Orange | 605 | 38.0 | KWA4-S392CGA | Yellow Green | 572 | 20.0 | KWA4-S392CGA-G5 | Pure Green | 525 | 60.0 | KWA4-S392CBA | Blue | 470 | 42.0 | KWA4-S392CWA | White | x=0.30, y=0.31 | 74.0 | Common Anode | KWA4-S392ARA | Deep Red | 630 | 32.0 | KWA4-S392AAA | Orange | 605 | 38.0 | KWA4-S392AGA | Yellow Green | 572 | 20.0 | KWA4-S392AGA-G5 | Pure Green | 525 | 60.0 | KWA4-S392ABA | Blue | 470 | 42.0 | KWA4-S392AWA | White | x=0.30, y=0.31 | 74.0 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------|------------|-----------|------|----------------|-------------|----------------|----------------------------|------------|-----------|------|----------------|--------------|----------|-----|------|----|------|----------------|--------------|--------|-----|------|--------------|--------------|-----|------|-----------------|------------|-----|------|--------------|------|-----|------|--------------|-------|----------------|------|--------------|--------------|----------|-----|------|--------------|--------|-----|------|--------------|--------------|-----|------|-----------------|------------|-----|------|--------------|------|-----|------|--------------|-------|----------------|------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | $I_F$ =mA | Typ. | Circuit Common |             |                |                            |            |           |      |                |              |          |     |      |    |      |                |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |              |              |          |     |      |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |
| KWA4-S392CRA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Deep Red       | 630                        | Gray       | 20        | 32.0 | Common Cathode |             |                |                            |            |           |      |                |              |          |     |      |    |      |                |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |              |              |          |     |      |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |
| KWA4-S392CAA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Orange         | 605                        |            |           | 38.0 |                |             |                |                            |            |           |      |                |              |          |     |      |    |      |                |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |              |              |          |     |      |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |
| KWA4-S392CGA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Yellow Green   | 572                        |            |           | 20.0 |                |             |                |                            |            |           |      |                |              |          |     |      |    |      |                |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |              |              |          |     |      |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |
| KWA4-S392CGA-G5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Pure Green     | 525                        |            |           | 60.0 |                |             |                |                            |            |           |      |                |              |          |     |      |    |      |                |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |              |              |          |     |      |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |
| KWA4-S392CBA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Blue           | 470                        |            |           | 42.0 |                |             |                |                            |            |           |      |                |              |          |     |      |    |      |                |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |              |              |          |     |      |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |
| KWA4-S392CWA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | White          | x=0.30, y=0.31             |            |           | 74.0 | Common Anode   |             |                |                            |            |           |      |                |              |          |     |      |    |      |                |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |              |              |          |     |      |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |
| KWA4-S392ARA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Deep Red       | 630                        |            |           | 32.0 |                |             |                |                            |            |           |      |                |              |          |     |      |    |      |                |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |              |              |          |     |      |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |
| KWA4-S392AAA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Orange         | 605                        |            |           | 38.0 |                |             |                |                            |            |           |      |                |              |          |     |      |    |      |                |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |              |              |          |     |      |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |
| KWA4-S392AGA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Yellow Green   | 572                        |            |           | 20.0 |                |             |                |                            |            |           |      |                |              |          |     |      |    |      |                |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |              |              |          |     |      |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |
| KWA4-S392AGA-G5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Pure Green     | 525                        |            |           | 60.0 |                |             |                |                            |            |           |      |                |              |          |     |      |    |      |                |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |              |              |          |     |      |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |
| KWA4-S392ABA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Blue           | 470                        |            |           | 42.0 |                |             |                |                            |            |           |      |                |              |          |     |      |    |      |                |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |              |              |          |     |      |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |
| KWA4-S392AWA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | White          | x=0.30, y=0.31             |            |           | 74.0 |                |             |                |                            |            |           |      |                |              |          |     |      |    |      |                |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |              |              |          |     |      |              |        |     |      |              |              |     |      |                 |            |     |      |              |      |     |      |              |       |                |      |

| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

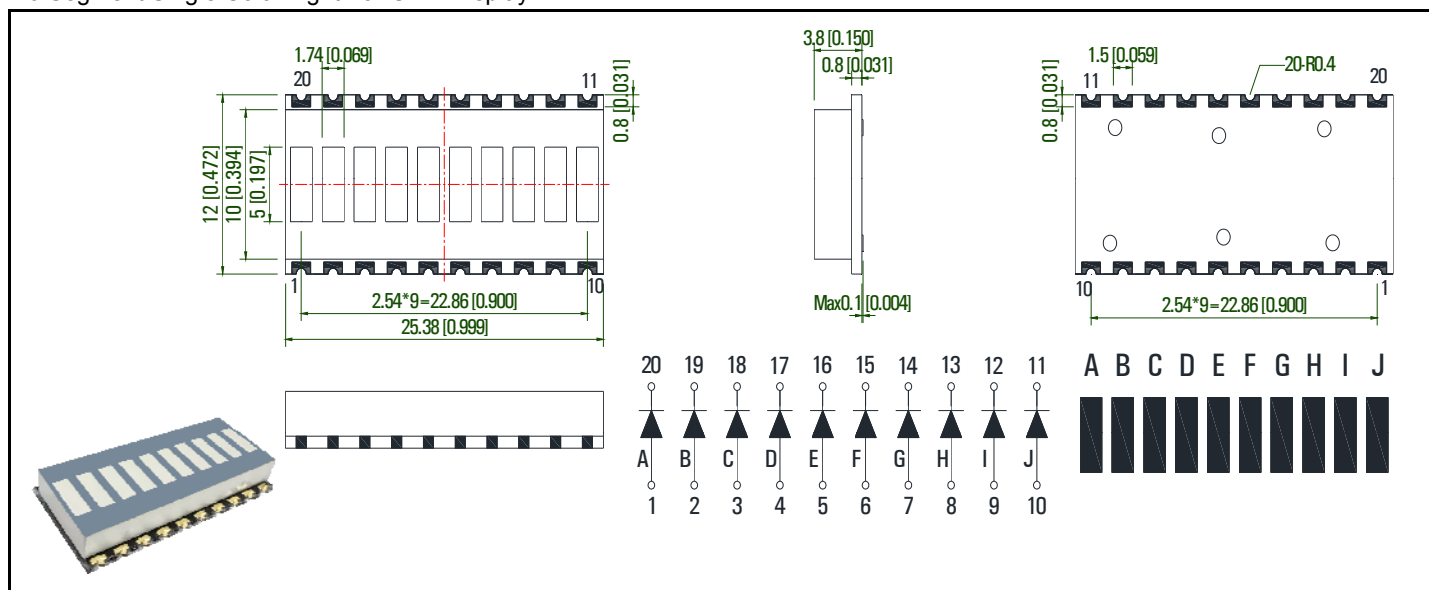
### 0.8" 8×8 Dot Matrix SMD Display



|                  |              |                |      |    |      |                |
|------------------|--------------|----------------|------|----|------|----------------|
| KWM-S20881CRA    | Deep Red     | 630            | Gray | 20 | 26.0 | Common Cathode |
| KWM-S20881CAA    | Orange       | 605            |      |    | 35.0 |                |
| KWM-S20881CGA    | Yellow Green | 572            |      |    | 17.0 |                |
| KWM-S20881CGA-G5 | Pure Green   | 525            |      |    | 56.0 |                |
| KWM-S20881CBA    | Blue         | 470            |      |    | 42.0 |                |
| KWM-S20881CWA    | White        | x=0.30, y=0.31 |      |    | 84.0 |                |
| KWM-S20881ARA    | Deep Red     | 630            |      |    | 26.0 | Common Anode   |
| KWM-S20881AAA    | Orange       | 605            |      |    | 35.0 |                |
| KWM-S20881AGA    | Yellow Green | 572            |      |    | 17.0 |                |
| KWM-S20881AGA-G5 | Pure Green   | 525            |      |    | 56.0 |                |
| KWM-S20881ABA    | Blue         | 470            |      |    | 42.0 |                |
| KWM-S20881AWA    | White        | x=0.30, y=0.31 |      |    | 84.0 |                |

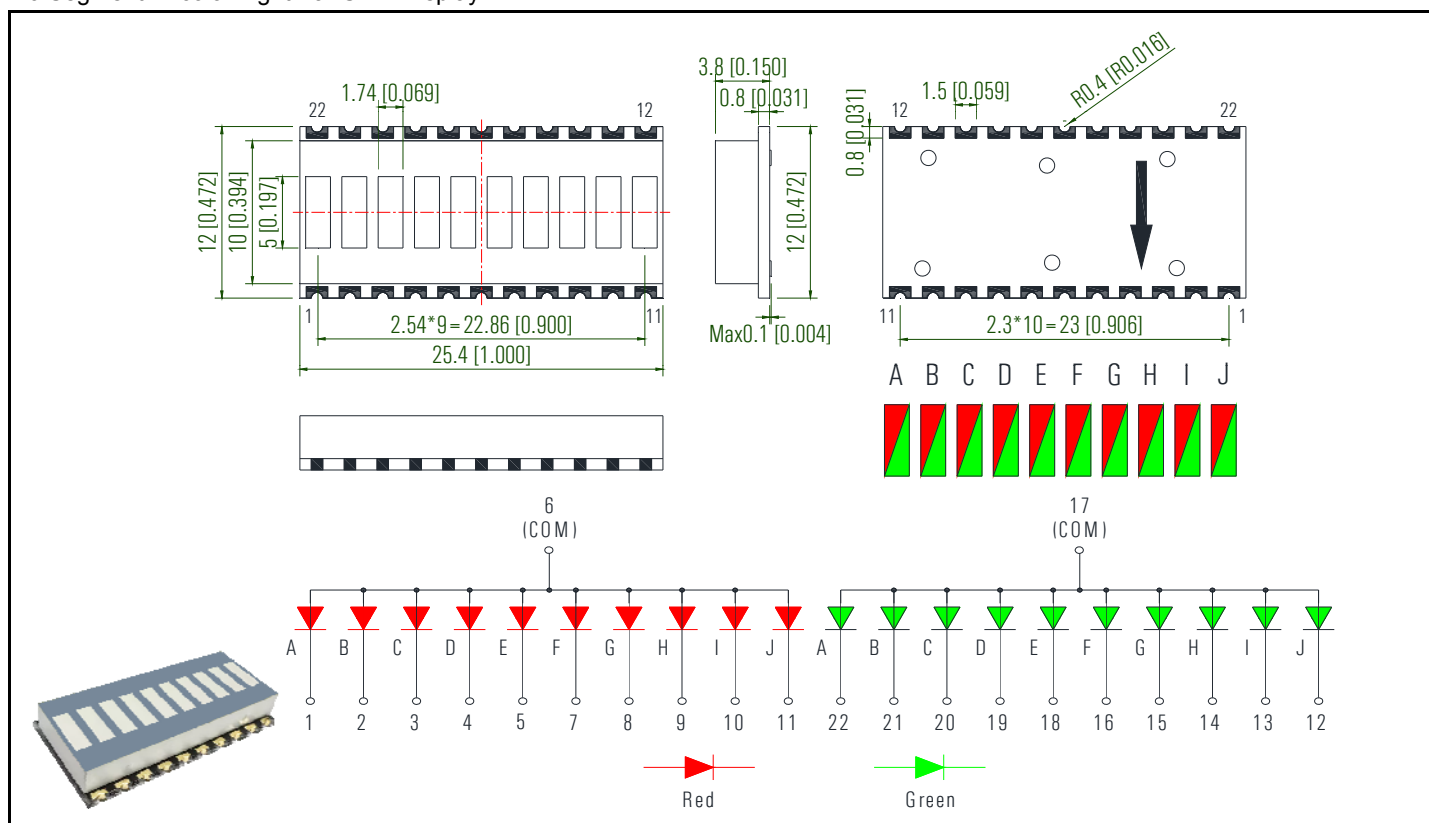
| Part Number | Emitting Color | $\lambda_d$ (nm)<br>/ x, y | Face Color | Luminous Intensity $I_v$ (mcd) |      | Circuit Common |
|-------------|----------------|----------------------------|------------|--------------------------------|------|----------------|
|             |                |                            |            | IF=mA                          | Typ. |                |

## 10 Segment Single Color Light Bar SMD Display



|                 |              |                |      |    |      |     |
|-----------------|--------------|----------------|------|----|------|-----|
| KWL-SR1025RA    | Deep Red     | 630            | Gray | 20 | 26.0 | --- |
| KWL-SR1025AA    | Orange       | 605            |      |    | 35.0 |     |
| KWL-SR1025GA    | Yellow Green | 572            |      |    | 17.0 |     |
| KWL-SR1025GA-G5 | Pure Green   | 525            |      |    | 56.0 |     |
| KWL-SR1025BA    | Blue         | 470            |      |    | 42.0 |     |
| KWL-SR1025WA    | White        | x=0.30, y=0.31 |      |    | 84.0 |     |

## 10 Segment Bi-color Light Bar SMD Display



|                 |            |     |      |    |      |              |
|-----------------|------------|-----|------|----|------|--------------|
| KWL-SR10251ARGA | Deep Red   | 630 | Gray | 20 | 26.0 | Common Anode |
|                 | Pure Green | 525 |      |    | 56.0 |              |

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25\text{mm}$  (.010") unless otherwise noted.
3. Specifications are subject to change without notice.