



### Dimensions

inches [mm]

Figure 1

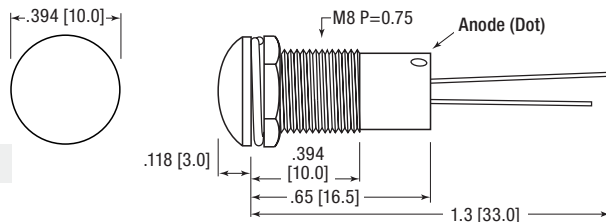


Figure 2

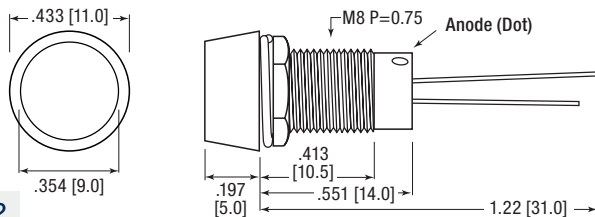


Figure 3

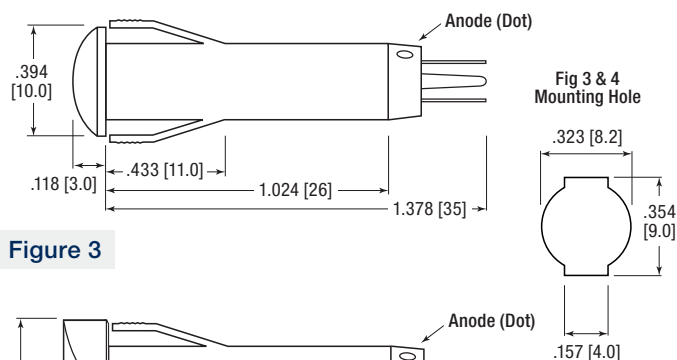
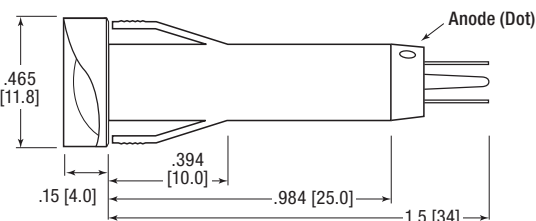


Figure 4



6" Wire Leads

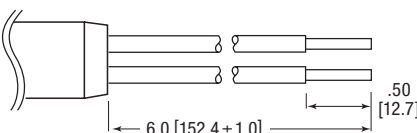
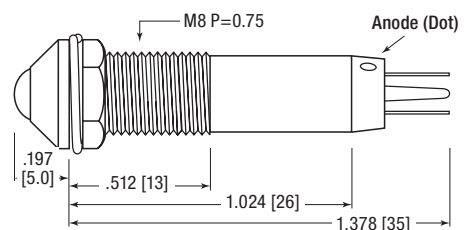


Figure 5



### Certifications & Ratings

- RoHS compliant
- IP66 (protruding type only)

### Application

The 678 Series LED Panel Mount Indicators are designed for a variety of applications such as:

- Main power indication
- Remote power indication
- Status indication
- Maintenance and warning indication
- Instrumentation
- ... and many more!

### Mechanical Information

**Mounting Hole Size:** 0.323" (8.2 mm) [Fig. 1 & 2]; 0.335" (8.5 mm) [Fig. 5]; see diagram for Figs. 3 & 4

**Max Panel Thickness:** see part number table

**Mounting Torque:** 0.271 lbs/ft (3 kg/cm) [Fig. 1 & 2]  
0.362 lbs/ft (5 kg/cm) torque [Fig. 5]

### Specifications

**Operating Voltage:** 2 & 3.3 VDC [Fig. 1 & 2]; 6, 12 & 24 VDC [Fig. 3, 4, & 5] (no resistor required)

**Operating Temp:** -20 °C to +75 °C (-4 °F to 167 °F)

**Storage Temp:** -40 °C to +100 °C (-40 °F to 212 °F)

**Electrical Connection:** Straight leads [Fig. 1 & 2]; Solder terminals or 6" wire leads [Fig. 3, 4, & 5]

**Housing:** Protruding: Chrome plated brass;  
Internal position: Polycarbonate

**Terminals:** Copper — Nickel Plated

**Lock Washer:** Iron — Nickel Plated

**Nut:** Brass — Nickel Plated

## Ordering Information 678

| Part Number    | Color | Voltage (V DC) | Current (mA) | Typical Intensity (mcd) | Viewing Angle | LED Position | Fig. # | Mount Style | Panel Thickness |
|----------------|-------|----------------|--------------|-------------------------|---------------|--------------|--------|-------------|-----------------|
| Straight Leads |       |                |              |                         |               |              |        |             |                 |

### Polycarbonate

|               |        |     |    |       |    |          |   |                   |                 |
|---------------|--------|-----|----|-------|----|----------|---|-------------------|-----------------|
| 678-1131-111F | Red    | 2   | 15 | 2210  | 4  | Internal | 1 | Lock washer & nut | .2165" (5.5 mm) |
| 678-1231-112F | Green  | 3.3 |    | 46860 |    |          |   |                   |                 |
| 678-1331-113F | Orange | 2   |    | 2210  |    |          |   |                   |                 |
| 678-1431-114F | Blue   | 3.3 |    | 7100  |    |          |   |                   |                 |
| 678-3131-111F | Red    | 2   |    | 3020  | 40 |          | 2 |                   |                 |
| 678-3231-112F | Green  | 3.3 |    | 30600 | 20 |          |   |                   |                 |
| 678-3331-113F | Orange | 2   |    | 3260  | 20 |          |   |                   |                 |
| 678-3431-114F | Blue   | 3.3 |    | 4360  | 40 |          |   |                   |                 |

| Solder Terminals | 6" Wire Leads |                    |    |    |       |    |          |          |          |                    |          |   |
|------------------|---------------|--------------------|----|----|-------|----|----------|----------|----------|--------------------|----------|---|
| 678-1132-221F    | 678-1135-221F | <div></div> Red    | 6  | 15 | 2210  | 5  | Internal | 3        | Snap-fit | 0.197"<br>(5.0 mm) |          |   |
| 678-1232-222F    | 678-1235-222F | <div></div> Green  |    |    | 41430 | 6  |          |          |          |                    |          |   |
| 678-1332-223F    | 678-1335-223F | <div></div> Orange |    |    | 8535  | 10 |          |          |          |                    |          |   |
| 678-1432-224F    | 678-1435-224F | <div></div> Blue   |    |    | 5473  | 6  |          |          |          |                    |          |   |
| 678-1132-231F    | 678-1135-231F | <div></div> Red    | 12 |    | 2210  | 5  |          | Internal |          |                    | 3        |   |
| 678-1232-232F    | 678-1235-232F | <div></div> Green  |    |    | 41430 | 6  |          |          |          |                    |          |   |
| 678-1332-233F    | 678-1335-233F | <div></div> Orange |    |    | 8535  | 10 |          |          |          |                    |          |   |
| 678-1432-234F    | 678-1435-234F | <div></div> Blue   |    |    | 5473  | 6  |          |          |          |                    |          |   |
| 678-1132-241F    | 678-1135-241F | <div></div> Red    | 24 |    | 2210  | 5  |          |          |          |                    | Internal | 4 |
| 678-1232-242F    | 678-1235-242F | <div></div> Green  |    |    | 41430 | 6  |          |          |          |                    |          |   |
| 678-1332-243F    | 678-1335-243F | <div></div> Orange |    |    | 8535  | 10 |          |          |          |                    |          |   |
| 678-1432-244F    | 678-1435-244F | <div></div> Blue   |    |    | 5473  | 6  |          |          |          |                    |          |   |
| 678-2132-221F    | 678-2135-221F | <div></div> Red    | 6  |    | 12700 | 5  | Internal |          |          |                    |          | 4 |
| 678-2232-222F    | 678-2235-222F | <div></div> Green  |    |    | 16490 | 15 |          |          |          |                    |          |   |
| 678-2332-223F    | 678-2335-223F | <div></div> Orange |    |    | 5780  | 8  |          |          |          |                    |          |   |
| 678-2432-224F    | 678-2435-224F | <div></div> Blue   |    |    | 2514  | 20 |          |          |          |                    |          |   |
| 678-2132-231F    | 678-2135-231F | <div></div> Red    | 12 |    | 12700 | 5  |          | Internal |          |                    |          | 4 |
| 678-2232-232F    | 678-2235-232F | <div></div> Green  |    |    | 16490 | 15 |          |          |          |                    |          |   |
| 678-2332-233F    | 678-2335-233F | <div></div> Orange |    |    | 5780  | 8  |          |          |          |                    |          |   |
| 678-2432-234F    | 678-2435-234F | <div></div> Blue   |    |    | 2514  | 20 |          |          |          |                    |          |   |
| 678-2132-241F    | 678-2135-241F | <div></div> Red    | 24 |    | 12700 | 5  |          |          |          |                    | Internal | 4 |
| 678-2232-242F    | 678-2235-242F | <div></div> Green  |    |    | 16490 | 15 |          |          |          |                    |          |   |
| 678-2332-243F    | 678-2335-243F | <div></div> Orange |    |    | 5780  | 8  |          |          |          |                    |          |   |
| 678-2432-244F    | 678-2435-244F | <div></div> Blue   |    |    | 2514  | 20 |          |          |          |                    |          |   |

### White Nickel

|               |               |                    |    |    |      |    |            |   |                   |                 |
|---------------|---------------|--------------------|----|----|------|----|------------|---|-------------------|-----------------|
| 678-1112-321F | 678-1115-321F | <div></div> Red    | 6  | 15 | 320  | 20 | Protruding | 5 | Lock washer & nut | .3158" (8.0 mm) |
| 678-1212-322F | 678-1215-322F | <div></div> Green  |    |    | 2920 |    |            |   |                   |                 |
| 678-1312-323F | 678-1315-323F | <div></div> Orange |    |    | 490  |    |            |   |                   |                 |
| 678-1412-324F | 678-1415-324F | <div></div> Blue   |    |    | 220  |    |            |   |                   |                 |
| 678-1112-331F | 678-1115-331F | <div></div> Red    | 12 |    | 320  |    |            |   |                   |                 |
| 678-1212-332F | 678-1215-332F | <div></div> Green  |    |    | 2920 |    |            |   |                   |                 |
| 678-1312-333F | 678-1315-333F | <div></div> Orange |    |    | 490  |    |            |   |                   |                 |
| 678-1412-334F | 678-1415-334F | <div></div> Blue   |    |    | 220  |    |            |   |                   |                 |
| 678-1112-341F | 678-1115-341F | <div></div> Red    | 24 |    | 320  |    |            |   |                   |                 |
| 678-1212-342F | 678-1215-342F | <div></div> Green  |    |    | 2920 |    |            |   |                   |                 |
| 678-1312-343F | 678-1315-343F | <div></div> Orange |    |    | 490  |    |            |   |                   |                 |
| 678-1412-344F | 678-1415-344F | <div></div> Blue   |    |    | 220  |    |            |   |                   |                 |

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