



CS/BS Series T1 Panel Mount Reflector LED

Special Features

- Sealed against moisture and dust – watertight gasket option and IP66 sealing available
- Optional internal resistor for 5V-60VDC – resistor on lead for 3 leaved bicolor LED
- Custom assemblies for 5V-60VAC and 120VAC
- Mil Spec MIL-W22759/33 wire and connector options

Specifications

- Mounting hole: .230" ± .002" (5.84 ± 0.05 mm)
- Termination: 24 AWG UL1061 6.0" (152.4mm) red (anode) and black (cathode) leads stripped to .250" (6.35 mm) standard or LED pins
- Housing: Nickel-plated brass or black anodized brass housing
- Maximum panel thickness: .130"(3.30mm) standard, .070"(1.78mm) with gasket
- Mounting torque: 20 +/- 2 in-lb (2.26 +/- 0.23N-m)

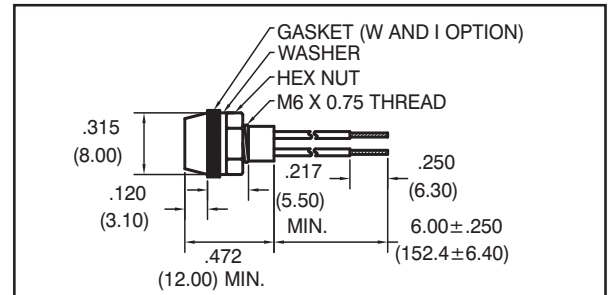
Electrical and Optical Characteristics (TA = 25°C)

| LED Part # | Color | Luminous Intensity (mcd) Typ. @ I _f (mA) | V _f Typ. @ I _f (mA) | Viewing Angle 2 θ ½ | Peak Wavelength (nm) | | |
|---|--------|--|---|------------------------|----------------------|-----|-----|
| HIGH EFFICIENCY | | | | | | | |
| 8708 | Red | 40.0 | 20 | 2.0 | 20 | 35° | 635 |
| 8709 | Green | 40.0 | 20 | 2.2 | 20 | 35° | 568 |
| 8710 | Yellow | 30.0 | 20 | 2.1 | 20 | 35° | 585 |
| LOW CURRENT (Use-0001 for resistor code) | | | | | | | |
| 8702 | Red | 6.0 | 2 | 1.8 | 2 | 40° | 635 |
| 8703 | Green | 8.0 | 2 | 1.8 | 2 | 40° | 568 |
| 8704 | Yellow | 4.0 | 2 | 1.9 | 2 | 40° | 585 |
| BICOLOR (2 leaved) | | | | | | | |
| 8700 | Red | 30.0 | 20 | 2.0 | 20 | 45° | 635 |
| | Green | 30.0 | 20 | 2.2 | 20 | | 568 |
| 8701 | Yellow | 15.0 | 20 | 2.1 | 20 | 45° | 585 |
| | Green | 30.0 | 20 | 2.2 | 20 | | 568 |
| BICOLOR (3 leaved-common cathode) | | | | | | | |
| 3804 | Red | 44.0 | 20 | 2.0 | 20 | 60° | 627 |
| | Green | 34.0 | 20 | 2.2 | 20 | | 565 |
| 3803 | Yellow | 17.0 | 20 | 2.1 | 20 | 60° | 590 |
| | Green | 34.0 | 20 | 2.2 | 20 | | 565 |
| BLINKING (Operates at 3.5V to 14V, blinking frequency from 3.0Hz to 1.5Hz) | | | | | | | |
| 8713 | Red | 198.0 | 22 | 5.0 | 22 | 60° | 660 |
| ULTRA BRIGHT - DAYLIGHT READABLE | | | | | | | |
| 2702 | Red | 299.0 | 20 | 1.85 | 20 | 60° | 660 |
| 2700 | Green | 199.0 | 20 | 2.1 | 20 | 60° | 574 |
| 2701 | Yellow | 219.0 | 20 | 2.0 | 20 | 60° | 590 |
| SUPER BLUE | | | | | | | |
| 8711 | Blue | 2300.0 | 20 | 3.5 | 20 | 25° | 470 |
| WHITE | | | | | | | |
| 8712 | White | 250.0 | 20 | 3.6 | 20 | 30° | N/A |



3mm Panel Mount LED Assemblies

Package Dimensions



All dimensions are in inches (mm)

Resistor Chart

| OPERATING SPECIFICATIONS | | | | |
|--------------------------|---------|--------------|---|---|
| Resistor Value Code | Voltage | Current (mA) | Resistor Value (Ohms) Green, Yellow Red, Bicolor LED | Resistor Value (Ohms) Blue, White LED |
| 0000 | 2 | 10 or 20 | None | Not Available |
| 9900 | 5 | 10 | | |
| 9928 | 5 | 10 | | 121 |
| 9901 | 12 | 10 | 1000 | |
| 9902 | 12 | 10 | | 715 |
| 9903 | 24 | 10 | 2210 | |
| 9904 | 24 | 10 | | 1910 |
| 9905 | 28 | 10 | 2610 | |
| 9906 | 28 | 10 | | 2320 |
| 9907 | 5 | 20 | 150 | |
| 9922 | 5 | 20 | | 65 |
| 9908 | 12 | 20 | 511 | |
| 9909 | 12 | 20 | | 357 |
| 9910 | 24 | 20 | 1100 | |
| 9911 | 24 | 20 | | 953 |
| 9912 | 48 | 9 | 4870 | |
| 9913 | 48 | 9 | | 4350 |
| 9914 | 60 | 7 | 8250 | |
| 9915 | 60 | 7 | | 7500 |
| 9920 | 120VAC | 8 | 6490 | Contact WLI |

Note: Bi-Color and Tri-Color not available in AC voltages

How To Order

