



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 leaded bicolor LED
- Custom assemblies for 5V-60VAC and 120VAC
- Mil Spec MIL-W22759/33 wire and connector options

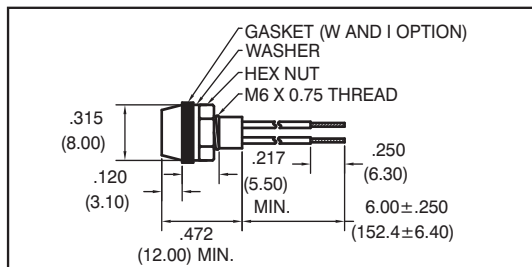
Specifications

- 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-mm)



3mm Panel Mount LED Assemblies

Package Dimensions



All dimensions are in inches (mm)

Resistor Chart

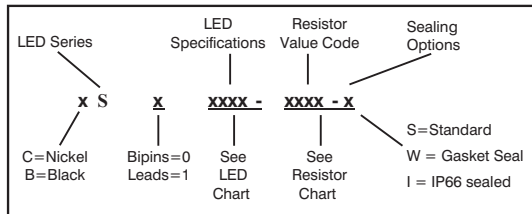
Electrical and Optical Characteristics (TA = 25°C)

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 leaded)							
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 leaded-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

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

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