LED INDICATOR

SOLID FRONT WATERTIGHT PANEL SEAL



Model ML2030

Designed for use where a watertight panel seal is required for system performance. Can be used as a function indicator on aircraft avionics systems, test equipment, medical equipment, machine tools, and wherever severe environmental conditions are present.

FEATURES

- · O-ring panel seal
- · Dual finish case
- · Low power use
- · Performs in severe environments
- · Rugged construction

MECHANICAL SPECIFICATIONS

Case: Aluminum, black anodized front bezel with conductive clear chromate body.

Mounting: Front panel mount with 5/16"-32 nut and lock washer.

Seal: Environmentally sealed case. MIL-DTL-3661,

Para. 4.6.11.1

O-ring: Fluorosilicone rubber



ENVIRONMENTAL SPECIFICATIONS

Vibration: .06" D.A. or 20 Gs Peak, whichever is less, 10Hz to

2kHz, MIL STD 202, Method 204, Test Condition D

Shock: 100 Gs MIL STD 202, Method 213, Test Condition I Moisture Resistance (Humidity): MIL STD 202, Method 106

Barometric Pressure (Reduced): 100,000 ft., MIL STD 202, Method 105, Test Condition D

Reliability: 3 x 106 hours min. MTBF @ 25°C

Salt Atmosphere (Corrosion): MIL STD 202, Method 101,

Test Condition B

ELECTRO-OPTICAL CHARACTERISTIC SPECIFICATIONS

Absolute Maximum Ratings @Temp = 25°C						
Color	Red	Yellow	Green			
Forward Voltage (VDC)	1.9	2.0	2.1			
DC Forward Current (mA DC) ①	30	20	30			
Reverse Voltage (VDC) @ I _R = 100 µA	5	5	5			
Power Dissipation (mW)	135	85	135			
Luminous Intensity (mcd) typical @ $I_F = 10 \text{ mA}$ Non-diffused Diffused	60 11	50 12	70 12			
Dominant Wave Length (nm) typical	626	585	569			
Viewing Angle (2 Ø ^{1/2}) typical Non-diffused Diffused	35° 60°	35° 60°	24° 60°			
Operating Temperature (°C)	-55 to +100	-55 to +100	-20 to +100			
Storage Temperature (°C)	-55 to +100	-55 to +100	-55 to +100			
Lead Soldering Temperature	260°C for 5 seconds					

Notes: ① For red and green, derate linearly from 50°C @ 0.5 mA/°C. For yellow derate linearly from 50°C @ 0.2 mA/°C

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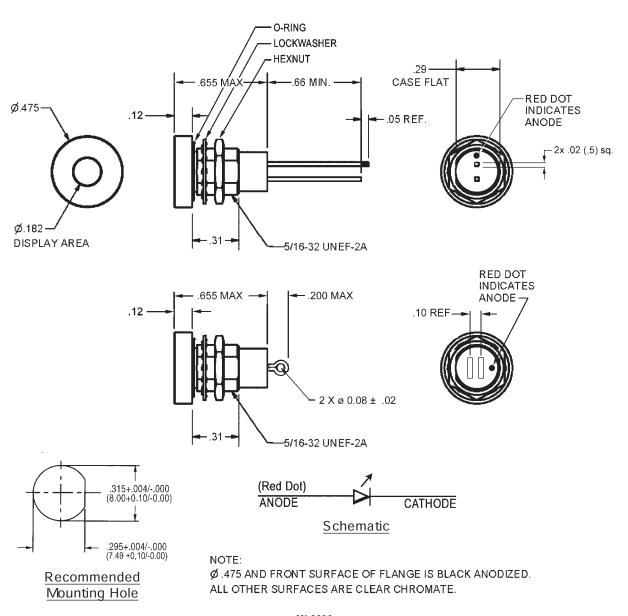
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ORDERING INFORMATION

When ordering, show basic part number first, LED color, lens type, and terminal style. If this part requires customization, a special factory assigned modification number will be assigned to the end of the ordering number. Consult the factory for special configurations.

Example: Basic model with EMI screen, a red LED, a diffused lens, and looped terminals would be ML2030E-R-D-LT.

ML2030E - R - D - LT - ()							
Basic				Standard factory options are designated by "-Sxxx"			
Model Number	EMI Screen	LED Color	Lens Type	Terminal Style			
ML 2030		R Red	ND Non-diffused	ST Straight Leads			
	E Screen	Y Yellow	D Diffused	LT Loop Terminals			
		G Green					



ML2030

NOTE: Dimensions in () are mm. Tolerances: Decimals: ± .010 (0.25) Fractions: ± 1/64 Mounting Torque: 10-12 in. lbs.

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