MINIATURE LED INDICATOR PANEL MOUNT



Models ML1620-S & ML1630-S

Designed for use as function indicators on aircraft, test equipment, machine tools, and wherever severe environmental conditions need to be met, especially vibration and EMI.

FEATURES

- · Performs in severe environments
- Low power use
- · High efficiency
- · High luminosity
- · Rugged construction
- · Readily mounted on panel
- · Optional EMI screen

MECHANICAL SPECIFICATIONS

Case: Aluminum, black anodized front with conductive clear chromate back

Mounting: Front panel by 5/16"-32 nut and lockwasher Seal: Environmentally sealed. Added front Panel O-ring seal

for model ML1630.



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) typical @ 20 mA		1.9	2.1	2.2					
DC Forward Current (mA DC)		30	30	25					
Reverse Voltage (VDC) @ I _R = 100 μA		5	5	5					
Power Dissipation (mW) ①		100	105	105					
Luminous Intensity (mcd) typical @ I _F = 20 mA DC	Diffused	250	300	40					
Dominant Wave Length (nm) typical		640	588	568					
Viewing Angle (2 Ø 1/2) typical	Diffused		60°						
Operating Temperature (°C)		•	-40 to +85						
Storage Temperature (°C)	-55 to +100								
Lead Soldering Temperature	260°C for 5 seconds								

Notes: ① Power derating: derate linearly from 25°. For Green and Yellow: -1.2mW/°C. For Red: -1.3mW/°C

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MINIATURE LED INDICATOR

PANEL MOUNT

ORDERING INFORMATION

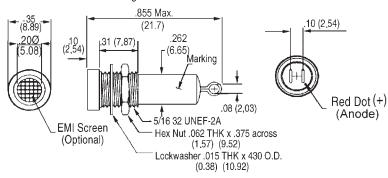
When ordering, show basic part number first, then EMI screen, LED color, and lens type. If this is a special part, a factory assigned modification number will be added at the end of the ordering number. Consult the factory for special configurations.

Example: Basic model with an O-ring panel seal, an EMI screen, a red LED, a diffused lens, and straight leads would be ML1630E-SR-D-ST.

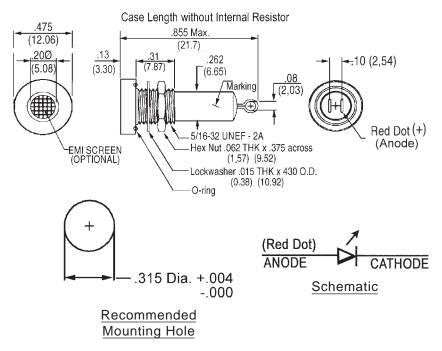
ML1630E - SR - D - ST - () - ()										
				St		andard factory options are designated by "-Sxxx"				
Basic Model Number	EMÍ Screen	LED Color	Lèns Type	Terminal Style	Internal Resistor					
ML1620 (w/o O-ring)	() None	SR Red	ND Non-diffused	ST Straight Leads	() No	Resistor				
ML1630 (with O-ring)	E Screen	SY Yellow	D Diffused	LT Loop Terminals	5	5V*				
		SG Green			12	12V*				
					14	14V*				
					24	24V*				
					28	28V*				

^{*}Operating temperature for internal resistor option is -40°C to +85°C

Case Length without Internal Resistor



ML1620-S



ML1630-S

NOTE: Dimensions in () are mm. Tolerances: Decimals: ± .010 (0.25) Fractions: ± 1/64 Mounting Torque: 5-7 in. lbs.

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