

LED INDICATOR

THREE LEAD BI-COLOR PANEL MOUNT



Models ML1623-S & ML1633-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

- Multiple status indication within a single package
- Performs in severe environments
- Low power use
- Rugged construction
- Panel mounted
- Optional EMI screen

MECHANICAL SPECIFICATIONS

Case: Aluminum, black anodized front with clear chromate back

Mounting: Front panel by 5/16"-32 nut and lockwasher

Seal: Environmentally sealed. Added front panel O-ring seal for model ML1633.



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: 3×10^6 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 / Green		Yellow / Green	
Forward Voltage (VDC) typical @ 20 mA	1.7	2.2	2.1	2.2
Peak Forward Current (mA) ①	150	150	150	150
DC Forward Current (mA)	30	25	30	25
Reverse Voltage (VDC) @ I _R = 100 μA	5	5	5	5
Power Dissipation (mW) ②	100	105	100	105
Luminous Intensity (mcd) typical	Non-diffused Diffused	500	140	NA
@ I _F = 20 mA DC		200	60	150
Dominant Wave Length (nm) typical		640	568	588
Viewing Angle (2 Ø ^{1/2}) typical	Non-diffused Diffused	30° 60°	30° 60°	
Operating Temperature (°C)	-40 to +85		-40 to +85	
Storage Temperature (°C)	-55 to +100		-55 to +100	
Lead Soldering Temperature	260°C for 5 seconds			

Notes: ① Typical pulsing values: $t_p \leq 10 \mu sec$, Duty cycle = 10%
② Derate at 1.6 mW/°C above +25°C Ambient

*These characteristics reflect the baseline model. Variations may imply a difference in luminous characteristics and/or operability features. Please contact the EDI Sales Department for more information.

This page consists of basic marketing information that is not defined as technical data under FAR Part 772.

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ORDERING INFORMATION

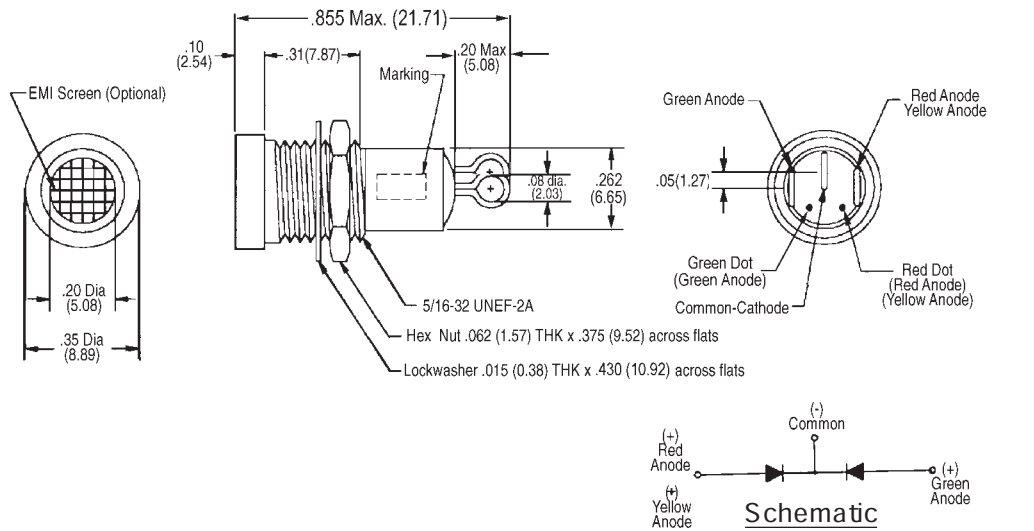
When ordering, show model number first, followed by EMI screen, then LED color, lens type, and terminal style. If this is a special part, a factory assigned modification number will be added at the end of the ordering number. Consult the factory for special configurations.

Example: Basic model without an O-ring panel seal, with an EMI screen, a yellow/green LED, a diffused lens, and loop terminals would be an ML1623E-SY/SG-D-LT.

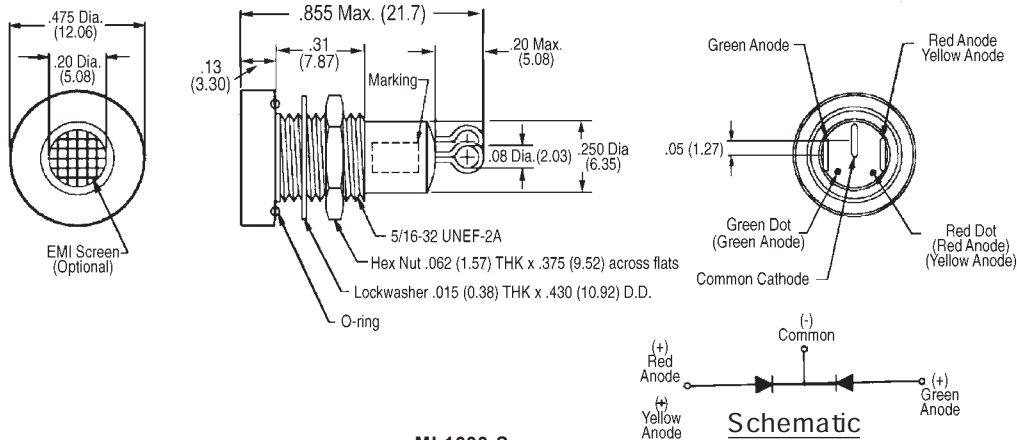
ML1623E - SY/SG - D - LT - ()

Standard factory options are designated by "-Sxxx"

Basic Model Number	EMI Screen	LED Color	Lens Type	Terminal Style
ML1623 (w/o O-ring)	() None	SR/SG Red/Green	ND Non-diffused	ST Straight Leads
ML1633 (with O-ring)	E Screen	SY/SG Yellow/Green	D Diffused	LT Loop Terminals



ML1623-S



ML1633-S
with front panel O-ring

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

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