

Three Lead Bicolor LED Indicator

ML 1623/ML 1633

FEATURES

- Multiple Status Indication within a Single Package
- Performs in Severe Environments
- Low Power Use
- Rugged Construction
- Panel Mounted
- Optional EMI Screen
- Internal Resistor Available

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.

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 ML 1633.

ENVIRONMENTAL SPECIFICATIONS

Vibration*: .06" D.A. or 20 G's Peak, whichever is less, 10 Hz to 2 kHz, MIL STD 202, Method 204, Test Condition D.

Shock: 100 G's MIL STD 202, Method 213, Test Condition I.

Humidity: MIL STD 202, Method 106.

Altitude: 100,000 ft., MIL STD 202, Method 105, Test Condition D.

Reliability: Operational 6x10⁶ hrs. min. MTBF @ 25°C

Salt Spray: MIL STD 202, Method 101, Test Condition B.

ELECTRO-OPTICAL CHARACTERISTIC SPECIFICATIONS Absolute Maximum Ratings

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Colors	Red/Green		Yellow/Green	
Forward Voltage (VDC)	2.2	2.8	2.8	2.8
Peak Forward Current (mA)	90	90	90	90
DC Forward Current (mA)	30	30	30	30
Reverse Voltage (VDC)@ I _R = 100 µA	5	5	5	5
Power Dissipation (mW)	100	105	105	105
Luminous Intensity (mcd) typ @ If=20 mA	17	15	12	12
Dominant Wave Length (nm) typical	560	565	585	565
Viewing Angle	55°		55°	
Operating Temperature (°C)	-40 to +85	-40 to +85	-40 to +85	-40 to +85
Storage Temperature (°C)	-40 to +100	-40 to +100	-40 to +100	-40 to +100
Lead Soldering Temperature	260°C for 5 sec.			

*Derate linearly from 50°C at 0.5 mA/°C

²Derate at 1.6 mW/°C above +25°C Ambient

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, the factory assigned modification number will be added at the end of the ordering number.

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 ML1633E-Y/G-D-LT.

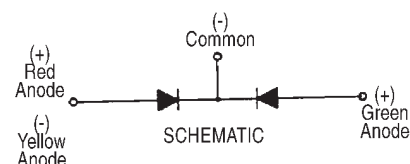
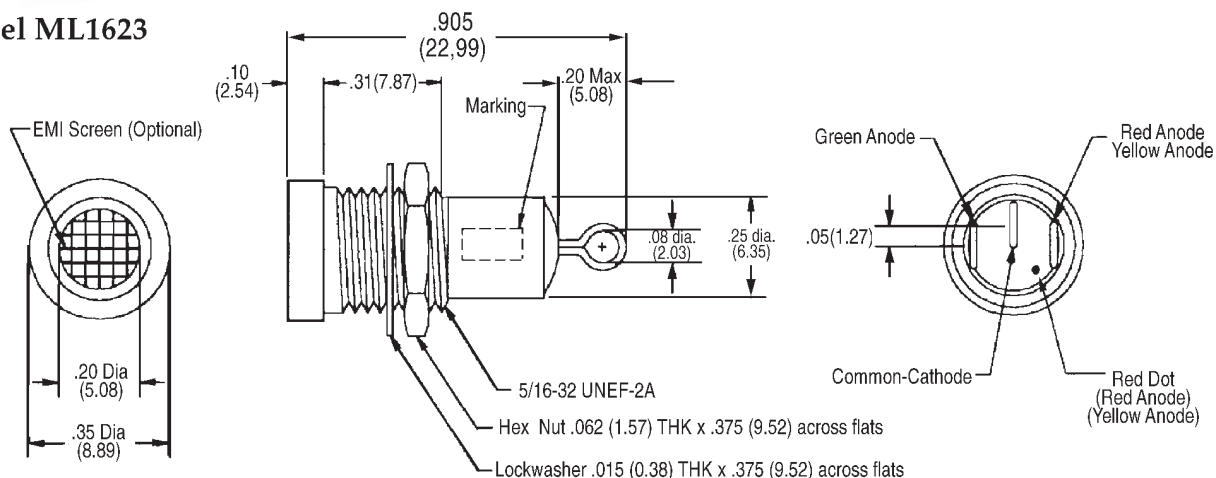
ML 1623 E- Y/G - D -LT - S ()					
Basic Model Number	EMI Screen	LED Color	Lens Type	Terminal Style	Factory Modification Number if Special
ML 1623 (w/o O-ring)	() None E Screen	R/G Red/Green Y/G Yellow/Green	ND Non-Diffused D Diffused	ST Straight Lead LT Solder Loop	S.+ ID No.
ML 1633 (w/ o-ring)					

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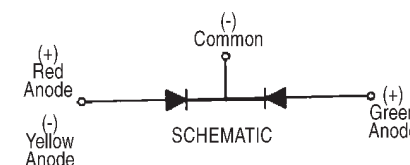
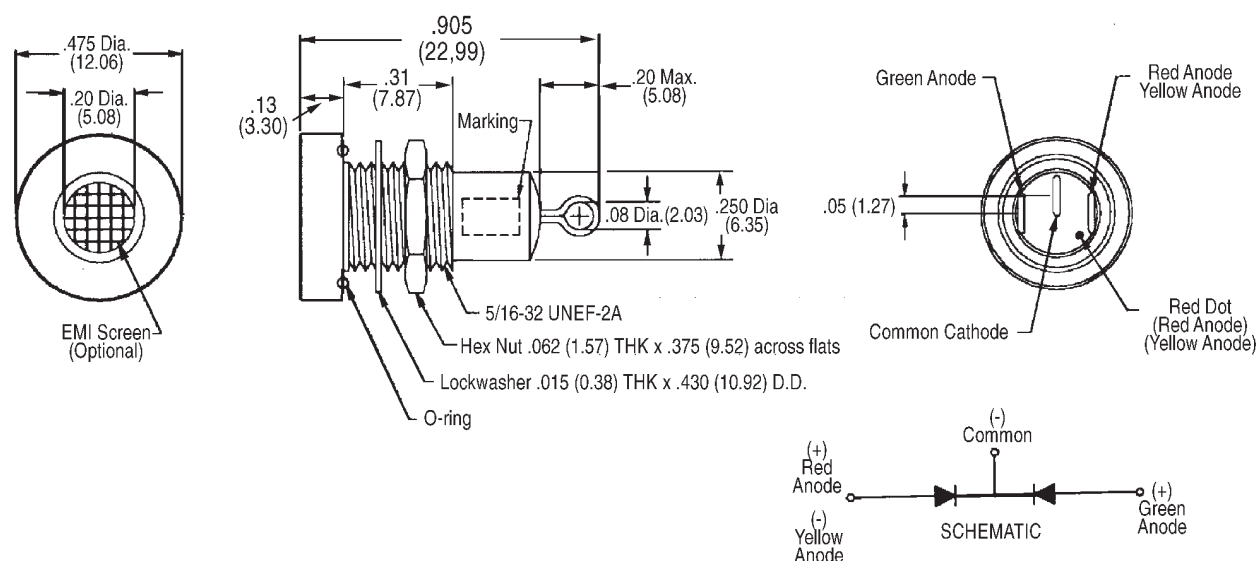
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Model ML1623



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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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