

Bicolor LED Indicator

ML 1622/ML 1632

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.

ENVIRONMENTAL SPECIFICATIONS

Vibration*: .06" D.A. or 20G 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 6 X 10⁶ hours min. MTBF @ 25°C.

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

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 1632

ELECTRO-OPTICAL CHARACTERISTIC SPECIFICATIONS Absolute Maximum Ratings

ML 1622/1632

Colors	Red/Green		Yellow/Green	
Forward Voltage (VDC)	2.0		2.0	
Peak Forward Current (mA)	90	90	90	90
DC Forward Current (mA)	20	20	30 ¹	30 ¹
Reverse Voltage (VDC) @ I _R = 100 µA	5	5	5	5
Power Dissipation (mW)	80 ²	100 ²	100 ²	100 ²
Luminous Intensity (mcd) typ @ I _F = 20 mA	17	15	12	12
Dominant Wave Length (nm) typical	695	565	585	565
Viewing Angle (2 Ø ^{1/2})	80°	80°	80°	80°
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 seconds			

¹Derate linearly from 50°C at 0.5 mA/°C

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

ORDERING INFORMATION

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

Example: Basic model with O-ring panel seal, an EMI screen, with a yellow/green LED, a non-diffused lens, loop terminals and 24 volt internal resistor would be an ML 1632 E-R/G-ND-LT-24

ML 1632 E- R/G - ND -LT - 24 - S ()

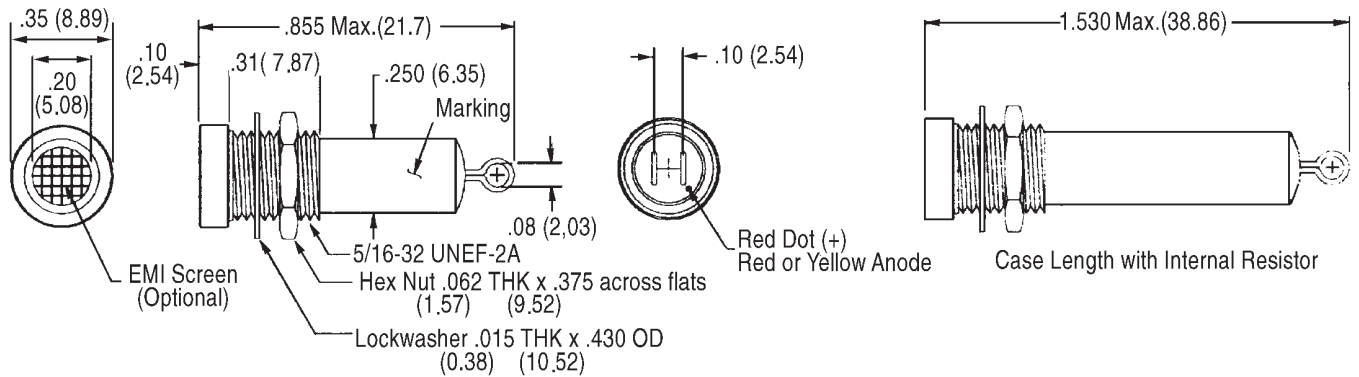
Basic Model Number	EMI Screen	LED. Color	Lens Type	Terminal Style	Voltage Level	Factory Modification Number if Special
ML 1622 (w/o O-ring)	() None E Screen	R/G Red/Green Y/G Yellow/Green	ND Non-Diffused D Diffused	ST Straight Lead LT Solder Loop	() no resistor 5 5V 14 14V 24 24V 28 28V	S.+ ID No.
ML 1632 (w/ o-ring)						

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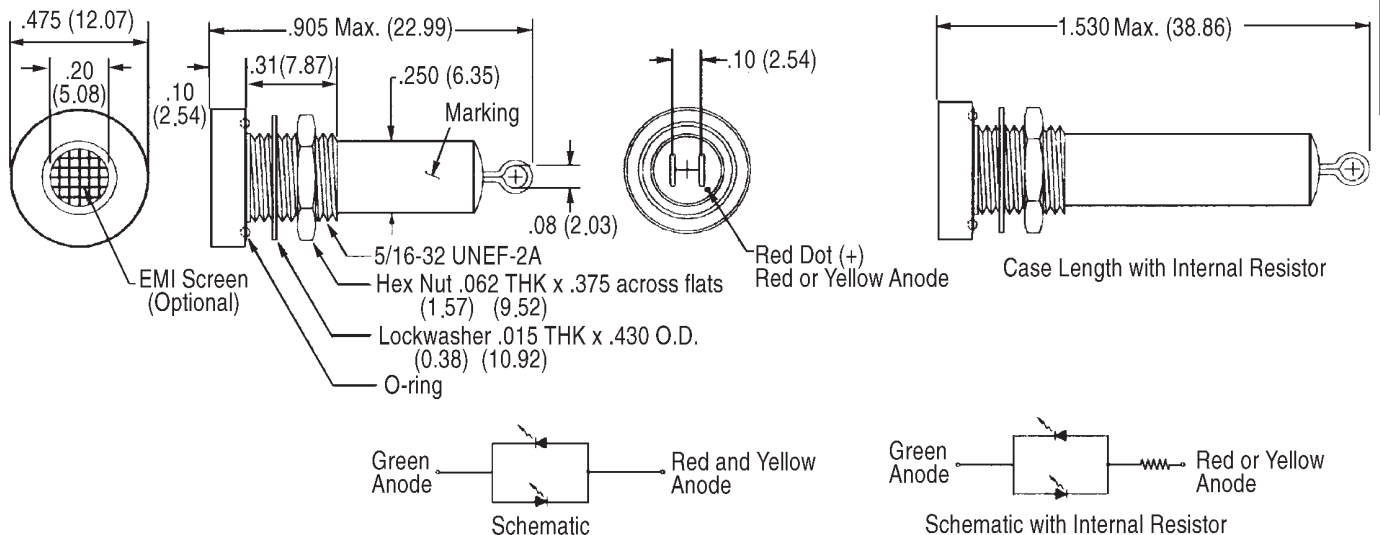
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NOTE:

Dim. in () are mm. Tolerances: Decimals: $\pm .010$ (0,25) Fractions: $\pm 1/64$ Mounting Torque: 5-7 in. lbs.