Miniature BITE Lites LED Indicator

ML 1600/ML 1610

FEATURES

- Performs in Severe Environments
- Low Power Use
- Long Life
- High Efficiency
- High Luminosity
- Rugged Construction
- Readily Mounted on Panel

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

MECHANICAL SPECIFICATIONS

Case: black anodized aluminum.

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

Weight: 1.5 grams with hardware.

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

ML 1610.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range: -55°C to +100°C **Vibration**: .06" D.A. or 20 G 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. **Moisture Resistance** (*Humidity*): MIL STD 202, Method 106. **Altitude**: 100,000 ft., MIL STD 202, Method 105, Test Condition D. **Life**: Operational 6 x 10⁶ hours. min. MTBF @ 25°C and max.

I, steady state.

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

ELECTRO-OPTICAL CHARACTERISTIC SPECIFICATIONS Absolute Maximum Ratings				
Color		Red	Yellow	Green
Forward Voltage (VDC)		1.9	2.0	2.1
Peak Forward Current (mA)		90	60	90
DC Forward Current (mA)*		30	20	30
Reverse Voltage (VDC) (I _R =100µA)		5	5	5
Power Dissipation (mW)		135	85	135
Luminous Intensity (mcd) typical	Non Diffused	60	50	70
@ I _f =10 mA	Diffused	7.0	8.0	5.2
Dominant Wave Length (nm) typical		626	585	569
Viewing Angle (2 Ø 1/2) typical	Non Diffused	35°	35°	35°
	Diffused	60°	60°	60°
Operating Temperature (°C)		-55 to +100	-55 to +1	100 -20 to +100
Storage Temperature (°C)		-55 to +100	-55 to +	100 -55 to +100
Lead Soldering Temperature		200°C for 5 seconds		

^{*} For red and green, derate linearly from 50°C @ 0.5 mA/°C. For yellow, derate linearly from 50°C @ 0.2 mA/°C

ML 1610 - Y - D - LT - S () ORDERING INFORMATION When ordering, show basic part number first, followed by the color of the LED, lens type and terminal style. If this is a special Basic Model LED Terminal **Factory Modification** Lens part, factory's modification number will be added at the end of Number Color Style Number if Special Type the ordering number. ML1600 (R) Red (ND) Non-diffused ST Straight Lead S.+ ID No. (Y) Yellow (w/o "O" Ring) (D) Diffused LT Solder Loop Example: A basic model with an o-ring panel seal, a yellow LED, (G) Green a diffused lens, and loop terminals would be ML1610-Y-D-LT. ML1610 (with "O" Ring)

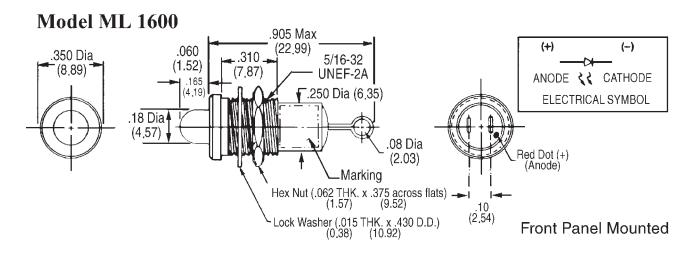
communications Electrodynamics, Inc.

Miniature BITE Lites LED Indicator

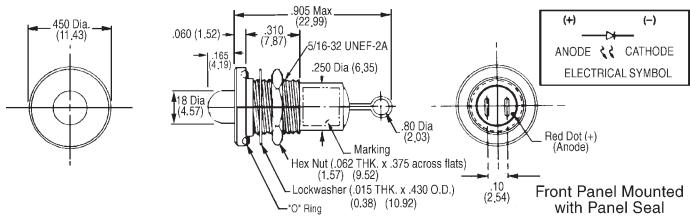
ML 1600/ML 1610







Model ML 1610



NOTE:

Dimensions. in () are mm.

Tolerances: Decimals: \pm .010 (0,25)

Fractions: ± 1/64

Mounting Torque: 5-7 in. lbs.