

Dimmable Infrared Secure LED Indicator

MLD 1619



communications
Electrodynamics, Inc.

Developed for use as a function indicator, this solid state indicator provides reduced infrared emissions and variable dimming per CECOM statement of work. It is panel mountable with solderable leads and includes hardware. It can also be produced for non-mil applications.

Features

- Designed to meet CECOM secure lighting statement of work
- Dimmable to 0.05 foot-lamberts
- Optional EMI Protection Screen
- Colors: Red, Yellow, & Green
- Panel Mount Seal

Environmental Specifications

Vibration: 2 kHz, MIL-STD-202, Method 204, Test Condition D
Shock: 50 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 hours min. MTBF@25C°
Salt Spray: MIL-STD-202, Method 101, Test Condition B.

Mechanical Specifications

Case: Aluminum, conductive clear chromate
Cap: Aluminum, black anodized
Mounting: Front Panel by 5/16"-32 nut and lockwasher
Seal: Environmentally sealed with front panel PTFE ring seal and internal o-ring seal.
Terminal Style: Straight tin lead

ELECTRO-OPTICAL CHARACTERISTIC SPECIFICATIONS Absolute Maximum Ratings

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Color	Red	Yellow	Green
Forward Voltage (VDC)	1.9	2.1	2.2
Peak Forward Current (mA)	90	60	90
DC Forward Current (mA) *	30	20	30
Reverse Voltage (VDC) @ I _r = 100 μA	5	5	5
Power Dissipation (mW)	135	85	135
Luminous Intensity (mcd) typical @ I _f = 20 mA DC	2.5	4.0	5.0
Dominant Wave Length (nm) typical	626	585	569
Viewing Angle (2 Ø ^{1/2}) typical	32°	32°	32°
Operating Temperature (°C)	-55 to +100	-55 to +100	-20 to +100
Storage Temperature (°C)	-55 to +100	-55 to +100	-55 to +100
Lead Soldering Temperature	260 °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

ORDERING INFORMATION

When ordering, show model number first, followed by EMI screen, LED color, lens type and the terminal style desired. 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 an EMI screen, red LED, a non-diffused lens and loop terminals is MLD 1619 E - R - ND - LT

MLD 1619 E - R - ND - LT - S ()

Basic Model Number	EMI Screen	Color LED.	Lens Type	Terminal Style	Factory Modification Number if Special
MLD 1619	() None E Screen	R Red Y Yellow G Green	ND Non-Diffused D Diffused	ST Straight Lead LT Solder Loop	S.+ ID No.

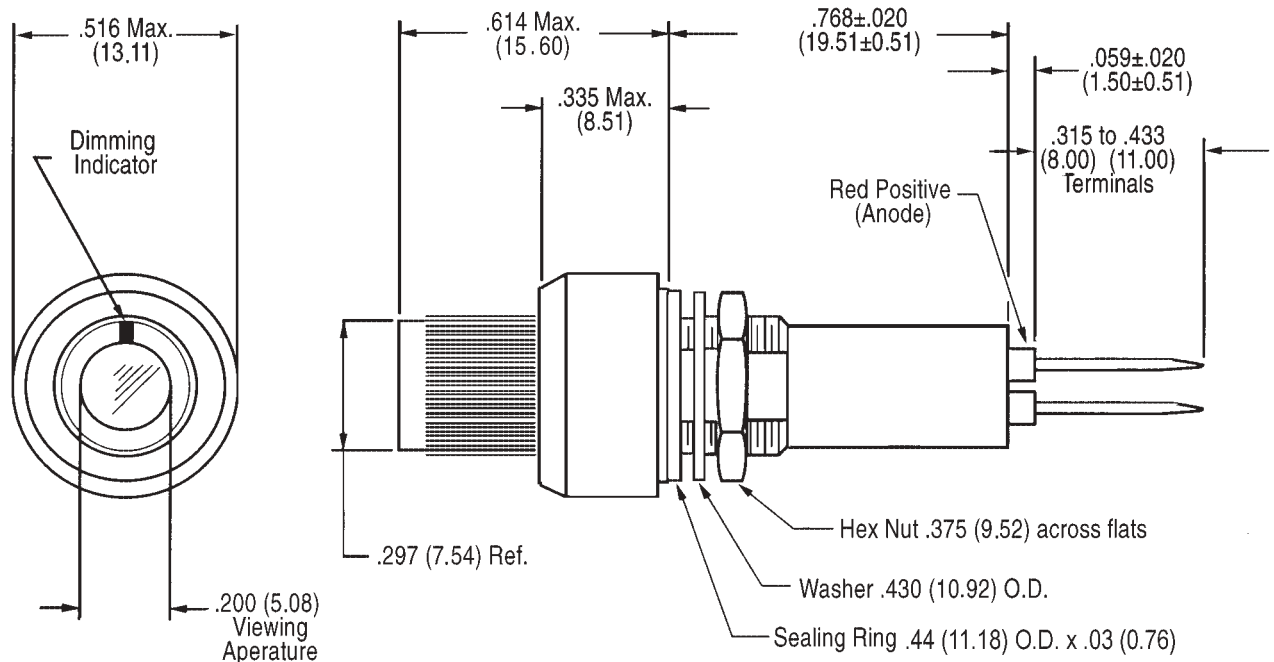
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Model MLD 1619



LED INDICATORS

Mounting Hole Detail

NOTE:

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

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