

Three Lead Bicolor Panel Mount LED Indicator

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
- Internal Resistor Available

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 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.

Moisture Resistance: MIL STD 202, Method 106.

Barometric Pressure (Reduced): 100,000 ft., MIL STD 202, Method 105, Test Condition D.

Reliability: 3 x10⁶ hrs. 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

Colors	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		Non-diffused	
@ I _F = 20 mA DC	500	140	NA	NA
	Diffused		Diffused	
	200	60	150	60
Dominant Wave Length (nm) typical	640	568	588	568
Viewing Angle (2 Ø ^{1/2}) typical	Non-diffused		Non-diffused	
	Diffused		Diffused	
	30°		30°	
	60°		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 sec.			

① Typical pulsing values: t_p ≤ 10 μsec, Duty cycle = 10% ② Derate 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. Consult 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 ML1623 E-SY/SG-D-LT - () - S ()

Basic Model Number	EMI Screen	LED. Color	Lens Type	Terminal Style	Internal Resistor	Standard Factory Options are designated by "Sxxx"
ML1623	() None	SR/SG Red/Green	ND Non-Diffused	ST Straight Lead	() No Resistor	
(w/o O-ring)	E Screen	SY/SG Yellow/Green	D Diffused	LT Solder Loop	5 5V	
					14 14V	
ML1633					24 24V	
(w/ o-ring)					28 28V	

Three Lead Bicolor Panel Mount LED Indicator

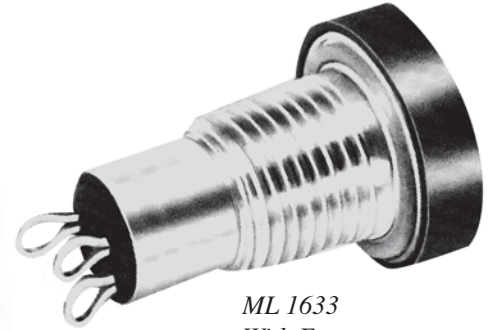
ML1623-S/ML1633-S



communications
Electrodynamics, Inc.

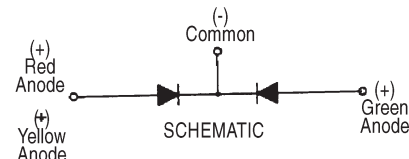
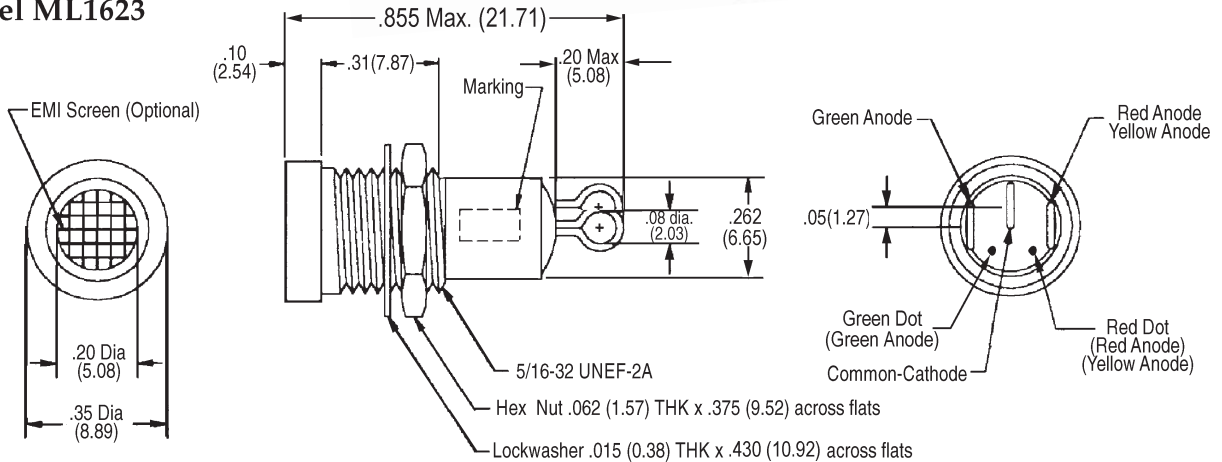


ML 1623



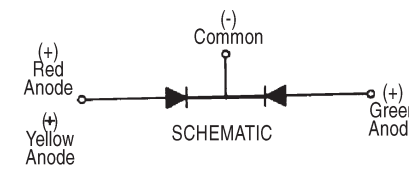
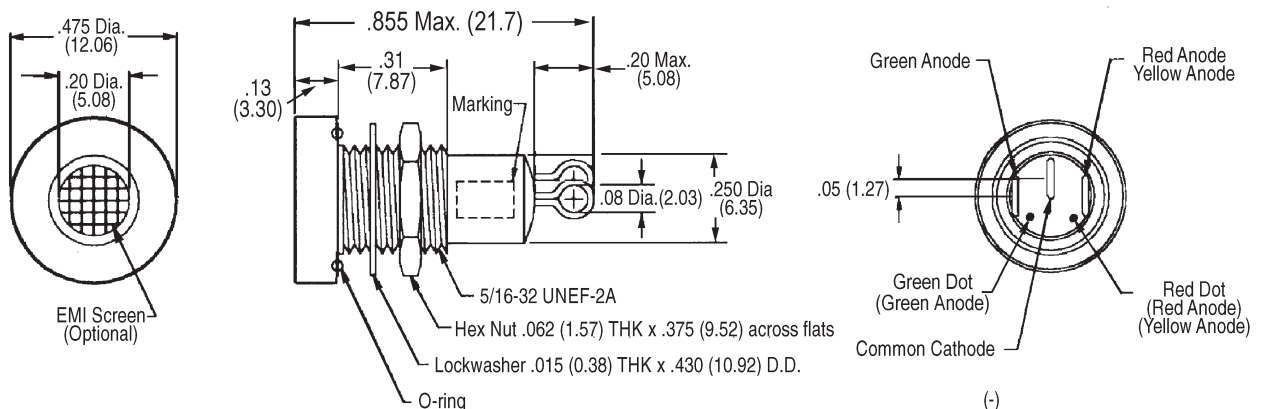
ML 1633
With Front
Panel O-Ring

Model ML1623



Model ML1633

With Front Panel O-Ring



NOTE:

Dimensions in () are mm. Tolerances: Decimals: ± .010 (0,25) Fractions: ± 1/64 Mounting Torque: 5-7 in. lbs.

L-3 Communications / ElectroDynamics • 1200 Hicks Road • Rolling Meadows, IL 60008 • Tel: 847.660-1750 • Fax: 847.660-1751 • email: edi.info@L-3com.com • www.L-3com.com/edi