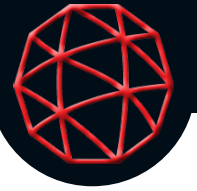


# LED INDICATOR MIL-SPEC



## ML1640C Commercial Series

ML1640C



Developed for use as a function indicator, this solid-state lamp with plain or filtered type lens, designed for sunlight viewing.

It is panel mountable with solderable leads and includes hardware. Available with anti-reflection lens coating.

### FEATURES

- Environmentally sealed
- Panel mount
- Optional EMI protection screen
- Colors: red, yellow & green

### MECHANICAL SPECIFICATIONS

Bezel: Aluminum, black anodized

Case: Aluminum, clear chromate

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

Seal: Environmentally sealed with front panel PTFE ring seal

### ELECTRO-OPTICAL CHARACTERISTIC SPECIFICATIONS

Absolute Maximum Ratings @Temp = 25°C			
Color	Red	Yellow	Green
Forward Voltage (VDC) Typical $I_F$ @ 20 mA	1.9	2.1	2.2
Peak Forward Current (mA)	90	60	90
DC Forward Current (mA)	30	20	30
Reverse Voltage (VDC) @ $I_R = 100 \mu A$	5	5	5
Power Dissipation (mW)	135 Å	85 Å	135 Å
Luminous Intensity (mcd) typical	See chart	See chart	See chart
Dominant Wave Length (nm) typical	626	585	571
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		

Notes: Å Derate at 1.8 mW/°C above +25°C Ambient  
 Å Derate at 1.6 mW/°C above +50°C Ambient

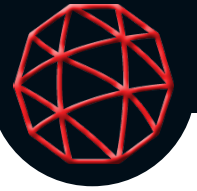
Model	Type of Lens	Anti Reflect Coating	EMI Screen	Outline Figure
ML1641C	Plano Convex	No	Optional	1
ML1644C	Plano Convex	No	Optional	2
ML1642C	Flat 30° View, Angle	Optional	Optional	3
ML1645C	Flat 30° View, Angle	Optional	Optional	4

Model	Color	
ML1641C ML1644C	Red	15 mcd @ 10 mA
	Yellow	12 mcd @ 10 mA
	Green	12 mcd @ 20 mA
ML1642C ML1645C	Red	10 mcd @ 20 mA
	Yellow	5 mcd @ 15 mA
	Green	10 mcd @ 20 mA

Luminous characteristics and/or exact operational parameters will vary depending on the model configuration. Please contact the L3Harris ElectroDynamics, Inc. Sales Department for model specification sheets.

This page cleared by DoD/OSR for public release under 12-5-1675 on 04/23/2012.

# LED INDICATOR MIL-SPEC



## ORDERING INFORMATION

When ordering, show model number first, then, EMI screen, coated lens, LED color and the type of lead desired. If this is a special part, a factory assigned modification number will be added at the end of the ordering number. Consult the factory for special configurations.

Example: Basic model with red LED, EMI screen, uncoated lens, and straight lead would be model ML1642CE-U-R-ST.

ML1642CE-U-R-ST				
Basic Model Number	EMI Screen	Lens Coating	LED Color	Terminal Style
ML1640C	( ) None	U Uncoated	R Red	ST Straight Leads
	E Screen	C Anti-reflection Coating	Y Yellow	LT Loop Terminals
			G Green	

\* ML1641C and ML1644C do not have the Antireflection Coating option.

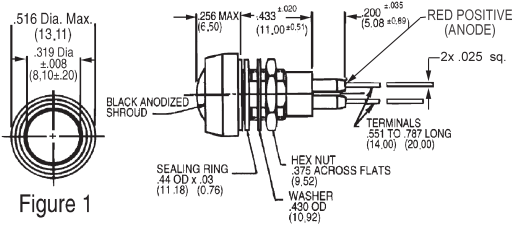


Figure 1

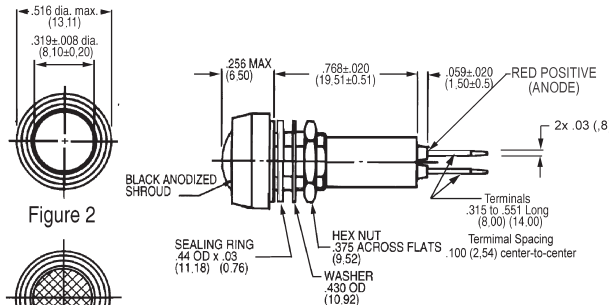
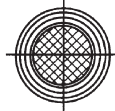


Figure 2



WITH EMI SCREEN

Figure 2a

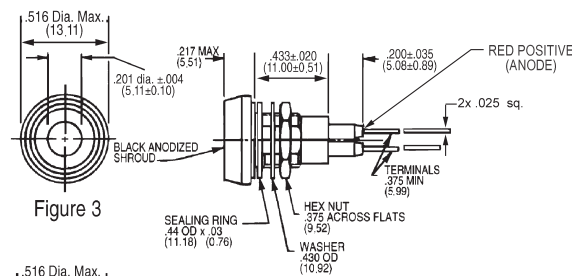


Figure 3

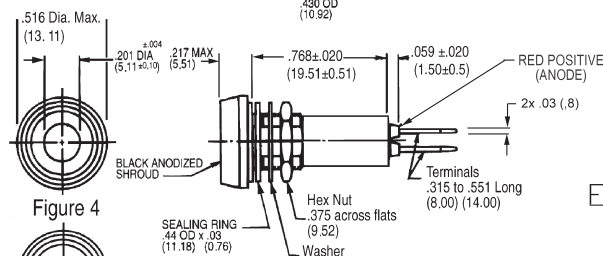
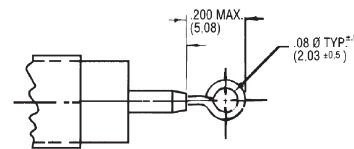


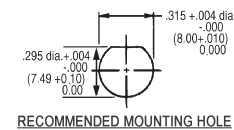
Figure 4



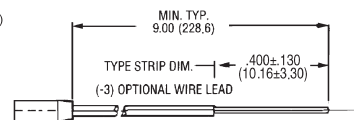
WITH EMI SCREEN  
Figure 4a



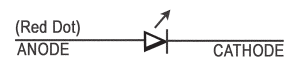
(-2) OPTIONAL LOOP TERMINAL



RECOMMENDED MOUNTING HOLE



(-3) OPTIONAL WIRE LEAD



Schematic

### ML1640C Series

NOTE: Dimensions in ( ) are mm. Tolerances: Decimals: ± .010 (0.25)  
Fractions: ± 1/64 Mounting Torque: 5-7 in. lbs.

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