



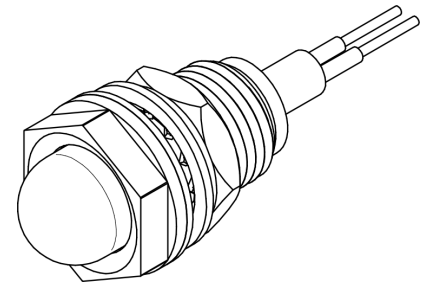
# ML 5113 PANEL INDICATORS

## FEATURES

- > Wide viewing angles
- > Multiple colors available
- > High intensity LED
- > Sealed to IP68 Standard
- > Voltage options (*See Chart*)
- > Industrial/external Applications
- > Panel-suitable mounting
- > Internal reverse protection diode fitted in all models
- > Internal potting for protection
- > Suitable for harsh environmental applications
- > PTFE panel seal

Colors	Color Code
Red	R
Yellow	Y
Green	G
Blue	B
Cool White	C

Customized versions available upon request.



The ML 5113 Panel Indicators are rugged durable LED indicators that are suitable for panel mounting. These indicators are IP68 sealed for external functionality and feature internal potting for vibration control and durability to withstand industrial applications. IP68 for continuous immersion up to 10m for marine applications. Indicators meet specific military specifications listed in data sheet. These indicators come in a variety of colors. Indicators used in a variety of applications. Wires come in short and extended length applications. Refer to the product specifications for additional details.

## PROPERTIES

### Material

Housing	Black Anodized Aluminum (Marine grade 40 microns)						
Hex Nut	Nickel Plated Brass						
Lock Washer	Spring Steel						
Terminal	Wire Leads <table border="1" data-bbox="479 1381 740 1493"> <thead> <tr> <th colspan="2">Wire Length (Inches)</th> </tr> </thead> <tbody> <tr> <td>WL</td> <td>6</td> </tr> <tr> <td>WX</td> <td>39</td> </tr> </tbody> </table>	Wire Length (Inches)		WL	6	WX	39
Wire Length (Inches)							
WL	6						
WX	39						
Mounting Hole	Ø 0.335						
Min. Panel Thickness	0.06						
Weight	10 grams						
Operational Temp.	-40°C to 75°C						
Storage Temp.	-40°C to 100°C						

Color Diffused Lens

## 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	100G'S MIL-STD-202, Method 213, Test Condition I
Moisture Resistance (Humidity)	MIL-STD-202, Method 106
Barometric Pressure (Reduced)	100,000 ft. MIL-STD-202, Method 105, Test Condition D
Salt Atmosphere	MIL-STD-202, Method 101, Test Condition B

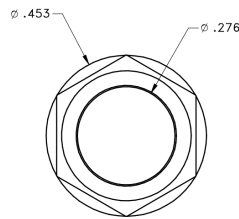
## ELECTRO-OPTICAL SPECIFICATIONS

CHARACTERISTICS		ML5113-( )-D-( )-( )					
	Voltage (Vdc) Typical	Current (mA) Typical	Red	Yellow	Green	Blue	Cool White
Typical Luminous Intensity (mcd)	2.0 – 3.4	20	458	440	2157	452	1359
Typical Wavelength (λp)	(2.0 – 3.4)	(20)	625	590	520	470	SEE BELOW
<b>TYPICAL EMISSION COOL WHITE</b>							
	X	0.275	0.280	0.290			
	Y	0.270	0.280	0.300			
Max. Power Dissipation	75 mW						

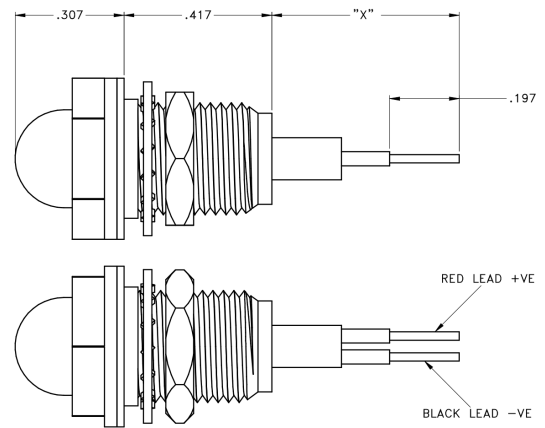
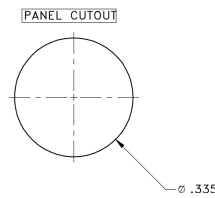
## ELECTRICAL SPECIFICATIONS

Typical Voltage (Vdc) @ 20mA
(2.0 - 3.4)

## DIMENSIONS (INCHES)



Wire Length/Termination (Inches)	
WL	6
WX	39



## ML 5113 ORDERING INFORMATION

FAMILY SERIES – COLOR – D – TERMINATION – VOLTAGE ML5113-( )-D-( )-( )		
Model No.	Color	Voltage
ML5113-R-D-WL-20	Red	20
ML5113-Y-D-WL-20	Yellow	20
ML5113-G-D-WL-20	Green	20
ML5113-B-D-WL-20	Blue	20
ML5113-C-D-WL-20	Cool White	20
ML5113-R-D-WX-20	Red	20
ML5113-Y-D-WX-20	Yellow	20
ML5113-G-D-WX-20	Green	20
ML5113-B-D-WX-20	Blue	20
ML5113-C-D-WX-20	Cool White	20

LABELING INFORMATION	
Laser etch case	ML5113
Laser etch date code	YYWW
<b>Label ESD BAG:</b>	<b>Example:</b>
Cage code	10236
Model number	ML5113-R-D-WL-20
Date code (YYWW)	2032

### ML 5113 Panel Indicators

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