

# .312" MOUNT PANEL LIGHTS



Data Display Products®

## 50 Series

- Mounting Hardware Provided - For Detailed LED Data, See Discrete Section, MODEL 200

1 Model	Wires
51	<b>W</b>
53 <sup>[1]</sup>	(optional)
54	
56	
561	
564	

### TO ORDER, FOLLOW THE EXAMPLE:

Select one **BOLD** component from each numbered category in the tables below.

1 Model	2 LED	3 Voltage	4 Lens Diffusion	5 Lens Color	6 Bezel Color
54	-ALP	2	-C	A	9

→ Part Number **54-ALP2-CA9**

MEDIUM INTENSITY - TINTED ENCAPSULATION					
2 LED	Color	λpk (nm)	Iv <sup>[2]</sup> (mcd)	Viewing Angle	V/C Table <sup>[3]</sup>
-BCR	RED	635	120	35	I
-BCA	AMB	583	100	35	I
-BCG	GRN	565	80	24	I

Voltage/Current	
Design Vf/If	Max Vf/If
<b>V/C Table I</b>	
5V/27mA	5.5V/40mA
12V/27mA	14V/35mA
15V/24mA	16.5V/28mA
24V/17mA	26V/20mA
28V/16.5mA	30V/18mA
48V/15mA	50V/16mA
60V/9mA	65V/10mA
120VAC/3.5mA	130VAC/4mA

3 Voltage <sup>[4]</sup>
<b>2</b>
5H
12H
15H
24H
28H
48H
60H
120 <sup>[5]</sup>

HIGH INTENSITY - WATERCLEAR ENCAPSULATION					
LED	Color	λpk (nm)	Iv <sup>[2]</sup> (mcd)	Viewing Angle	V/C Table <sup>[3]</sup>
-NWR	RED	634	5300	30	I
-NWO	ORG	605	2000	30	I
-NWA	AMB	592	5300	30	I
-NWG	GRN	520	2400	45	II
-NWB	BLU	465	700	45	II
-NWW <sup>[7]</sup>	WHT	[9]	1560	50	II
-NKR	RED	634	6900	15	I
-NKO	ORG	605	8000	15	I
-NKA	AMB	592	6900	15	I
-NKG	GRN	520	10000	15	II
-NKB	BLU	465	3000	15	II
-NKW <sup>[7]</sup>	WHT	[9]	5600	20	II

Voltage/Current	
Design Vf/If	Max Vf/If
<b>V/C Table II</b>	
5V/15mA	6V/26mA
12V/15mA	14V/20mA
15V/15mA	16.5V/18mA
24V/15mA	26V/18mA
28V/15mA	30V/17mA
48V/9.5mA	50V/10mA
60V/7mA	65V/8mA
120VAC/3.5mA	130VAC/4mA

4 Lens Diffusion
<b>-C</b>
Clear
<b>-N</b>
Diffused

5 Lens Color	
<b>R</b> Red	<b>B</b> Blue
<b>A</b> Amber	<b>W</b> Water Clear
<b>Y</b> Yellow	
<b>G</b> Green	<b>-S</b> Smoke <sup>[8]</sup>

SPECIALTY LEDs						
LED	Color	λpk (nm)	Iv <sup>[2]</sup> (mcd)	Viewing Angle	V/C Table <sup>[3]</sup>	Description
-RLP <sup>[6]</sup>	RED	635	2.3	50	[3]	Low Power
-ALP <sup>[6]</sup>	AMB	583	2.1	50	[3]	Low Power
-GLP <sup>[6]</sup>	GRN	565	2.3	50	[3]	Low Power
-LRG <sup>[7]</sup>	RED/GRN	660/565	90/40	60	I	Bi-Color, Red Cathode
-RAG <sup>[7]</sup>	RED/AMB/GRN	630/565	6/6/6	60	I	Tri-Color, Common Cathode
-GAR <sup>[7]</sup>	GRN/AMB/RED	635/565	5/5/5	50	I	Tri-Color, Common Anode

6 Bezel Color
<b>0</b>
Black
<b>9</b>
White

[1] Model 53 is available with Clear (-C) Lens only.

[2] Iv = typical luminous intensity @ If = 20mA (Ta = 25°C). Iv is measured without lenses. For Low Power LEDs, If = 2mA.

[3] See Voltage/Current table for design specifications. Design current for low power LEDs = 2mA.

[4] Ta = 25°C. Voltage 2 indicates external resistor required. Voltages 5H through 60H are VDC.

[5] For AC operation, insert D after Voltage (e.g. 24HD), D indicates built-in rectifier; not required for 15H or less, or 120VAC. DC operation not available for 120V. Bi-Color and Tri-Color not available in AC voltages.

[6] Select high intensity LEDs only.

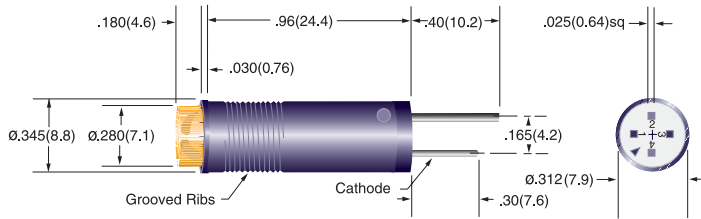
[7] Omit H when selecting a voltage (e.g. 51-RLP12-CW0).

[8] Select -CW or -NW lens only. -RAG wire leads: green anode/black cathode/red anode. -GAR wire leads: green cathode/black anode/red cathode. Common lead is the first lead clockwise from reference mark on header. Tri-Color 5 or 12 volt, omit H in part number.

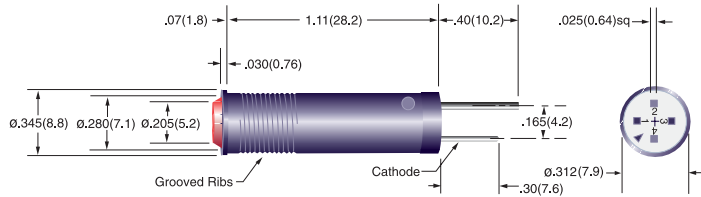
[9] Omit Lens Diffusion when selecting smoked lens (e.g. 51-NWA12H-S0).

[9] White is identified by one of four CIE coordinates x:0.290/y:0.260, x:0.290/y:0.305, x:0.330/y:0.365, x:0.330/y:0.320

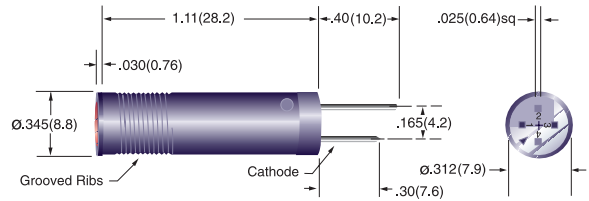
### 51



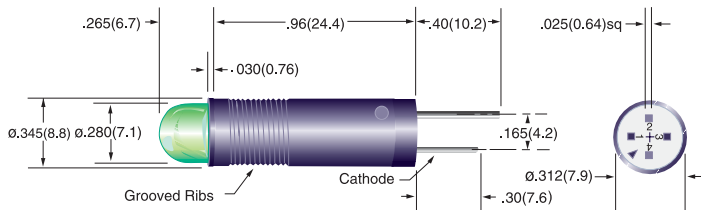
### 53



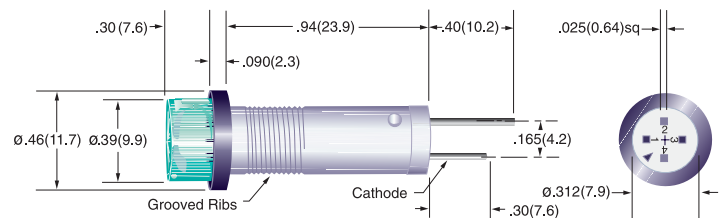
### 54 (flush lens)



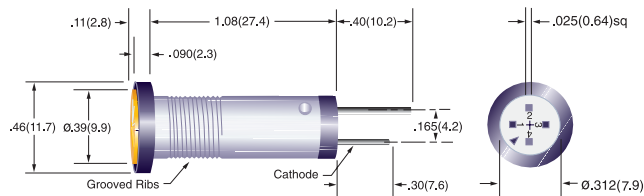
### 56



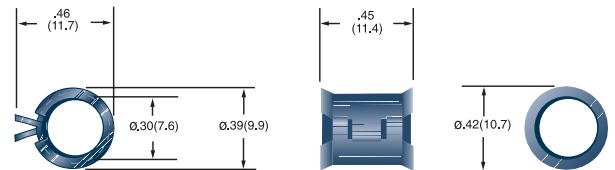
### 561



### 564



### TC5 & NW5 Mounting Hardware



#### Standard Wire Leads:

6.0" total length(nominal)/.50" stripped (nominal), red anode/black cathode, 24 AWG TPB UL1061 insulation. Contact factory for other lengths, gauges and colors.

#### All dimensions are in inches (mm)

Tolerances: .xx"(.x)  $\pm .025$ "(.63) / .xxx"(.xx)  $\pm .010$ "(.25)  
Specifications are subject to change without notice.