



Data Display Products®

.290" MOUNT PANEL LIGHTS

90 Series, Single-Chip

· Mounting Hardware Provided

· For Detailed LED Data, See Discrete Section, MODEL 200

Model	Wires		LED					Voltage ^[6]	Lens		Bezel Color	
			Color	λ _{pk} (nm)	I _v ^[3] (mcd)	Tint ^[4]	V ^[5]		Diffu- sion	Color		
C ^[1]	905 ^[2]	W	-ER	RED	660	30	D	I	2	-C	R	0
Optional	91	Optional	-ECR	RED	660	160	C	I	5H	Clear	Red	Black
	94		-BR	RED	635	14	D	I	12H			
	96		-BCR	RED	635	120	C	I	15H	-N	A	9
	961		-NWR	RED	635	900	W	I	24H	Diffused	Amber	White
	964		-R6K	RED	635	6,500	W	I	28H			
			-NWO	ORG	609	1,300	W	I	48H		Y	
			-O8K	ORG	609	8,000	W	I	60H		Yellow	
			-EA	ORG	605	24	D	I	120 ^[9]			
			-ECA	ORG	605	90	C	I			G	
			-NWA	AMB	592	1,300	W	I			Green	
			-A9K	AMB	592	9,300	W	I				
			-BA	AMB	583	16	D	I			B	
			-BCA	AMB	583	100	C	I			Blue	
			-EAY	AMB	580	24	D	I				
			-ECAY	AMB	580	90	C	I			W	
			-EY	YEL	570	45	D	I			Water	
			-ECY	YEL	570	160	C	I			Clear	
			-BG	GRN	565	10	D	I				
			-BCG	GRN	565	140	C	I				
			-EG	GRN	555	12	D	I			S ^[10]	
			-ECG	GRN	555	80	C	I			Smoke	
			-NWG	GRN	520	1,200	W	II				
			-G5K	GRN	520	5,000	W	II				
			-NWB	BLU	465	325	W	II				
			-B1K	BLU	465	1,000	W	II				
Specialty LEDs									Description			
			-RLP ^[7]	RED	635	2.3	D	[5]	Low Power			
			-ALP ^[7]	AMB	583	2.1	D	[5]	Low Power			
			-GLP ^[7]	GRN	565	2.3	D	[5]	Low Power			
			-LRG ^[8]	R/G	660/565	70/32	D	I	Bi-Color			

Voltage/Current	
Design V _f /I _f	Max V _f /I _f
Table I	
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

Table II	
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

- [1] The C option specifies a pin length = .20" for panel lights mounted in the PS90 or PS90T socket (pg. 61). Mounting hardware is included with the socket. Do not select the W option. C and standard pins are not solderable.
- [2] Model 905 has no lens. Omit Lens Diffusion and Color (e.g. 905-BG5H-0).
- [3] I_v = typical luminous intensity @ I_f = 20mA (T_a = 25°C). I_v is measured without lenses. For Low Power LEDs, I_f = 2mA.
- [4] D = Diffused, C = Clear Tinted, W = Water Clear.
- [5] See Voltage/Current table for design specifications. Design current for low power LEDs = 2mA.
- [6] T_a = 25°C. Voltage "2" indicates external resistor required. Voltages 5H through 60H are VDC. 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 not available in AC voltages.
- [7] Omit H when selecting a voltage (e.g. 91-RLP12-CWO).
- [8] Select -CW or -NW Lens only.
- [9] Select LEDs with mcd ≥ 325.
- [10] Omit Lens Diffusion when selecting smoked lens (e.g. 91-NWG24H-S0).

To Order:
Example:

Select one **BOLD** component from each SHADED column in the table except as noted.
Part Number 94-LRG12H-CWO:

Model	LED	Voltage	Lens		Bezel Color
			Diffusion	Color	
94	-LRG	12H	-C	W	0

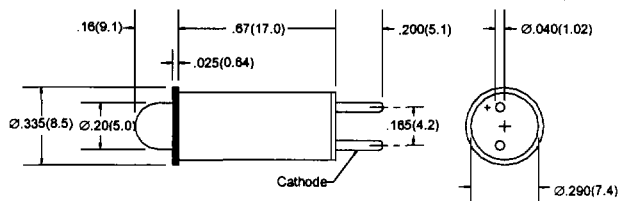
Continued...



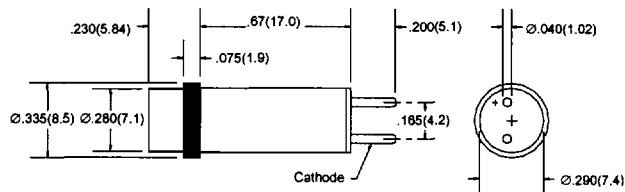
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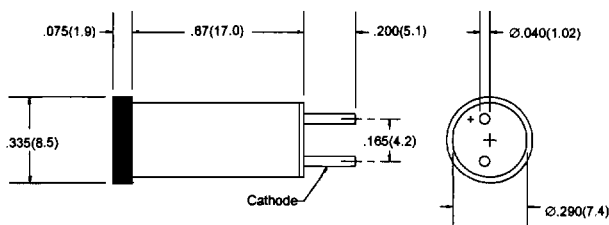
90 Series, Single-Chip



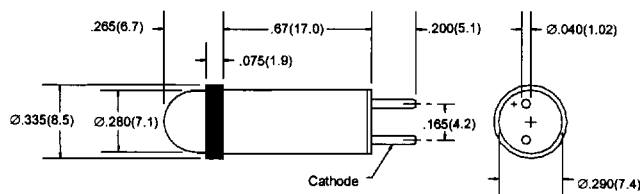
905 (no lens)



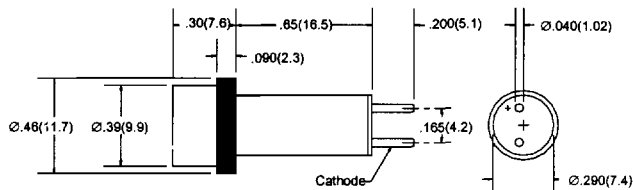
91



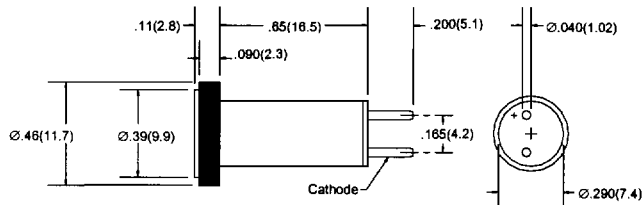
94 (flush lens)



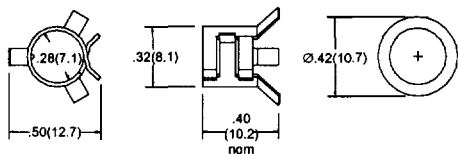
96



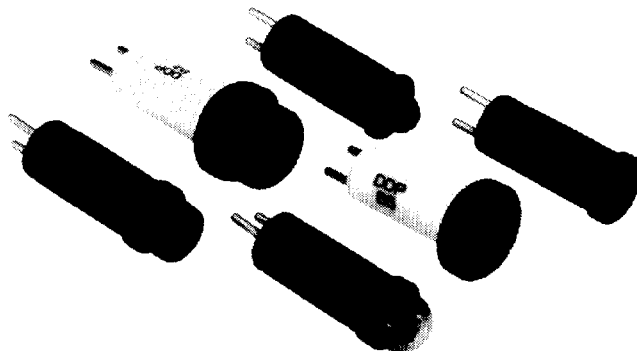
961



964



TC9 & NW9 Mounting Hardware
See note [1]



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) ±.025"(.63) / .xxx"(.xx) ±.010"(.25)
Specifications are subject to change without notice.