

Incandescent Replacement Products

Contents By Model and Size

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516	1	T-3 1/4	LED
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532	2	T-1 3/4	LED
159	2	T-3 1/4	LED
197	3	T-3 1/4	LED
160	3	S6	LED
460	3	S8	LED

PANEL MOUNT AND PCB PRODUCTS

Model	Page	Size	Description
102-S	4	1/4	Incandescent or LED
102-SI	4	5/16	Incandescent or LED
109	4	13/64	Incandescent or LED
150	4	5/32	LED
211	5	PCB	LED
240	5	1/4	LED
252	5	5/16	LED
500	6	1/2	LED
502	6	19/64	Incandescent or LED
855-S	6	3/8	Incandescent or LED
855-SI	6	27/64	Incandescent or LED

DISCRETE LED PRODUCTS

Model	Page	Size	Description
SL903	7	T-1	Water Clear LED
SL905	7	T-1 3/4	Water Clear LED
SL903	8	T-1	Diffused LED
SL905	8	T-1 3/4	Diffused LED
SL903	9	T-1	Ultra Bright
SL905	9	T-1 3/4	Ultra Bright



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Incandescent Replacement Products

Cross Reference Guide

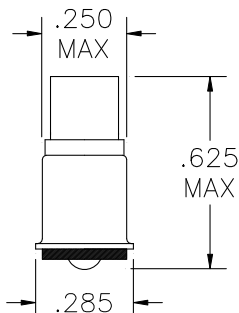
Lamp Type	Base Type	Designed Voltage	Sloan Model#	Page No.	Lamp Type	Base Type	Designed Voltage	Sloan Model#	Page No.
11	Sub-Miniature Wedge	2.5	513	1	385	Midget Flange	28	510	1
13	Miniature Screw	3.7	159	2	387	Midget Flange	28	510	1
14	Miniature Screw	2.5	159	2	394	Midget Flange	12	510	1
17	Sub-Miniature Wedge	28	513	1	399	Midget Screw	28	532	2
18	Sub-Miniature Wedge	14	513	1	400	Wedge Base	28	516	1
24MB	Miniature Bayonet	24	197	3	432	Miniature Screw	18	159	2
27	Miniature Screw	5	159	2	444	Wedge Base	6.3	516	1
28MB	Miniature Bayonet	28	197	3	447	Wedge Base	6.3	516	1
31	Miniature Screw	6.1	159	2	459	Midget Flange	22	510	1
37	Sub-Miniature Wedge	14	513	1	464	Wedge Base	28	516	1
40	Miniature Screw	6.3	159	2	509K	Miniature Screw	24	159	2
44	Miniature Bayonet	6.3	197	3	555	Wedge Base	6.3	516	1
46	Miniature Screw	6.3	159	2	585	Wedge Base	28	516	1
47	Miniature Bayonet	6.3	197	3	655	Wedge Base	28	516	1
48	Miniature Screw	2	159	2	656	Wedge Base	28	516	1
50	Miniature Screw	7.5	159	2	657	Wedge Base	28	516	1
52	Miniature Screw	14.4	159	2	658	Wedge Base	14	516	1
53	Miniature Bayonet	14.4	197	3	682	Sub-Midget Flange	5	311	2
56	Sub-Miniature Wedge	5	513	1	685	Sub-Midget Flange	5	311	2
60RB	Miniature Bayonet	60	197	3	714	Sub-Midget Flange	5	311	2
73	Sub-Miniature Wedge	14	513	1	718	Sub-Midget Flange	5	311	2
74	Sub-Miniature Wedge	14	513	1	740	Wedge Base	5	516	1
79	Sub-Miniature Wedge	6	513	1	756	Miniature Bayonet	14	197	3
84	Sub-Miniature Wedge	6.3	513	1	757	Miniature Bayonet	28	197	3
85	Sub-Miniature Wedge	28	513	1	758	Wedge Base	5	516	1
86	Sub-Miniature Wedge	6.3	513	1	947	Wedge Base	9.84	516	1
120MB	Miniature Bayonet	120	197	3	1099	Sub-Midget Flange	12	311	2
124	Wedge Base	14	516	1	1445	Miniature Bayonet	14.4	197	3
147	Wedge Base	7	516	1	1446	Miniature Screw	12	159	2
152	Wedge Base	28	516	1	1447	Miniature Screw	18	159	2
158	Wedge Base	14	516	1	1449	Miniature Screw	14	159	2
159	Wedge Base	6.3	516	1	1450	Miniature Bayonet	24	197	3
161	Wedge Base	14	516	1	1495	Miniature Bayonet	28	197	3
168	Wedge Base	14	516	1	1768	Midget Screw	6	532	2
184	Wedge Base	14.4	516	1	1775	Midget Screw	6.3	532	2
190	Wedge Base	7	516	1	1813	Miniature Bayonet	14.4	197	3
192	Wedge Base	13	516	1	1815	Miniature Bayonet	14	197	3
193	Wedge Base	14	516	1	1816	Miniature Bayonet	13	197	3
194	Miniature Bayonet	14	516	3	3-501	Wedge Base	12	516	1
222	Miniature Screw	2.25	159	2	3-504	Wedge Base	12	516	1
245	Miniature Screw	2.5	159	2	3-505	Wedge Base	24	516	1
256	Miniature Bayonet	14	197	3	3-507	Wedge Base	24	516	1
259	Wedge Base	6.3	516	1	1818	Miniature Bayonet	24	197	3
280	Wedge Base	10	516	1	1819	Miniature Bayonet	28	197	3
285	Wedge Base	5	516	1	1820	Miniature Bayonet	28	197	3
313	Miniature Bayonet	28	197	3	1829	Miniature Bayonet	28	197	3
316	Miniature Bayonet	6	197	3	1850	Miniature Bayonet	5	197	3
327	Midget Flange	28	510	1	1855	Miniature Bayonet	6.3	197	3
328	Midget Flange	6	510	1	1864	Miniature Bayonet	28	197	3
330	Midget Flange	14	510	1	1866	Miniature Bayonet	6.3	197	3
335	Midget Screw	28	532	2	1891	Miniature Bayonet	14	197	3
338	Midget Flange	2.7	510	1	1892	Miniature Bayonet	14.4	197	3
342	Midget Screw	6	532	2	1893	Miniature Bayonet	14	197	3
345	Midget Flange	6	510	1	3002	Sub-Midget Flange	5	311	2
349	Midget Flange	6.3	510	1	3007	Sub-Midget Flange	5	311	2
350	Midget Flange	6.3	510	1	3020	Sub-Midget Flange	5	311	2
356	Miniature Bayonet	28	197	3	3024	Sub-Midget Flange	12	311	2
363	Miniature Bayonet	14	197	3	3044	Sub-Midget Flange	5	311	2
369	Midget Screw	28	532	2	3071	Sub-Midget Flange	5	311	2
370	Midget Flange	18	510	1	3150	Midget Flange	5	510	1
373	Midget Screw	14	532	2	7332	Midget Flange	5	510	1
376	Midget Flange	28	510	1	7333	Midget Flange	5	510	1
377	Midget Flange	6.3	510	1	7335	Midget Flange	5	510	1
378	Midget Screw	6.3	532	2	7341	Midget Flange	28	510	1
380	Midget Flange	6.3	510	1	8362	Midget Screw	14	532	2
381	Midget Flange	6.3	510	1	8369	Midget Screw	28	532	2
382	Midget Flange	14	510	1	8384	Midget Screw	28	532	2
383	Midget Screw	14	532	2	8918	Midget Flange	14	510	1



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MODEL 510



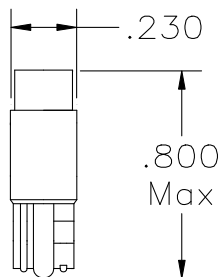
T-1 3/4 MIDGET FLANGE LED

Voltages available range from 2.7 - 28 VDC. Please specify color when ordering. Insert 1 - Red, 2 - Green, 3 - Yellow, 4 - Amber, 5 - Ultra Green, 6 - Ultra Blue, 7 - Pure White where "X" appears below.

<u>Voltage</u>	<u>Model No.</u>
5vdc	510-5X
6vdc	510-6X
6.3vdc	510-603X
12vdc	510-12X
14vdc	510-14X
24vdc	510-24X

Direct replacement for the following incandescent lamps: 327, 328, 330, 338, 345, 349, 350, 370, 376, 377, 380, 381, 382, 385, 387, 394, 459, 3150, 7333, 7335, 7341 and 8918.

MODEL 513



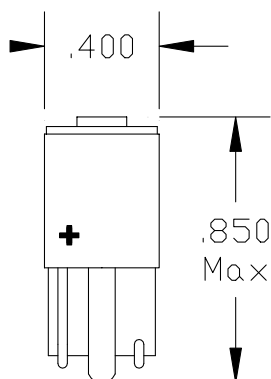
T - 1 3/4 WEDGE BASE LED

Voltages available range from 5 - 28 VDC. Please specify color when ordering. Insert 1 - Red, 2 - Green, 3 - Yellow, 4 - Amber, 5 - Ultra Green, 6 - Ultra Blue or 7 - Pure White where "X" appears below.

<u>Voltage</u>	<u>Model No.</u>
5vdc	513-5X
6.3vdc	513-603X
14vdc	513-14X
28vdc	513-28X

Direct replacement for the following incandescent lamps: 11, 17, 18, 37, 56, 73, 74, 79, 84, 85 and 86.

MODEL 516



T - 3 1/4 WEDGE BASE LED

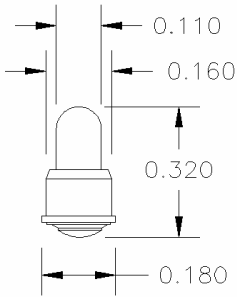
Voltages available from 5 to 28VDC. This unit contains an Ultra Bright 5mm LED in the largest color selection available. Insert 1 - Red, 2 - Green, 3 - Yellow, 4 - Amber, 5 - Ultra Green, 6 - Ultra Blue, 7 - Pure White where "X" appears below.

<u>Voltages</u>	<u>Model No.</u>
5vdc	516-5X
6vdc	516-6X
7vdc	516-7X
12vdc	516-12X
14vdc	516-14X
24vdc	516-24X
28vdc	516-28X

Replaces the following incandescent lamps:
 124, 147, 152, 158, 159, 161, 168, 184, 190, 192-194, 259, 280, 285, 400, 444, 447, 464, 555, 585, 655, 656, 657, 658, 740, 758, 947, 3-501, 3-504, 3-505, 3-507

Unit available in both standard 160 degree viewing angle for switches and wide viewing applications and 30 degree for narrow viewing surfaces that require extra brightness. Please specify when ordering. Example: 516-127D for 12 VDC white LED for narrow ultra bright illumination
 516-127 for 12 VDC white LED for wide bright illumination

MODEL 310



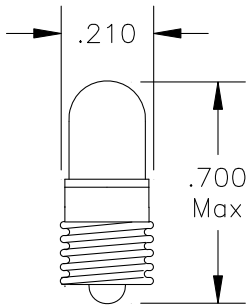
T1 - SUB-MIDGET FLANGE LED

Available in Red, Green, Yellow, Amber, Ultra Bright Green, Ultra Bright Blue and Pure White. Voltages available range from 2 -14 VDC. Please specify color when ordering; Insert 1 - Red 2- Green, 3 - Yellow, 4 - Amber, 5 - Ultra Green, 6 - Ultra Blue, 7 - Pure White where "X" appears

<u>Voltage</u>	<u>Model No</u>	
2vdc*	310-2X	Red, Green, Yellow and Amber Only
3vdc*	310-3X	Ultra Green, Ultra Blue and White Only
5vdc	310-5X	Red, Green, Yellow and Amber Only
12vdc	310-12X	Red, Green, Yellow and Amber Only

Direct replacement for the following incandescent lamps 679, 7229,7230,7231,682,714,718, 6180,7233,7236,7238,7250,8022,8605,32,22,8112, etc. (*External resistor recommended)

MODEL 532



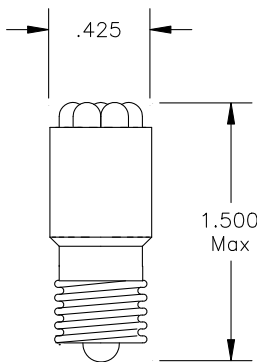
T - 1 3/4 MIDGET SCREW SINGLE CHIP LED

Available in Red, Green, Yellow, Amber, Ultra Bright Green, Ultra Bright Blue and Pure White. Voltages available range from 2 - 28 VDC. Please specify color when ordering. Insert 1 - Red 2 - Green, 3 - Yellow, 4 - Amber, 5 - Ultra Bright Green, 6 - Ultra Bright Blue and 7 - Pure White where "X" appears.

<u>Voltages</u>	<u>Model No.</u>	
2vdc*	32-2X	Red, Green Yellow and Amber only
5vdc	32-5X	
6vdc	32-6X	
14vdc	32-14X	
28vdc	32-28X	

Direct replacement for the following incandescent lamps: 335, 342, 369, 373, 378, 383, 399, 1768, 1775, 8362, 8369 and 8384 (*External resistor required)

MODEL 159



T - 3 1/4 MINI SCREW BASE CLUSTER LED

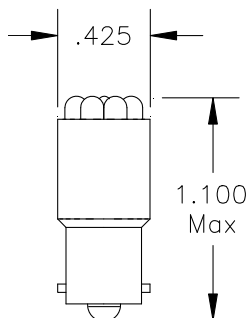
Available in Red, Green, Yellow, Amber, Ultra Bright Green, Ultra Bright Blue and Pure White. Voltages available range from 2 - 24 VDC and 5 - 120 VAC. Please specify color when ordering. Insert 1 - Red, 2 - Green 3 - Yellow, 4 - Amber, 5 - Ultra Green, 6 - Ultra Blue, 7 - Pure White where "X" appears below. Ultra Bright Blue, Ultra Bright Green and White are configured with a single 5mm LED only. All others are configured with a six T-1 LED cluster.

<u>Voltages</u>	<u>Dual Polarity AC/DC</u>	<u>Voltages</u>	<u>Dual Polarity AC/DC</u>
2vdc*	159-DP2X	24vdc/vac	159-DP24X
5vdc/vac	159-DP5X	28vdc/vac	159-DP28X
6.3vdc/vac	159-DP603X	48vdc/vac	159-DP48X
14vdc/vac	159-DP14X	60vdc/vac	159-DP60X
18vdc/vac	159-DP18X	120vdc/vac	159-DP120X

Direct replacement for the following incandescent lamps: 13, 14, 27, 31, 40, 46, 50, 52, 222, 245, 432, 509K,1446, 1447 and 1449.

*External resistor required

MODEL 197



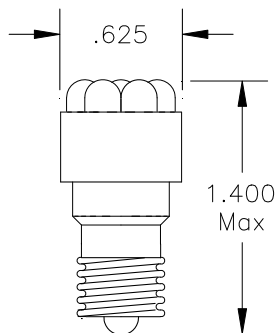
T - 3 ¼ MINIATURE BAYONET CLUSTER LED - Dual Polarity AC/DC

Voltages available from 5 - 48VDC and 5 - 120VAC. Please specify color when ordering. Insert 1 - Red, 2 - Green, 3 - Yellow, 4 - Amber, 5 - Ultra Green, 6 - Ultra Blue, 7 - Pure White where "X" appears below. Ultra Bright Blue, Ultra Bright Green and White are configured with a single 5mm LED only. All others are configured with a six T-1 LED cluster.

<u>Voltages</u>	<u>Pos. Ctr.</u>	<u>Neg. Ctr.</u>	<u>Dual Pol.</u>
5vdc/vac	197-PC5X	197-NC5X	197-DP5X
14vdc/vac	197-PC14X	197-NC14X	197-DP14X
24vdc/vac	197-PC24X	197-NC24X	197-DP24X
28vdc/vac	197-PC28X	197-NC28X	197-DP28X
48vdc/vac	197-PC48X	197-NC48X	197-DP48X
120vac			197-DP120

Direct replacement for the following incandescent lamps: 24MB, 28MB, 44, 47, 53, 60RB, 120MB, 194, 256, 313, 356, 363, 756, 757, 1445, 1450, 1495, 1813, 1815, 1816, 1818, 1819, 1820, 1829, 1850, 1855, 1864, 1866, 1891, 1892, 1893.

MODEL 160



T - 4 ½ CANDELABRA LED - Dual Polarity AC/DC

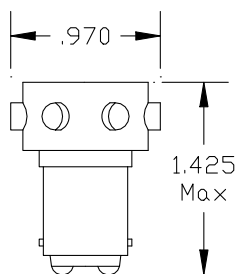
S6 candelabra screw base LED light. Long life, low power replacement for incandescent lamps. Dual polarity works in both AC and DC applications. Comes as a 4 LED cluster. Insert 1 - Red, 2 - Green, 3 - Yellow, 4 - Amber, 5 - Ultra Green, 6 - Ultra Blue, 7 - Pure White where "X" appears.

<u>Voltage</u>	<u>Model No.</u>
12	160-12X
24	160-24X
28	160-28X
48	160-48X
60	160-60X
120	160-120X (AC only)

Direct replacement for 3S6 and 6S6 lamps

How to Order: Model No.-Voltage-Color
 Example: 160-121

MODEL 460

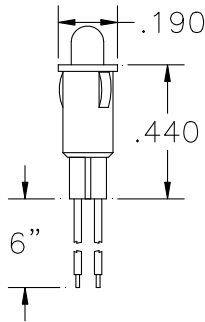


STACK LIGHT - Dual Polarity AC/DC

S8 candelabra bayonet base with dual contacts is designed to replace incandescent lighting in Stack Lights. Reduce your energy and maintenance cost with long life LEDs. Voltages available from 24 to 120. With 360 degree viewing, these lights are available in all colors. Insert 1 - Red, 3 - Yellow, 4 - Amber, 5 - Ultra Green, 6 - Ultra Blue, 7 - Pure White where "X" appears below.

<u>Voltages</u>	<u>Model No.</u>
24	460-24X
28	460-28X
60	460-60X
120	460-120X (AC only)

MODEL 150



T-1 LED for 5/32" PANEL MOUNT HOLE

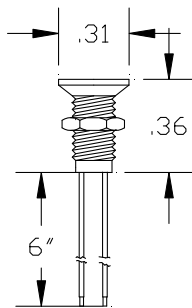
NON-RELAMPABLE INDICATOR

Snap mount, rugged nylon body - black, provided with 6" leads with 0.250" strip length. Available in Red, Green, Yellow, Amber, Ultra Bright Green, Ultra Bright Blue and Pure White. When ordering specify LED color, Insert 1 - Red, 2 - Green, 3 - Yellow, 4 - Amber, 5 - Ultra Green, 6 - Ultra Blue, 7 - Pure White where "X" appears.

<u>Voltage</u>	<u>Model No.</u>	
2vdc*	150-2X	Red, Green, Yellow and Amber only
5vdc	150-5X	
12vdc	150-12X	
24vdc	150-24X	
28vdc	150-28X	

*external resistor required

MODEL 109



T - 1 PANEL MOUNT FRONT LED

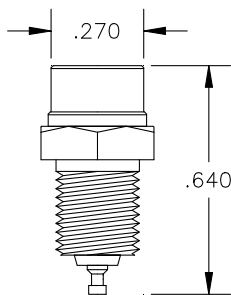
NON-RELAMPABLE INDICATOR

This screw mount LED lamp mounts flush with panel face. Mounting hole diameter is 5mm (.197"). Counter bore is required. Nickel plated brass body with Lexan lens. 6" wire leads with .250 strip length. Available in the new Ultra Bright White as well as Red, Green, Yellow, Amber, Ultra Bright Blue and Ultra Bright Green. Insert 1 - Red, 2 - Green, 3 - Yellow, 4 - Amber, 5 - Ultra Green, 6 - Ultra Blue, 7 - Pure White where "X" appears below.

<u>Voltage</u>	<u>Model No.</u>	
2vdc*	109-2X	Red, Green, Yellow and Amber only
5vdc	109-5X	
12vdc	109-12X	
28vdc	109-28X	

*external resistor required

MODEL 102



PANEL MOUNT FRONT RELAMPABLE

USES T - 1 INCANDESCENT OR LED

There are two styles of the Model 102. One with a standard body, Model 102-S and one with an insulated body, Model 102-SI

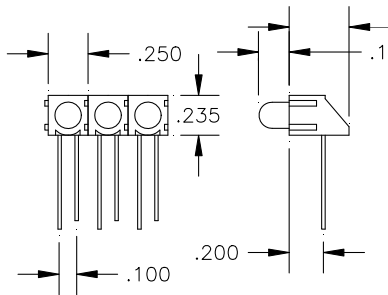
MODEL 102S

This model utilizes the T-1 Midget flanged-based incandescent bulb or the long-life LED. Recommended for installation where indicator lights must be mounted close together. An internal silicone rubber pressure pad maintains electrical contact inside the lamp body. Because of its high spring rate the pad cannot take a permanent set. It also provides an effective front-to-back moisture seal. Other body styles available are the SK, SS and SR. (Contact the factory for further information)

MODEL 102SI

This two-terminal version of the basic 102 Model is offered in the SI, SKI, SSI and SRI body styles. (Call factory for more information) Electrical contact with the indicator light body is made by means of a solder lug. Various lens styles available for both the 102S and the 102SI. (Contact the factory for further information)

MODEL 211



Tint

T - 1 3/4 HORIZONTAL PCB MOUNT LED

Printed circuit board horizontal mount LED. The 211 Model is available as individuals or in an array. Each array offers flexibility in unlimited number of LED color and tints with unlimited number of LED's. Leads are 90° to LED for horizontal viewing angle. LED centerline is 0.125" above board surface.

Color Codes

A - Amber
G - Green
R - Red

LED Tint

D - Diffused
CT - Clear Tinted
WC - Water clear

How to Order:

Example:

How to Order an Array:

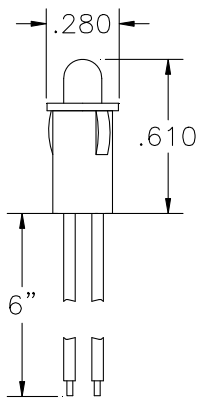
Model No.-LED Color-LED Tint

211-A-D

Model No.-LED Color-LED

Example: Amber and Red Water Clear 211-AWC-RWC-AWC

MODEL 240



T - 1 3/4 LED PANEL MOUNT NON-RELAMPABLE INDICATOR

The 240 Model incorporates a non-relampable LED in a choice of colors. For panel mounting through a 1/4" (0.250") diameter hole; snap mount, needs no mounting hardware. No lens for maximum viewing angle. Supplied with 6" wire leads and .250" strip length. Can be supplied with or without built in current limiting resistor. Insert 1 - Red, 2 - Green, 3 - Yellow, 4 - Amber, 5 - Ultra Green, 6 - Ultra Blue, 7 - Pure White where "X" appears below.

Voltage

2vdc*
5vdc
12vdc
28vdc

Model No.

240-2X
240-5X
240-12X
240-28X

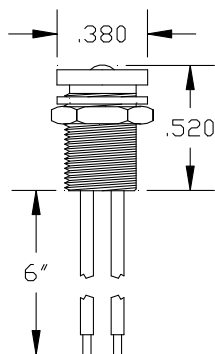
Red, Green, Yellow, and Amber only

How To Order: Model No.-Voltage-Color

Example: 240-121

*External resistor required

MODEL 252



T - 1 3/4 PANEL MOUNT NON-RELAMPABLE LED

The 252 Model incorporates a LED in a variety of colors. Screw mount for panel mounting through a 5/16" (0.312") diameter hole. Black anodized aluminum for a neat panel appearance. Supplied with or without internal resistor, for operation from 5V, 12V, or 28V sources. Supplied with 6" wire leads and .250" strip length. Insert 1 - Red, 2 - Green, 3 - Yellow, 4 - Amber, 5 - Ultra Green, 6 - Ultra Blue, 7 - Pure White where "X" appears below. Contact the factory for other voltage options.

Voltage

2vdc*
5vdc
12vdc
28vdc

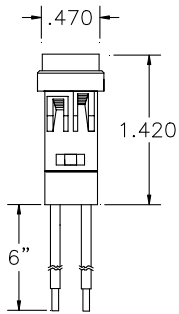
Model No.

252-2X
252-5X
252-12X
252-28X

Red, Green, Yellow and Amber only



MODEL 500



T 1 3/4 LED PANEL MOUNT NON-RELAMPABLE INDICATOR

The 500 Model incorporates a T 1 3/4 size LED in a choice of colors. For panel mounting through a 1/2" (0.500") diameter hole; needs no mounting hardware. Transparent lens. Supplied standard with 6" wire leads, although any length can be ordered. Optional .187 QC terminals may be specified. Can be supplied with or without built in current limiting resistor. For operation from 5V, 12V, or 28V sources. Contact the factory for other voltage options.

LED Color

A - Amber
G - Green
R - Red

Lens Color

ATP - Amber Transparent
GTP - Green Transparent
RTP - Red Transparent
CTP - Clear

Terminals

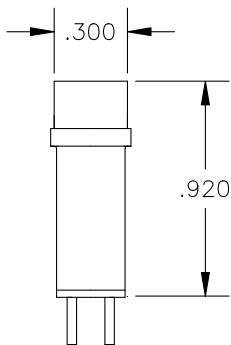
QC - .187 QC terminal
6" - 6" wire leads

How to Order:

Example:

Model No.-LED color-Lens color-Voltage/Current -Terminals
500-A-CTP-5/20-6"

MODEL 502



PANEL MOUNT CARTRIDGE LAMP LED/INCANDESCENT/NEON

Cartridges consist of an aluminum body incorporating either an LED, incandescent or neon light source. Termination is by stainless steel pins suitable for use with a solder lug socket connector, wire wrap™ post adapter or lead wire terminal connector. LED versions can be supplied with or without built-in resistors. Mounts in 0.290" diameter hole with black anodized aluminum body. Secured with a Tinnerman nut. Operation of LED and Incandescent from 2V to 28V. Neon operation from 110 to 220V.

Color Codes

R - Red
G - Green
A - Amber

Lens Style

Fresnel Lens
F- Flat
D - Domed

Lens Colors Transparent

RTP - Red
BTP - Blue
GTP - Green
ATP - Amber
CTP - Clear

Lens Colors Translucent

RTL - Red
BTL - Blue
WTL - White
GTL - Green
ATL - Amber

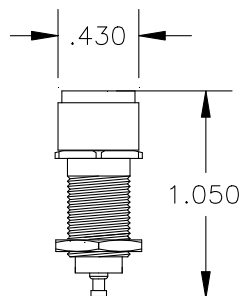
How to Order:

Incandescent and neon cartridges:

LED: 502-R-F-RTP-5/15

502-A1C-F-RTP-110

MODEL 855



PANEL MOUNT FRONT RELAMPABLE USES T 1 3/4 INCANDESCENT OR LED

MODEL 855-S

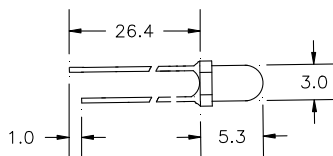
Among the outstanding features of the screw mount 855 series are a small mounting size 3/8" and interchangeable lens assemblies. Contact pressure is maintained by a silicone rubber pressure pad. Uses T-1 3/4 midget flange based bulb, incandescent or LED.

MODEL 855-SI

The 855-SI model is the two-terminal version of the 855-S model. The body is insulated from the panel (or case) by insulating washers. Electrical contact with the body is made through a solder lug. Designed specifically to use T- 1 3/4 midget flanged based bulbs, incandescent or LED.

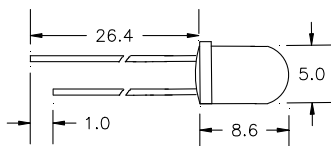
There are many styles of lenses and colors that can be used with both models. Contact the factory for more information.

**MODEL SL903
T-1 (3mm)
WATERCLEAR**



Part No.	Emitted Color	Wave Length	Lens Color	View Angle (deg)	Electro-Optical Characteristics					Absolute Max Ratings		
					Vf(V)		If (Rec)	Iv (mcd)		Pd mW	If mA	If mA (Peak)
					Typ.	Max.		Min.	Typ.			
SL903GC	Green	565	Water Clear	30	2.1	2.8	10~20	30	100	100	30	160
SL903GCH	Green	565	Water Clear	30	2.1	2.8	10~20	100	250	100	30	160
SL903GCV	Green	565	Water Clear	30	2.1	2.8	10~20	250	350	100	30	160
SL903GCS	Green	568	Water Clear	30	1.8	2.1	10~20	350	500	100	30	160
SL903YC	Yellow	585	Water Clear	30	1.8	2.1	10~20	8	30	100	30	160
SL903YCH	Yellow	585	Water Clear	30	1.8	2.1	10~20	30	100	100	30	160
SL903YCV	Yellow	585	Water Clear	30	1.8	2.1	10~20	100	250	100	30	160
SL903YCS	Yellow	585	Water Clear	30	1.8	2.1	10~20	250	350	100	30	160
SL903YCU	Yellow	595	Water Clear	30	2.0	2.4	20~30	350	500	100	40	200
SL903OC	Hi.Eff. Red	635	Water Clear	30	2.0	2.8	10~20	12	50	100	30	160
SL903OCH	Hi.Eff. Red	635	Water Clear	30	2.0	2.8	10~20	25	50	100	30	160
SL903OCV	Hi.Eff. Red	620	Water Clear	30	2.1	2.8	10~20	1000	2000	80	30	160
SL903OCU	Hi.Eff. Red	630	Water Clear	30	2.1	2.8	20	2000	2500	80	40	200
SL903RC	Red	700	Water Clear	30	2.1	2.8	5~10	5	15	45	15	50
SL903RCH	Red	660	Water Clear	30	1.8	2.1	10~20	150	500	60	20	160
SL903RCV	Red	660	Water Clear	30	1.8	2.1	10~20	500	700	60	20	160
SL903RCS	Red	660	Water Clear	30	1.8	2.1	10~20	700	1000	60	20	160
SL903RCU	Red	660	Water Clear	30	1.8	2.1	10~20	1000	1250	60	20	160

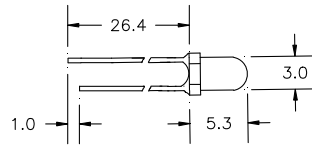
**MODEL SL905
T-1 3/4 (5mm)
WATERCLEAR**



Part No.	Emitted Color	Wave Length	Lens Color	View Angle (deg)	Electro-Optical Characteristics					Absolute Max Ratings		
					Vf(V)		If (Rec)	Iv (mcd)		Pd mW	If mA	If mA (Peak)
					Typ.	Max.		Min.	Typ.			
SL905BC	Blue	430	Water Clear	20	4.9	5.5	10~20	300	500	165	30	160
SL905GC	Green	565	Water Clear	30	2.1	2.8	10~20	10	30	100	30	160
SL905GCH	Green	565	Water Clear	30	2.1	2.8	10~20	100	250	100	30	160
SL905GCV	Green	565	Water Clear	30	2.1	2.8	10~20	250	500	100	30	160
SL905GCS	Green	565	Water Clear	30	2.1	2.8	10~20	500	750	100	30	160
SL905YC	Yellow	585	Water Clear	30	2.1	2.8	10~20	10	30	100	30	160
SL905YCH	Yellow	595	Water Clear	30	2.1	2.4	10~20	30	100	120	30	200
SL905YCV	Yellow	595	Water Clear	30	2.1	2.4	10~20	100	250	120	40	200
SL905YCS	Yellow	595	Water Clear	30	2.1	2.4	10~20	250	400	120	40	200
SL905OC	Hi.Eff. Red	635	Water Clear	30	2.0	2.8	10~20	20	60	100	30	160
SL905OCH	Hi.Eff. Red	635	Water Clear	30	2.0	2.8	10~20	60	100	100	30	160
SL905OCV	Hi.Eff. Red	635	Water Clear	30	2.0	2.4	10~20	100	200	100	30	160
SL905OCS	Hi.Eff. Red	635	Water Clear	20	2.0	2.4	10~20	200	250	100	30	160
SL905RC	Red	700	Water Clear	30	2.1	2.8	5~10	8	20	45	15	50
SL905RCH	Red	660	Water Clear	30	1.8	2.1	10~20	300	1000	60	20	160
SL905RCV	Red	660	Water Clear	30	1.8	2.1	10~20	1000	2000	60	20	160
SL905RCS	Red	660	Water Clear	30	1.8	2.1	10~20	2000	3000	60	20	160

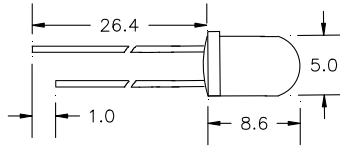


**MODEL SL903
T-1 (3mm)
DIFFUSED**



Part No.	Emitted Color	Wave Length	Lens Color	View Angle (deg)	Electro-Optical Characteristics					Absolute Max Ratings		
					Vf (V)		If (mA)	Iv (mcd)		Pd (mW)	If (mA)	If (Peak)
					Typ.	Max.		Min.	Typ.			
SL903GD	Green	565	Green Diffused	60	2.1	2.8	20	2.5	12.5	100	30	160
SL903GDH	Green	565	Green Diffused	60	2.1	2.8	20	12.5	30.0	100	30	160
SL903GDV	Green	565	Green Diffused	60	2.1	2.8	20	30.0	60.0	100	30	160
SL903GDS	Green	565	Green Diffused	60	2.1	2.8	20	60.0	90.0	100	30	160
SL903YD	Yellow	585	Yellow Diffused	60	2.1	2.8	20	2.5	12.5	100	30	160
SL903YDH	Yellow	585	Yellow Diffused	60	2.1	2.8	20	12.5	30.0	100	30	160
SL903YDV	Yellow	585	Yellow Diffused	60	2.1	2.8	20	30.0	60.0	100	30	160
SL903OD	Hi. Eff. Red	635	Red Diffused	60	2.0	2.8	20	3.0	20.0	100	30	160
SL903ODO	Hi. Eff. Red	635	Orange Diffused	60	2.0	2.8	20	3.0	20.0	100	30	160
SL903RD	Red	700	Red Diffused	60	2.1	2.8	10	0.8	5.0	45	15	50
SL903RDH	Red	660	Red Diffused	60	1.8	2.1	20	50.0	100	60	30	160
SL903RDV	Red	660	Red Diffused	60	1.8	2.1	20	100	200	60	30	160
SL903RDS	Red	660	Red Diffused	60	1.8	2.1	20	200	300	60	30	160

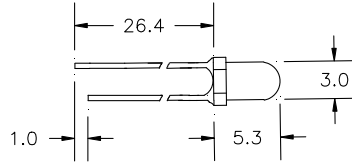
**MODEL SL905
T-1 3/4 (5mm)
DIFFUSED**



Part No.	Emitted Color	Wave Length	Lens Color	View Angle (deg)	Electro-Optical Characteristics				Absolute Max Ratings			
					Vf (V)		If (mA)	Iv (mcd)		Pd (mW)	If (mA)	If (Peak)
					Typ.	Max.		Min.	Typ.			
SL905GD	Green	565	Green Diffused	60	2.1	2.8	3	15	100	30	160	
SL905GDH	Green	565	Green Diffused	60	2.1	2.8	15	40	100	30	160	
SL905GDV	Green	565	Green Diffused	60	2.1	2.8	40	80	100	30	160	
SL905GDS	Green	565	Green Diffused	60	2.1	2.8	80	120	100	30	160	
SL905YD	Yellow	585	Yellow Diffused	60	2.1	2.8	5	20	100	30	160	
SL905YDH	Yellow	585	Yellow Diffused	60	2.1	2.8	20	40	100	30	160	
SL905YDV	Yellow	595	Yellow Diffused	60	2.1	2.4	40	80	120	40	200	
SL905YDS	Yellow	595	Yellow Diffused	60	2.1	2.4	80	120	120	40	200	
SL905YDU	Yellow	595	Yellow Diffused	60	2.1	2.4	120	160	120	40	200	
SL905OD	Hi. Eff. Red	635	Red Diffused	60	2.1	2.8	5	20	100	20	160	
SL905ODH	Hi. Eff. Red	635	Red Diffused	60	2.1	2.8	20	40	100	30	160	
SL905ODV	Hi. Eff. Red	620	Red Diffused	60	2.0	2.4	40	80	120	40	200	
SL905ODS	Hi. Eff. Red	620	Red Diffused	60	2.0	2.4	80	120	120	40	200	
SL905ODU	Hi. Eff. Red	620	Red Diffused	60	2.0	2.4	120	160	120	40	200	
SL905RD	Red	700	Red Diffused	60	1.7	2.8	0.8	5	45	15	50	
SL905RDH	Red	660	Red Diffused	60	1.8	2.1	50	200	60	20	160	
SL905RDV	Red	660	Red Diffused	60	1.8	2.1	200	300	60	20	160	
SL905RDS	Red	660	Red Diffused	60	1.8	2.1	300	400	60	20	160	
SL905RDU	Red	660	Red Diffused	60	1.8	2.1	400	500	60	20	160	

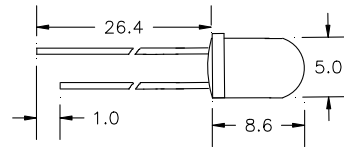


**MODEL SL903
T-1 (3mm)
ULTRA BRIGHT**



Part No.	Chip		Wave Length	Lens Color	View Angle (deg)	Electo-Optical Characteristics			Absolute Max Ratings		
	Raw Material	Emitted Color				Vf(V)		IV (mcd)	Pd mW	If mA	If mA (Peak)
						Typ.	Max.	Typ.			
SL903WCE	InGaN/YAG	Pure White	-	Water Clear	30	3.6	4.0	630	120	30	100
SL903BCE	GaN/SiC	Blue	430	Water Clear	40	3.8	4.5	100	120	30	100
SL903GCE	AlGaInP	Green	575	Water Clear	40	2.0	2.4	120	120	30	100
SL903RCE	AlGaInP	Red	635	Water Clear	40	2.0	2.4	350	120	30	100
SL903YCE	AlGaInP	Yellow	590	Water Clear	40	2.0	2.4	385	120	30	100
SL903ACE	AlGaInP	Amber	620	Water Clear	40	2.0	2.4	420	120	30	100

**MODEL SL905
T-1 ¾ (5mm)
ULTRA BRIGHT**



Part No.	Raw Material	Emitted Color	Wave Length	Lens Color	Angle (deg)	Vf(V)		IV (mcd)	Pd mW	If mA	If mA (Peak)
						Typ.	Max.	Typ.			
SL905WCE	InGaN/YAG	Pure White	-	Water Clear	45	3.6	4.0	1200	120	30	100
SL905WCE-13	InGaN/YAG	Pure White	-	Water Clear	13	3.6	4.0	3700	120	30	100
SL905WCE-20	InGaN/YAG	Pure White	-	Water Clear	20	3.6	4.0	3300	120	30	100
SL905BCE	GaN/SiC	Blue	430	Water Clear	20	3.8	4.5	400	120	30	100
SL905GCE	AlGaInP	Green	575	Water Clear	20	2.0	2.4	2200	120	30	100
SL905RCE	AlGaInP	Red	635	Water Clear	13	2.0	2.4	7300	120	30	100
SL905YCE	AlGaInP	Yellow	590	Water Clear	13	2.0	2.4	8900	120	30	100
SL905ACE	AlGaInP	Amber	620	Water Clear	13	2.0	2.4	9900	120	30	100

