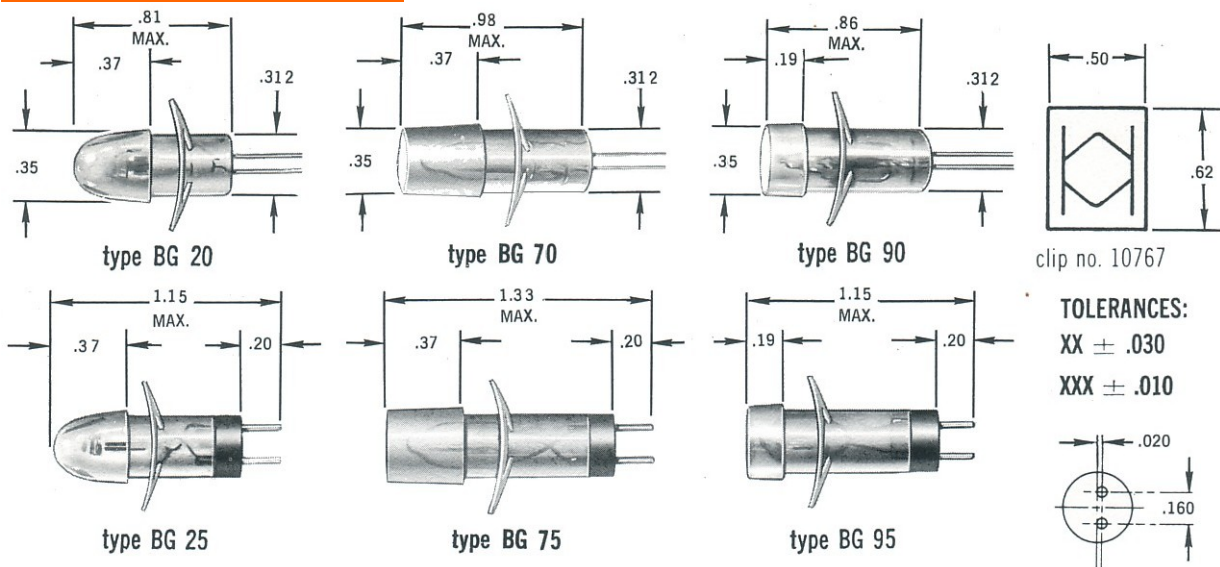


ELDEMA B-LITES



EXAMPLE

BG90-RC-NE2E Would be style BG90, red clear lens and NE2H lamp.

The BG20, BG70 and BG90 may be furnished with attached resistor. The style available is listed as the NE2H with 33K resistor which is the recommended combination for 120 volt. Other lamp-resistor combinations obtained on special order in production quantities.

The 2K sockets is a low cost connector for use with the 2 pin B-lites, styles BG25 BG75 and BG95. The socket is of military grade molded material with tin plated solder terminals.

SPECIFICATIONS

Styles 20,25,70,75,90 & 95

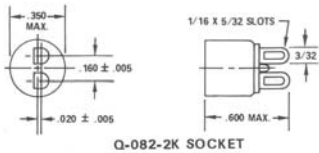
Lens Cap: Injection molded butyrate FED-L-P-349

Neon Lamp: NE2H Type

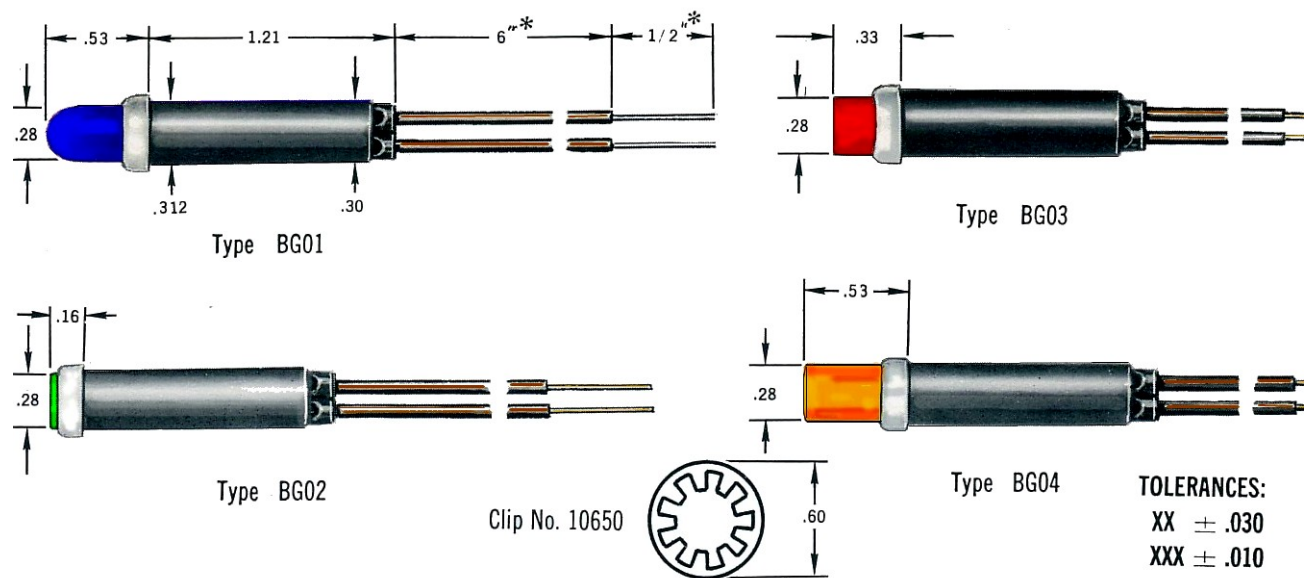
Mounting: Mounts in 5/16" hole in panels up to 1/8 thick with tinnerman clip.

Leads: Approximately 2" wire leads

STYLE	LENS COLOR	LAMP NUMBER	CLIP/SOCKET
BG20 BG25 BG70 BG75 BG90 BG 95	AC- Amber CC- Cloudy RC- Red WC- Water GC- Green BC- Blue	NE2E NE2V A1C NE2E NE2U A1B NE2H-33K= for 110 Volts NOTE: Available with LED'S contact ELDEMA	Order as separate item Clip # 10767 furnished In bulk with B- Lites Socket # 2K separately Quoted and supplied



ELDEMA B-LITES



Type	Lens Color	Collar color	Lamp Number	CLIP/SOCKET
XX BG 01 BG 02 BG 03 BG 04	XX RC-Red Clear AC-Amber Clear CC-Cloudy Clear WC- Water Clear GC- Green Clear BC- Blue Clear	XXXX STANDARD S-silver OPTIONAL B - Black	XXXX NE2E NE2V A1C NE2H NE2U A1B NE2H-033K=for 110 volts NE2H-150K=for 240 volts NE2E-068K=for 90 volt D.C. The BG 02 cannot be Supplied with resistor. Available with LED'S Contact ELDEMA	Order as a separate item Clip #10650 furnished In bulk with B- lites

EXAMPLE:
BG03-RCS-NE2H-033K would be a type BG03
With a red clear lens, silver collar, an NE-2H lamp
With a 33K resistor, and standard leads.

LENS MARKING:
Lens marking may be ordered with any of the flat top lenses
up to two digits, letters or symbols .187" high. Please specify completely.
Black legends are standard.

SPECIFICATIONS-
Styles: 01,02, 03, & 04.

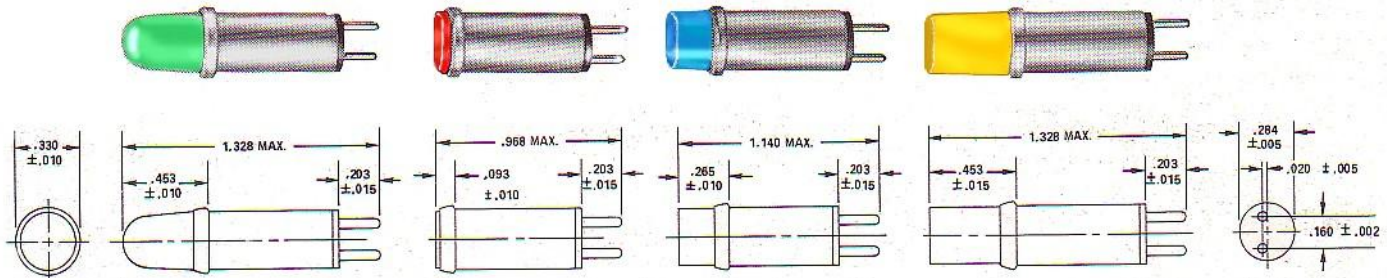
Lens Cap: Injection molded butyrate per Fed-L-P-349
Collar: Aluminum alloy.
Case: Injection molded nylon.
Leads: AWG # 22 tinned copper wire, 7 strand, 1/32" vinyl
Type U.L. approved insulation, 105 C. Standard color
is brown, stripped 1/2".
Standard length is 6"-other lengths on special order.

Mounting: Mounts in a .312" hole in panels up to .375"
Thick with a spring clip.

ELDEMA CF SERIES INCANDESCENT C-LITES

Eldema CF Series incandescent C-lites have an unbased lamp packaged inside the cartridge, with connections made to the two pins. The lamps used are the standard T-1-3/4 bulb size or smaller with ratings from 1.35 To 28 volts available. Lens colors in both clear and translucent shades are all standard. The short flat lens style cartridge- CF03, meets MS18235 requirements.

MATE WITH DH LAMPHOLDERS



**CF04
DOME LENS**

**CF02
FLUSH LENS**

**CF03 & CF93
SHORT FLAT LENS**

**CF04
LONG FLAT LENS**

ORDERING INFORMATION

To order Eldema incandescent C – Lites refer to the table at the right and specify Style, Lens Color, Cartridge Finish and Lamp Number.

EXAMPLE PART NUMBER
CF03 – RTS – 2187

CHOICE OF LENS SHAPE & COLOR

The CF03, short flat lens is the style used in most applications. The long flat lens, CF04 and the dome lens, CF01 are used where wide side visibility is important.

The lens colors for CF incandescent C-Lites are usually the translucent shades except for the lower brilliance lamps which should be used with the clear colors. The translucent lens colors give an even, diffused light over the lens surface.

The transparent lens color (WC- water clear) should be used with the lampholders and screw-on D Series lens caps.

LAMP SPECIFICATIONS

The lamp specification shown are the lamps manufacturer's rating and are based on average performance under laboratory conditions. The milli ampere MA ratings are nominal values with 10% tolerance at rated voltage operation.

SERIES CF STYLE	LENS COLOR	FINISH	LAMP			
 CF 01 DOME	Translucent AT – Amber BT – Blue GT – Green RT – Red WT – White YT – Yellow CLEAR AC – Amber BC – Blue CC – Cloudy GC – Green RC – Red WC–Water clear YC – Yellow	Standard S - clear Anodize	NUMBR	VOLTS	MA	LIFE (HRS)
			1728*	1.35	60	5,000
			1738*	2.7	60	6,000
			2158*	3.0	15	10,000
		680	5.0	60	60,000	
 CF 02 FLUSH		OPTIONAL B – Black Anodize	1730	6.0	40	1,000
			2114	6.0	60	3,000
			1784	6.0	200	1,000
			2180	6.0	40	20,000
		CLEAR	2112	6.3	200	5,000
			2181	6.3	200	20,000
			1869*	10.0	14	100,000
			2107*	10.0	40	10,000
 CF03 & CF 93 SHORT FLAT		2174	12.0	40	10,000	
		1705	14.0	80	1,500	
		2182	14.0	80	15,000	
	4814*	14.0	17	50,000		
	4818*	18.0	20	20,000		
	2102	18.0	40	10,000		
	1762	28.0	40	4,000		
 CF 04 LONG FLAT	2185	28.0	40	20,000		
	2187	28.0	40	7,000		
	* These Lamps should be used with the clear lens colors only because of their relatively lower light output					

* These Lamps should be used with the clear lens colors only because of their relatively lower light output



CF 93 lens style

A fluted lens cap for improved light dispersion on low power Lamps and elimination of "hot spots" on high power lamps is available.

Dimensionally same as **CF03** above

STANDARD		FLUTED
CF 03	Becomes	CF 93
CG03	Becomes	CG 93
CR 03	Becomes	CR 93

ELDEMA CG AND CR SERIES NEON C-LITES

CR SERIES-NEON LAMP WITH BUILT-IN-RESISTOR CG SERIES-NEON LAMP ONLY

Eldema neon C-lites come in two basic types-CG series with the neon lamp built into the cartridge but requiring an external resistor and CR series, with the lamp and current limiting resistor built into the cartridge. Neon C-Lites only come in clear (transparent) lens colors due to their low light output. The water clear (WC) lens color should be specified when the neon C-Lites is used with a DH lampholder and lens cap. The CR01 conforms to MS18236 and the CR04 to MS18237 requirements



ORDERING INFORMATION

To order Eldema neon C - Lites refer to The table at right and specify the style Lens color-Cartridge finish and lamp Or lamp/Resistor number.

Example Part Number

CG03-RCS-N120
CR03-WCS-N117

CHOICE OF LAMP

High brightness lamps offer the best Indication and require 110 volts AC Or 150 volts DC for their operation. The current is less than 1.5 MA with A 33K resistor in series with the lamp.

The standard brightness lamps require Less than 0.6 MA current and operate On 90 volts DC or 65 volts AC with a 100K resistor in series with the lamp.

The special component lamps are comparable To the standard brightness lamps selected for The firing voltages listed.

RECOMMENDED RESISTOR VALUES

The lower the resistor value, the greater The light output but the life rating Decreases. The standard life ratings Is the best compromise for most Applications. Listed below are the Approximate life ratings for operation on 110-125 volts AC and recommended resistor.

HIGH BRIGHTNESS LAMPS

Standard life - 25,000 hours - 33K
Medium life - 3,000 hours - 22K

STANDAR BRIGHTNESS LAMPS

Standard life - 15,000 Hrs - 100K
Medium life - 5,000 Hrs - 56K
Long Life - 25, 00 Hrs - 150K

The last digit in the Lamp/resistor number Designates the resistor value as follows:
CG style 0 - (none)
CR style (1 - 22K, 4 - 56K, 8 -150 K)
Other resistor values on special order

CG SERIES STYLE	LENS COLOR	FINISH	LAMP NUMBER
Neon without Resistor  CG01 Dome  CG93 & CG03 Short Flat  CG04 Long Flat	Clear Colors only AC - Amber CC - Cloudy RC - Red WC -Water clear YC - Yellow BC - Blue clear GC - Green clear Cloudy Clear (CC) is the shade of white most suitable for Neon Lamps.	S - Clear Anodize (standard) B - Black Anodize (special)	Standard Neon Lamps N110 - Standard Brightness N120 - High Brightness Special Component Lamps (available in CG01 and CG04 Only) N210* - Firing Voltage 72+/- 8 VDC N220* - Firing Voltage 72+/- 4 VDC N230* - Firing Voltage 80 VDC Max.
CR SERIES STYLE	LENS COLOR	FINISH	LAMP/ RESISTOR NUMBER
 CR01 Dome  CR93 & CR03 Short Flat  CR04 Long Flat	Same As above	Same As above	STANDARD NEON LAMPS N114 - Standard Brightness Medium Life (56K) N117 - Standard Brightness Standard Life (100K) N118 - Standard Brightness Long life (150K) N121 - High Brightness Medium Life (22K) N123 - High Brightness Standard Life (33K)

* the special component lamps are longer than the indicator style lamps and require the long CG01 and CG04 lens shape. These lamps are available with a built-in resistor in the long CN series

ELDEMA CL, CM AND CQ SERIES C-LITES

The incandescent C-lites shown on this page are designed around the Longer length telephone-type lamp bulbs. The extra length of bulb is Required to accommodate sufficient filament to handle voltages up to 120 Volts. This group of C-lites and the mating DL and DM single lampholders Provide rugged, dependable indicators and use a minimum of panel space. The CQ neon series is designed to match with the CM incandescents in The same lampholders.

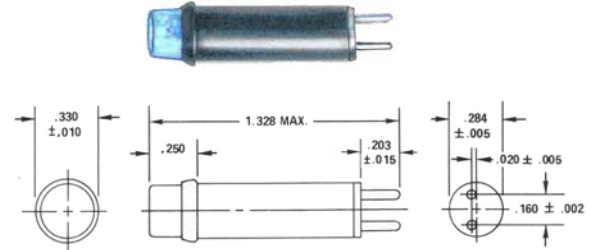
ELDEMA C-LITES FOR DL SERIES LAMP HOLDERS

TYPE CL 24

The CL24 incandescent C-lites mate With the DL series lampholders with the D06, D09 or D25 lens caps. These C-lites package the pilot-lamp style telephone bulbs. Black anodized case. The bulb end is exposed.

MS Number Configurations:
CL24-48PS MS18238-1
CL24-60PS MS18238-2

ORDERING INFORMATION			
Part Number	Volts	MA	Life (Hrs)
CL24 – 6PS	6.0	140	5,000
CL24 – 12 PS	12.0	170	5,000
CL24 – 24 PS	24.0	73	5,000
CL24 – 28 PS	28.0	40	5,000
CL24 – 48 PS	48.0	53	5,000
CL24 – 60 PS	60.0	50	5,000
CL24 –120PS	120.0	25	5,000



PART MARKING

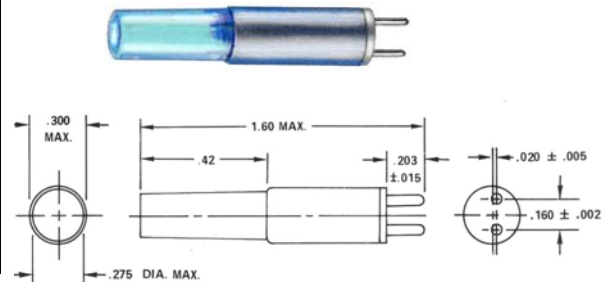
ELDEMA – C – LITE – PART NUMBER – VOLTAGE AND MA.

ELDEMA C – LITES FOR DM SERIES LAMP HOLDERS

TYPE CM 12

The CM12 incandescent C-lites mate with the DM Series lampholders with the D06, D09 or D25 lens caps. These C-lites employ rugged long life telephone lamps. Clear anodized case. The bulb end is exposed. The CM12 may also be used with the DL Holder with the D07 long lens cap where wide side visibility is required.

ORDERING INFORMATION			
Part Number	Volts	MA	Life (Hrs)
CM 12- 6A	6.0	140	5,000
CM12- 12 A	12.0	100	5,000
CM12- 24 B	24.0	40	5,000
CM12- 48 C	48.0	35	5,000
CM12- 60 A	60.0	50	5,000



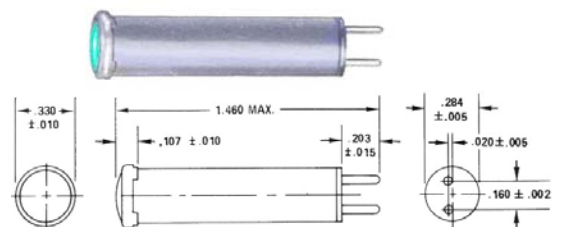
PART MARKING

ELDEMA – C – LITE – PART NUMBER – VOLTAGE AND MA

TYPE CM65

The CM65 incandescent C-lites mate with the DM series lampholders with the D06, D09 or D25 lens caps. These C-lites packaged the pilot-lamp type telephone bulbs. Clear anodized case with high-temperature frosted lens cap to diffuse the light.

ORDERING INFORMATION			
Part Number	Volts	MA	Life (Hrs)
CM65-6PS	6.0	140	5,000
CM65-12PS	12.0	170	5,000
CM65-28PS	28.0	40	5,000
CM65-48PS	48.0	53	5,000
CM65-60PS	60.0	50	5,000
CM65-120PS	120.0	25	5,000



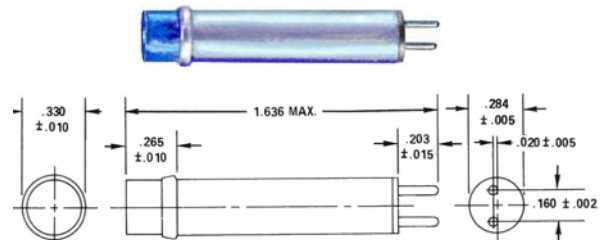
PART MARKING

ELDEMA – C – LITE – PART NUMBER – VOLTAGE AND MA.

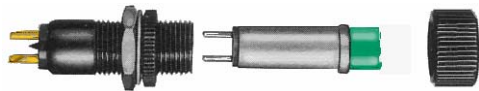
CQ SERIES-NEON WITH BUILT IN RESISTOR

The CQ series Neon C-lite have the neon lamp resistor built into the cartridge and mate with the DM series lamp-holders. Any of the lamp/resistor numbers offered in the CR or CN neon C-lites Are available in the CQ series. Specify style-lens color, finish, lamp/resistor Number.

EXAMPLE: CQ03-WCS-N123, high brightness lamp for 110-125 Volt AC operation with 33k resistor built in for 25,000 - hour life rating.

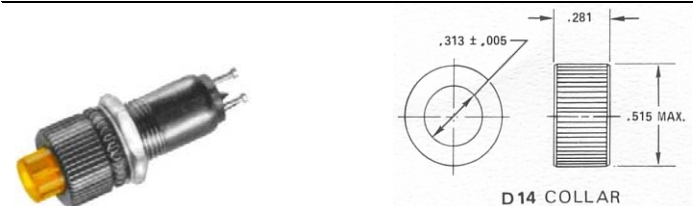


ELDEMA D – HOLDERS LENS CAPS AND COLLARS



MATE WITH SINGLE LAMP HOLDERS

These lens caps and collars mate with the single lamp holders. The Collars may be used with C-lites that have colored lenses. The lens Caps should be used with C-lites with water clear (transparent) lenses. The lens caps are high temperature plastic with anodized aluminum bushings.



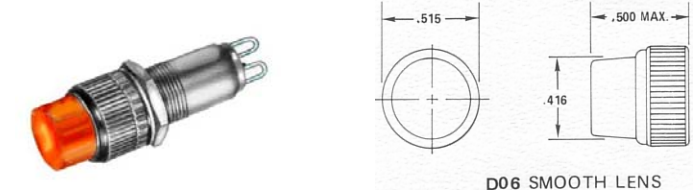
D14 COLLAR

The D14 knurled collar is designed for use On the DHO holder only. The collar securely retains all CF,CG or CR series C- lites cartridges



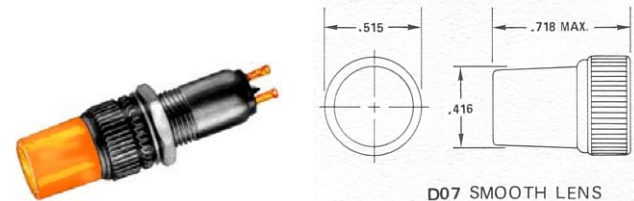
D15 COLLAR

The D15 is a new trim style collar for the DHN or DHO holders. The collar securely Retains all CF, CG or CR series C-lite Cartridges.



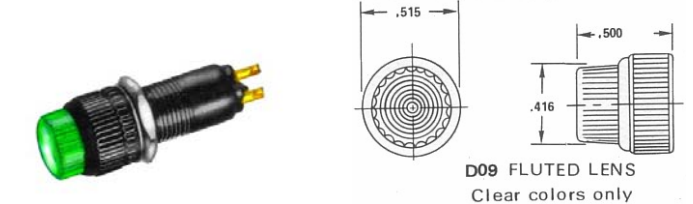
D06 SMOOTH LENS

The D06 lens caps rotate so lens marking may Be aligned after installation. These caps mate With the CF03, CG03, CR03, and CF24 style C-lite. The D06 meets MIL—3661, type LC32.



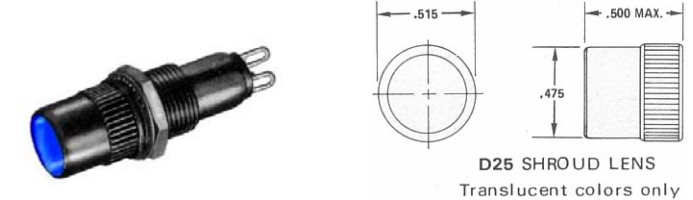
D07 SMOOTH LENS

The D07 lens will rotate to align lens marking. The long cap mates with the CF, CG, and CR Cartridges with the dome and long flat shapes.



D09 FLUTED LENS
Clear colors only

The D09 fluted lens caps mate with CF03,CG03, CR03, CD 03, CD93 and CF24 style C-lites. These caps are available in clear lens colors only. The D09 meets MIL-L-3661 type LC30.



D25 SHROUD LENS
Translucent colors only

The **D25** is a full shroud lens with end on viewing only. The **D25** comes in translucent Colors only and mates with the **CF03** and **CF24** C-lite incandescent cartridges.



DHO -10B HOLDER ONLY WITH CF03-C-LITE
FOR FLUSH PANEL MOUNTING

HOLDER	LENS CAP	O.A.L	MAX. PANEL
DHO or DHN	D06 or D09	1.57 MAX.	.250
DHO or DHN	D07	1.78 MAX.	.250
DHO	D 14 or	1.28 MAX.	.190
DHN	D15	1.29 MAX.	.250
DHO or DHN	D 15	1.57 MAX.	.250
DHO	D 25	1.20 MAX.	.290
	NONE		

ELDEMA DH SERIES SINGLE LAMP HOLDERS

TYPE DHO-REAR MOUNTING, 3/8" HOLE

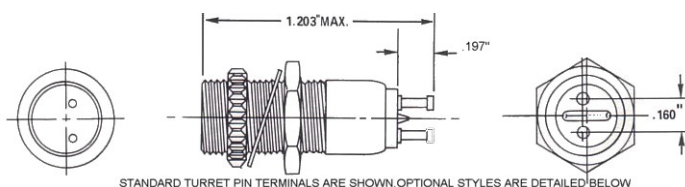
The **DHO** rear mounting single lampholders are available in three terminal configuration styles - turret pin, solder cup and solder lug. The complete assembly consists of the **DH** lampholder and the **D** series cap (or collar).



DH series Lampholders mate with CG or CR Neon, CF incandescent C-lite And CD -LED's

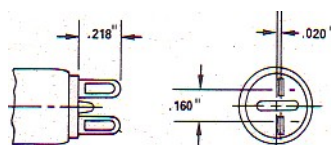
TERMINAL PIN POSITION MATCHES
STANDARD C-LITE LENS MARKING
ORIENTATION. SOLDER LUG TERMINALS
AS SHOWN BELOW HAVE THIS INTERNAL
POSITION.

DHO REAR MOUNTING LAMP HOLDER

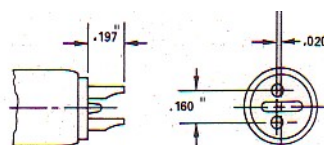


STANDARD TURRET PIN TERMINALS ARE SHOWN. OPTIONAL STYLES ARE DETAILED BELOW

OPTIONAL TERMINAL STYLE AVAILABLE ON ALL SINGLE LAMP HOLDER STYLES



SOLDER LUG TERMINALS



SOLDER CUP TERMINALS .042 DIA. HOLE IN END

	DH SINGLE LAMP HOLDER				D SERIES LENS CAP		
	STYLE	TERMINAL	FEATURES	FINISH	STYLE	FINISH	LENS COLORS
ORDERING INFORMATION DH series lampholders may be ordered Separately or as complete assemblies. formulate the part number using the Table at right. EXAMPLE DHO-10B-D06BRC: Assembly DHO-10B: Lampholder only D06BRC : Lens cap only PART MARKING: Part marking includes Eldema and the Lampholder number (ELDEMA DHO-10B). Complete assembly numbers are not Marked since the lens caps or collars Can be removed and changed. MILITARY PART NUMBERS Eldema lampholders DHO-11B meets LH90/2 and lampholders with collar DHO-11B-D14B meets LH90/1.	DHO Rear Mount	1 Turret Pin	0 standard Mounting	B Black Anodize	D06 Smooth Lens	B Black Anodize	Translucent AT- Amber BT- Blue GT- Green RT- Red WT- White YT- Yellow
		3 Solder Cup	1 Anti-Rotational Mounting	S Clear Anodize	D07 Smooth Lens	S Clear Anodize	
		6 Solder lug		Y Yellow Chromate	D09 Fluted Lens D25 Shroud Lens D 14* Collar D 15* Collar		Clear AC- Amber BC- Blue CC- Cloudy+ GC- Green RC- Red + WC- Water + YC- Yellow +
		* No lens color callout for D14 or D15 collar. + these colors recommended for neon C – LITES.					



ELDEMA DL AND DM SERIES SINGLE LAMP HOLDERS

TYPE DLO-REAR MOUNTING, 3/8" HOLE
TYPE DMO-REAR MOUNTING, 3/8" HOLE



DLO30B - D06BGC

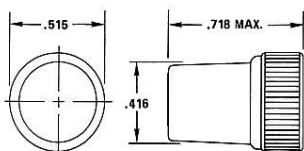


DMO10B - D06BAC

The DL and DM series lamp holders are designed primarily to accommodate the longer high voltage.
The DL and DM are Identical to the DHO types except for the longer lengths and use the same lens cap.

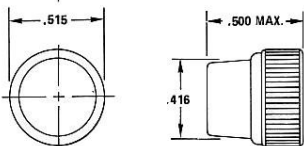
D07

Smooth lens



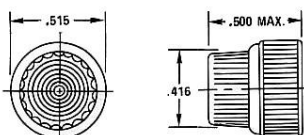
D06

Smooth lens



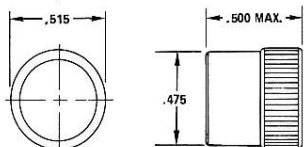
D09

Fluted lens
Clear colors
Only

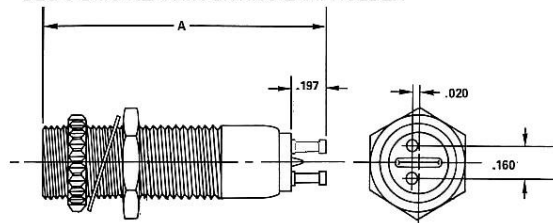


D25

Shroud lens
translucent colors only

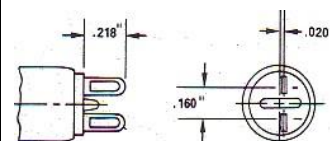


DLO & DMO REAR MOUNTING LAMP HOLDER

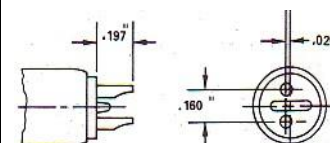


STANDARD TURRET PIN
TERMINALS ARE SHOWN

OPTIONAL TERMINAL STYLE



SOLDER LUG TERMINALS



SOLDER CUP TERMINALS
.042 DIA. HOLE IN END

TYPE	DIM. A	MAX. PANEL
DLO	1.42 Max	.440"
DMO	1.70 Max	.570"
Rear mounting lamp holder .380" Clearance hole		

ORDERING INFORMATION

DL and DM SERIES lampholders may be ordered separately or as complete Assembly. Formulate the part number using the table at the right.

EXAMPLE PART NUMBERS

DLO10B - D06BGT Assembly
DLO10B Lampholder Only
D06BGT Lens Cap only

DL AND DM LAMP HOLDERS

D SERIES LENS CAPS

STYL E	TERMI NAL	MOUNTI NG	FINISH	STYL E	FINISH	LENS CO LOR
DLO Rear Mount	1 Turret Pin	0 Standard Mounting	B - Black Anodize	D06 Smooth lens	B - Black Anodize	Translucent AT - Amber BT - Blue GC - Green RT - Red WT - White YT - Yellow
	3 Solder Cup	1 Anti Rotational Mounting (Available as an option on Front mount Holders only)	S - Clear Anodized	D07 Smooth lens	S - Clear Anodized	
	6 Solder Lug		Y - Yellow Chromate	D25 Shroud lens	Y -Yellow Chromate	
DMO Rear Mount						Clear AC - Amber BC - Blue CC - Cloudy GC - Green RC - Red WC - Water YC - Yellow

OVER ALL LENGTH WITH
LENS CAPS INSTALLED

MATING
C- LITES

DLO
With D06 or D09 1.78 MAX.
With D07 1.98 MAX.
With D25 1.78 MAX.

DMO
With D06 or D09 2.07 MAX.
With D25 2.07 MAX.

CL 24
CM12
CL24

Any
CL / CQ
Any CM

PART MARKING: ELDEMA and the lampholder number (ELDEMA DLO10B)

Eldema lampholder DLO11B meets MIL - L - 3661, Type LH90/3

ELDEMA RFI/EMI SHIELDED D-HOLDERS

RFI/EMI shielding of D-holders is accomplished by the use of a wire mesh captured within the lens cap that makes a contact through the conductive threads to the lampholder body and is subsequently grounded to the panel. This is done by plating the lampholder body with a conductive yellow chromate finish. A special lens bushing is used (and the knurled ring on the rear mounting holders) which has the internal threads also plated with the conductive yellow chromate and the external surfaces black or clear anodized. Viewed from the front of the panel, the external metal portions of the D-holders assembly have an anodized finish and at the same time a conductive path effectively grounding the mesh to the panel is maintained.



DHO10Y - D84SAC



DHO10Y - D87SGC

The D-holders ground to either or both sides of the panel and the contacts through the threads insures no loss of shielding even if the lens cap is partially unscrewed. Anti-rotational optional mounting is only available on front mounting holders- the flat on the threads provides a leakage path past the hardware on the rear-mounting holders. Details on test results of these assemblies, with attenuation in excess of 100 db, are shown in the Eldema RFI/EMI shielded indicator lite technical bulletin.

The lens caps are similar in appearance to the standard non-shielded types, however lens marking is not recommended since they do not rotate. The wire mesh is stainless steel.

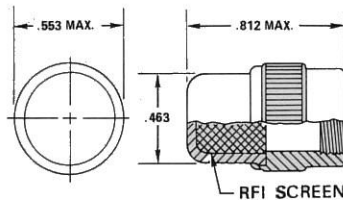


DHO10Y - D86SGC



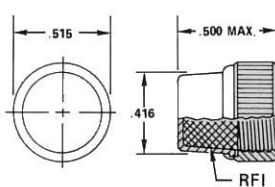
DHO60B - D86BCC

The shielded single lamp holders are identical to the standard lamp holders in all respects except for the chromate plating per Mil-C-5541 instead of an anodized finish.



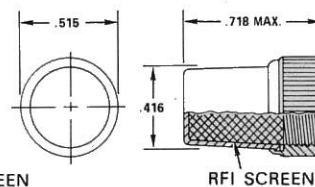
D84

LONG SEMI - SHROUD
Use with same C - lites as
Standard D06 or D07 lens cap



D86

STANDARD SMOOTH LENS
Use with same C - lites as
standard D06 lens cap



D87

LONG SMOOTH LENS
Use with same C - lites as
standard D07 lens cap

ORDERING INFORMATION

Formulate the part number using the Table at right.

EXAMPL PART NUMBER

DHO10Y - D86BRT Assembly
DHO10Y Lampholder only
D86BRT Lens cap only

PART MARKING

Part marking includes Eldema and the Lampholder number.

The front mounting holders are available in the "Y" finish only. Extra ring nuts for the rear mounting holders may be ordered as follows:

Z-141-10003-012 - Black anodize knurl gold chromate threads.

Z-141-10003-013- Clear anodize knurl gold chromate threads.

RFI/EMI SPECIAL FINISH D - HOLDERS				RFI/EMI D - LENS CAPS		
Style	Terminals	features	Finish	Style	Finish	Colors
DHO	1	0	Y	D84	B Black anodized exterior on lens bushing	TRANSLUCENT AT - Amber BT - blue GT - Green RT - Red WT - white YT - Yellow
DLO	Turret Pin	Standard mounting	Yellow Chromate (Special Black ring Furnished on rear mount Holders)			
DMO	3 Solder Cup					
DNO	6 Solder Lug	1 Anti - Rotational Mounting (Available as an option on front mount holders only)	W Yellow Chromate (Special clear ring Furnished on rear mount Holders)	D86	S Clear Anodized (Exterior on Lens bushing)	CLEAR AC - Amber Clear BC - Blue CC - Cloudy GC - Green RC - Red WC - Water Clear YC - Yellow
				D87		

ELDEMA DH-SERIES ARRAY-LITES

TYPE DHP FOR PRESS-IN MOUNTING FROM THE FRONT OF PANEL
TYPE DHC FOR SWAGE-IN MOUNTING FROM THE REAR OF PANEL

For permanent installation requirements, two styles of single lampholders, the DHP and DHC, are available in the DH series that mate with the CF, CG, CD and CR Series C-lites. These lampholders are anodized aluminum with high dielectric insulation and the same terminal options available on the standard DH series lampholders.

The DHC and DHP are ideal for those installations where the array-lite assembly is not convenient to use, but where the built-in flush panel appearance is desirable.

The DHP type lampholders is designed for press fit mounting from the front of the panel into a .397" diameter hole in metal or plastic panels. The DHP may be placed with spacings between centers as close as 1/2" it may be ordered with either a black or clear anodized finish.

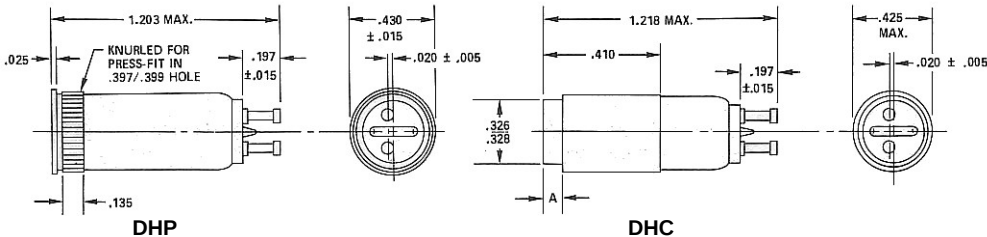
The DHC type lampholder is for swage-in installation from the rear of the panel. This lampholder is available to mate with various panel thicknesses.



DHP 15B
Press in Holder



DHC 63S
Swage – in Holder



DHC MOUNTING	
DIM. A	PANEL THICKNESS
0.095"	0.062"
0.125"	0.093"
0.160"	0.125"

ORDERING INFORMATION	STYLE	TERMINAL	MOUNTING	FINISH	STYLE	TERMINAL	MOUNTING	FINISH
Formulate the part number using the table at the right EXAMPLE PART NUMBERS DHP – 15B DHP – 12S PART MARKING Parts are marked with Eldema and The Part number	DHP Press– in Mounting Single Lamp Holder	1 Turret type 3 Solder Cup 6 Solder lug	5 Knurled for Press fit in .397" hole	B Black Anodize S Clear Anodize	DHC Swage-in Mounting Single Lamp Holder	1 Turret pin 3 Solder Cup 6 Solder Lug	2 .062" Panel 3 .093" Panel 4 .125" Panel	S Clear Anodize

Extra ring nuts for the lampholders may also be ordered as follows:

Part Number **Z-141-10003-010** Black Anodized Finish
Part Number **Z- 141-10003-011** Clear Anodized Finish

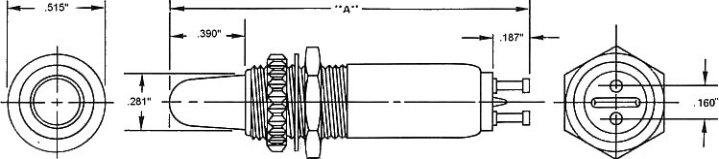
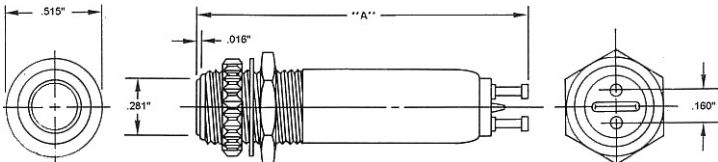
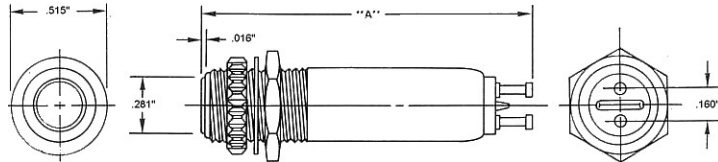
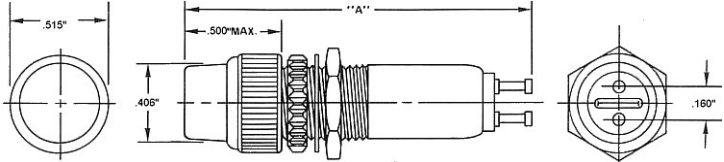
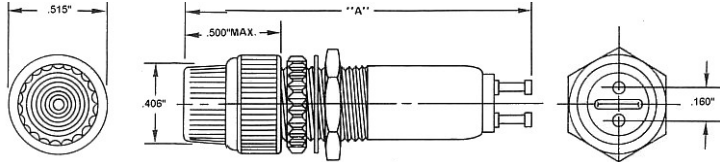


ELDEMA NEON E-LITES

EG SERIES- NEON LAMPS WITHOUT RESISTOR ER SERIES- NEON LAMPS WITH BUILT-IN RESISTOR

Eldema neon E-lites are permanent mounting indicators that are rugged and simple to install. Lamp life can easily be expected to extend beyond any necessity for replacement. E-lites have aluminum cases with either a black or clear anodized finish, high dielectric insulation and two tin plated turret terminals. The lenses are available in a choice of five colors and a variety of shapes for any display requirement.

Neon E-lites are ideal on applications for 110-125vac. The suggested lamp resistor combination fir this voltage is the high brightness NE2H type with 33K ohm which gives considerable brilliance and a life in excess of 25,000 hours, designated as N123 in the part number. The standard brilliance lamps- NE2E type- should normally be used in DC circuits where there is insufficient voltage for the high brightness lamps.

  DOMES LENS TYPE EG01/ER01	DIM. A EG01 1.41" MAX. Neon ER01 1.85" MAX Neon with Resistor .250" maximum Panel thickness
  FLUSH LENS TYPES EG01/ER02	DIM. A EG02 1.250" MAX. Neon ER02 1.68" MAX. Neon with Resistor .250 maximum Panel thickness
  SHORT FLAT LENS TYPES EG03/ER03	DIM. A EG03 1.406" MAX. Neon ER03 1.843" MAX. Neon with Resistor .250" maximum Panel thickness
  SMOOTH LENS TYPES EG06/ER06   FLUTED LENS TYPES EG19/ER19	DIM. A EG06 1.343" MAX. EG19 Neon ER06 1.781" MAX. ER19 Neon with Resistor .187" maximum Panel thickness

ELDEMA NEON E-LITES

ORDER INFORMATION

Formulate the part number using table at the right

EXAMPLE PART NUMBER

EG03-RCS-N120

ER03-WCS-N117

CHOICE OF LAMPS

High brightness lamps offer the best indication. They require 110-125 volts AC or 150 Volts DC for their operation. The current required is less than 2 MA with a 33K resistor in series with the lamp. The standard brightness lamps require less Than 0.7 MA current. They operate on a minimum Of 90 volts DC or 65 volts AC with a 100K resistor in series with the lamp.

CHOICE OF RESISTORS

The lower the resistor value the greater the Light output, but the life rating decreases. The Standard life ratings are the best compromise For most applications.

The last digit in the lamp/resistor number Designates the resistor value as follows: (EG types) 0- none; (ER type) 1-22K, 3-33K, 4-56K, 7-100K. other resistor values are available on special order.

RECOMMENDED RESISTOR VALUES

High brightness lamps

Standard life - 25,000 hours -33K

Medium life - 5,000 hours-22K

Standard Brightness Lamps

Standard life -25,000 hours -100K

Medium life -5,000 hour -56K

Life rating approximate and based on operation at 110 -125 volts AC

PART MARKING

Part marking on neon E – lites include Eldema, The E – lite series and the lamp number or the lamp/resistor number and resistor value.

EG SERIES NEON LAMP WITHOUT RESISTOR			
STYLE	LENS COLOR	FINISH	LAMP NUMBER
EG01 Dome	AC – Amber CC – Cloudy RC – Red WC – water Clear YC - Yellow	STANDARD B – Black anodize	N110 – Standard Brightness (NE2E Lamp)
EG02 Flush		OPTIONAL S – clear anodize	N120 – High Brightness (NE2H Lamp)
EG03 Short flat			
EG06 Smooth Cap			
ER19 Fluted Cap			
ER SERIES NEON WITH BUILT-RESISTOR			
STYLE	LENS COLOR	FINISH	LAMP / RESISTOR NUMBER
ER01 Dome	Same as above	Same as above	N114 – Standard Brightness Medium Life (NE2E – 56 K)
ER02 Flush			N117 – Standard Brightness Standard Life (NE2E – 100K)
ER03 Short Flat			N121 – High Brightness Medium Life (NE2H – 22K)
ER06 Smooth Cap			N123 – High Brightness Standard Life (NE2H – 33K)
ER19 Fluted Cap			

The lens colors are all clear (transparent) shades for maximum light output. Cloudy clear (CC) is the shade of white most suitable for neon lamps. Note That green or blue lens colors are not effective with neon glow lamps. Available with LED's on special order.

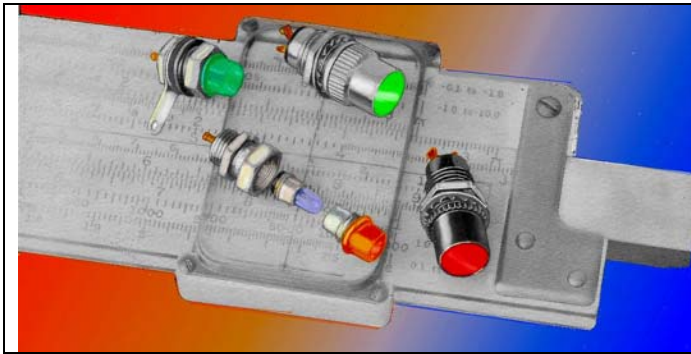
LENS MARKING



All Flat top Eldema neon E- LITES Lens Caps may be hot stamped. The smaller diameter (EG02/ER02, EG03/ER03) accommodate 2 characters, .109" high. The large lens caps (EG06/ER06) accommodate: 3 characters, .109" high. Note also that that the large diameter screw-on lens cap are designed to rotate to Align the lens marking after installation. The EG19/ER19 fluted lenses are not Recommended for lens marking.

ELDEMA H-LITES

TYPE HLA, HLS, HLB, HLC, AND HLD INDICATOR LIGHTS

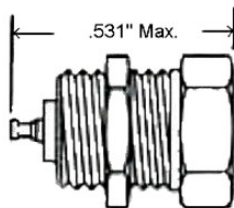


The H-Lite series provides a highly reliable indicator light assembly that requires a minimum of panel space. These units use the T-1 flange-based lamps- and both lamps and lens caps are replaceable from the front of the panel without any special tools.

H-LITES allow the designer a number of mounting configurations and a choice of lens styles, colors and metal finishes. H-LITES are attractive, easy to install, and meet applicable military requirements of MIL-L3661

Other H-LITE series features are optional water tight and RFI shielded models.

Fig. 1
HLA Hex fixed Flange



Part Number
HLA1010

Finish
Bright Nickel

Mating lens caps fig's 8,10



HLA – 1010 – HL230GT

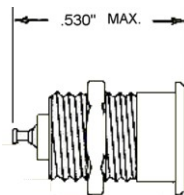


HLA – 3010 –HL230AT

HLA – LAMPHOLDER

Single terminal front mount lampholder case grounded to panel.
Hex or round flange – bright nickel finish .250" mounting hole .359" centers panel up to .250" thick with round flange; .203" with hex flange.

Fig 2
HLA, ROUND FIXED FLANGE



Part Number
HLA3010

finish
Bright Nickel

Mating lens Caps Fig. 9 &10



HLB – 1010 – HL 321RT

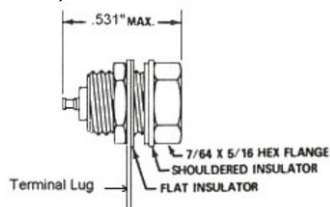


HLB – 1010 – HL230BT

HLB- LAMPHOLDER

Two terminal style front mount lampholder washers isolate case from panel
lug terminal grounded to case hex or round flange-bright nickel finish .312" mounting hole-.375" centers Panels up to .203" thick with round flange .156" with hex flange.

Fig. 3
HLB, HEX NUT FIXED FLANGE



Part Number
HLB1010

Finish
Bright Nickel

Mating lens Caps Fig. 9 & 11

MATERIALS

Case: brass, nickel – plated

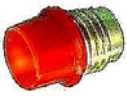
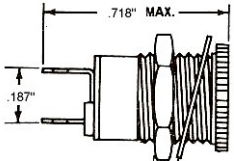
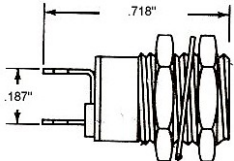
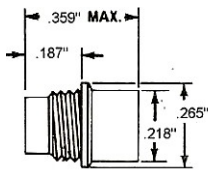
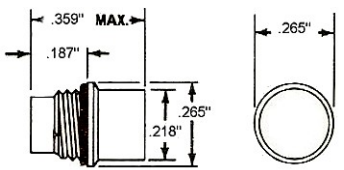
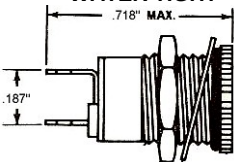
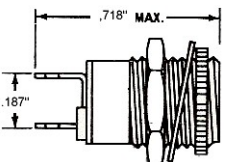
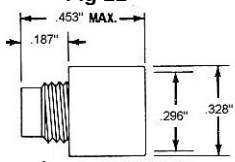
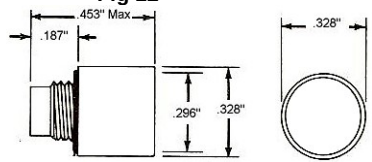
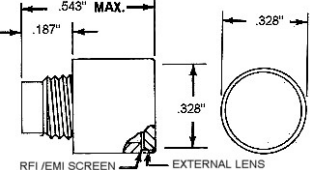
Mounting Hardware: Brass, nickel plated

Center Terminal: Brass, Gold plated

Rear insulator: High dielectric plastic

The HLB is the same as HLA plus lug – brass, tin plated
Shoulder Insulator - black nylon
Flat insulator – high dielectric phenolic.

The H-Lite series provides a highly reliable indicator light assembly that requires a minimum of panel space. These units use the T-1 flange- based lamps and both lamps and lens caps are replaceable from the front of the panel without any special tools. H-LITES allow the designer a number of mounting configurations and a choice of lens styles, colors and metal finishes. H-LITES are attractive, Easy to install, and meet applicable military requirements. Other H-LITE series features are optional water tight and RFI shielded models.

 		 			
HLC - 2220 - HL722GT HLC - 2020 - HL230YT		HLD - 1010 - HL321BT HLD - 2010 - HL230WC		HL 230RT	HL321GT
HLC-LAMPHOLDER Two terminal front mount Lampholder Terminals isolated from case and panel Fixed knurled flange-water tight optional Bright or black nickel finish. .312" mounting hole-.562" centers panels up to .250" thick		HLD LAMPHOLDERS Two terminal front or rear mount Lampholder terminal isolated from case and panel Hex nut or knurled ring movable flange Bright or black nickel finish. .312" mounting hole - .562" centers panel up to .234" thick.		All plastic style For wide angle viewing	Shroud style For end-on view
FIG. 5 HLC, KNURLED FIXED FLANGE 		FIG. 7 HLD, TWO HEX NUTS 		ALL PLASTIC STYLES Fig 9  Standard HL230XX	
Part Number Finish HLC - 2010 Bright Nickel HLC - 202 Black Nickel		Part number Finish HLD - 1010 Bright nickel HLD - 1020 Black nickel		Fig. 10  Water tight HL430XX	
Mating lens Caps , Fig. 9, 11, 13		Mating lens caps, Fig. 9,11,13			
Fig. 6 HLC, KNURLED FIXED FLANGE WATER TIGHT 		Fig. 8 HLD, RING AND HEX NUT 		SHROUD TYPE Fig 11  Standard	
Part Number Finish HLC - 2210 Bright Nickel HLC - 2220 Black Nickel		Part Number Finish HLD - 2010 Bright Nickel HLD - 2020 Black Nickel		Fig 12  Water tight	
Mating Lens Caps, Fig. 10, 12		Mating lens caps fig. 9, 11, 13		Part number HL321XX HL322XX	finish Bright nickel Black Nickel
Fig. 13  RFI /EMI SCREEN EXTERNAL LENS RFI SHIELDED STYLE		ORDERING INFORMATION HL series Lampholders and lens caps may be ordered separately or as a complete assembly			
Part Number Finish HL821XX Bright Nickel HL822XX Black Nickel Bi-color HL921XX Bright Nickel HI922XX Black Nickel		EXAMPLE PART NUMBERS Holder part number Lens style Lens color HLA1010 HL230 RT HLA 1010-HL230RT: Assembly HLA 1010: Lampholder HL230RT: Lens style & color			
MATERIALS Meets the applicable requirements of MIL-L-3661 Case: Brass, Nickel plated Insulation: high dielectric plastic Terminals: bras, gold plated		LENS COLORS STANDARD COLORS AT - Amber translucent BT - Blue Translucent GT - Green Translucent RT - Red Translucent YT - Yellow Translucent WT - White Translucent CC - Cloudy Clear WC - Water Clear BI-COLORS AW - Amber/ White BW - Blue/ white GW - Green/ White RW - Red/ White			

ELDEMA H-LITES TYPE HLE



The HLE assemblies consist of three parts-a lamphousing, a HL230 lens cap, and a screw-on shroud lens cap that goes Over the HL230. The HL230 is used to retain the lamp bulb. It may also be a color filter for bi-color effects when used with a white translucent shroud lens cap. The HLE and screw-on cap give positive conductive contact through the threads for RF shielding. This contact allows the unit to be both RFI shielded and water-tight. The HLE requires approximately .125" less space behind the panel than the HLC or HLD styles.

GENERAL DESCRIPTION

HLE LAMPHOLDER

Two terminal front mounting lamphousing. Terminals isolated from case and panel. Bright or black nickel finish. .312" mounting hole; .962" centers. Panels up to .187" thick; .156" on water Tight styles. Meets the applicable requirements of Mil-L-3661.

HLE LENS CAPS

Screw on shroud style choice of finished and lens color may be RFI shielded.

ORDERING INFORMATON

The HLE indicator lite consists of three parts and each must be ordered to make the complete assembly.

The text below and the two examples show how the HLE may be Assembled as a standard or as a bi-color indicator lite depending Upon the lens color chosen.

EXAMPLE

(Bi-color) (Red)

(STANDARD)

HLE-3010

HL230WC

HL351RT

Lamphousing

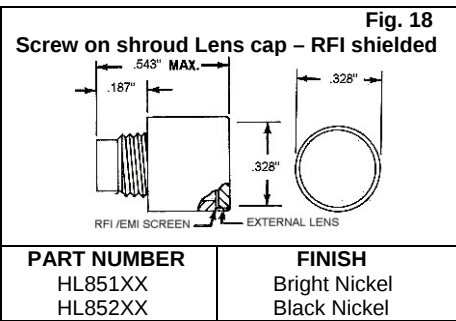
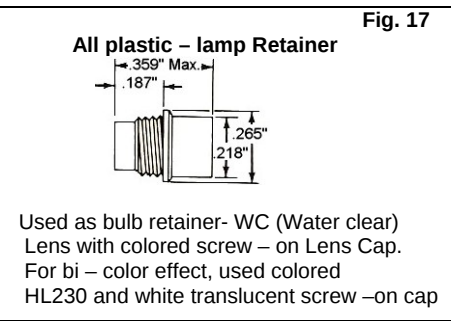
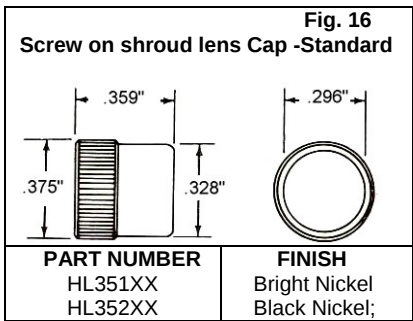
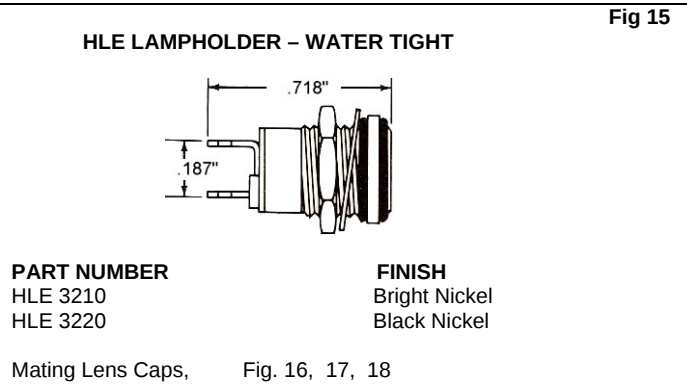
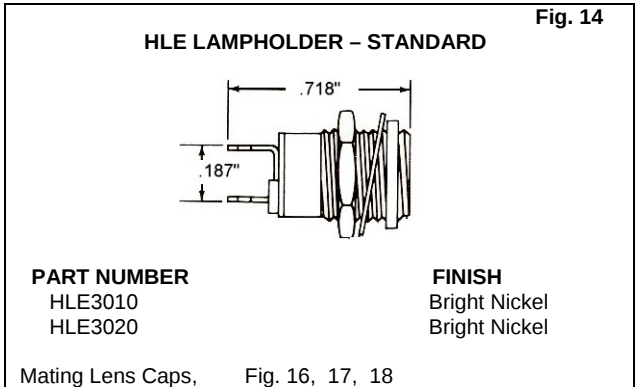
Lamp Retainer

Lens Cap

HLE-3010

HL230RT

HL351WT



LAMP TABLE T – 1 FLANGE BASE	LAMP #	VOLTAGE	CURRENT (MA)	LIFE HOURS	CANDLE POWER	TERMINAL DETAIL
Sub – Miniature Incandescent lamp	682	5.0	100	100M	.03	The HLC,HLD & HLE type lampholders Have two turret style terminals.
	685	5.0	60	100M	.05	
	714	5.0	75	25M	.08	
	718	5.0	115	40M	.13	
	7240	10.0	27	10M	.10	
	32	12.0	60	16M	.13	
	7241	18.0	26	13M	.13	
	6839	28.0	24	16M	.13	

ELDEMA SOLID STATE J-LITES

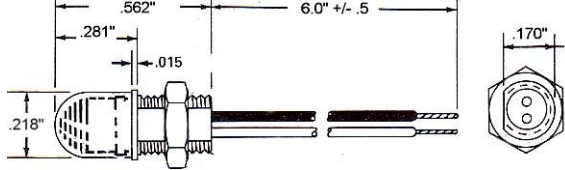
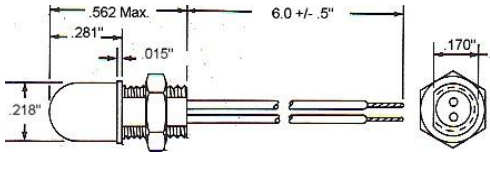
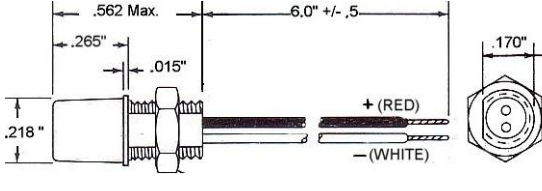
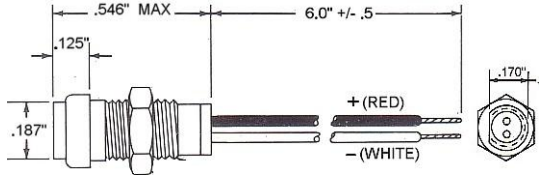
JD & JS SERIES



Eldema solid state J- lites are permanent mounting sub-miniature Indicators. The lamps are gallium phosphide electroluminescent Diodes. Their extremely long life, high reliability, resistance to shock and vibration and simple trouble free installation give them wide application potential. Color coded insulated lead wires are provided for positive anode identification. The lamp is designed to operate at a forward voltage of a nominal 2.1 volts D.C. for other voltages external resistance must be supplied.

WIRE LEADS

All J – lites are supplied with 6" insulated wire leads

SERIES JD Commercial and MIL Specs Materials  Style 330 Fresnel Dome																																									
SERIES JD Commercial and Mil spec Materials  Style 210 Dome																																									
SERIES JD Commercial Styles and Mil Spec Materials  Style 220 Flat Top																																									
SERIES JS Commercial Styles only  Style 230 low profile																																									
ORDERING INFORMATION Formulate the part number using the table at the right EXAMPLE PART NUMBER JD9151-001-330RC LENS STYLE AND COLOR J-Lites offer a choice of dome ,Fresnel Dome, flat top or low profile lens shapes. WIRE LEADS All J-Lites are supplied with 6" insulated wire leads. Special leads lengths are available. Specify in detail when ordering. Lead wires are color coded RED - Positive White - Negative	JD SERIES JD8111 (Commercial) JD 9151 (Mil Spec Materials) JS SERIES JS 70B1 (Black finish) JS 70S1 Bright finish	LAMP INFORMATION <table><tr><th>Lamp No.</th><th>VOLTS</th><th>Current (MA)</th><th>External Resistor Required</th></tr><tr><td rowspan="5">001</td><td>5</td><td>10</td><td>330 Ohms</td></tr><tr><td>6</td><td>10</td><td>390 Ohms</td></tr><tr><td>10</td><td>10</td><td>820 Ohms</td></tr><tr><td>12</td><td>10</td><td>1 K Ohm</td></tr><tr><td>28</td><td>10</td><td>2.75 K Ohm</td></tr></table>				Lamp No.	VOLTS	Current (MA)	External Resistor Required	001	5	10	330 Ohms	6	10	390 Ohms	10	10	820 Ohms	12	10	1 K Ohm	28	10	2.75 K Ohm	LENS INFORMATION <table><tr><th>STYLE</th><th>COLOR</th></tr><tr><td rowspan="2">210 Dome</td><td>Clear colors Only</td></tr><tr><td>AC- Amber</td></tr><tr><td rowspan="2">220 Flat top</td><td>CC- Cloudy</td></tr><tr><td>RC- Red</td></tr><tr><td rowspan="3">330 Fresnel</td><td>WC- Water</td></tr><tr><td>GC- green</td></tr><tr><td>BC- blue</td></tr><tr><td></td><td>YC- yellow</td></tr></table>		STYLE	COLOR	210 Dome	Clear colors Only	AC- Amber	220 Flat top	CC- Cloudy	RC- Red	330 Fresnel	WC- Water	GC- green	BC- blue		YC- yellow
	Lamp No.	VOLTS	Current (MA)	External Resistor Required																																					
	001	5	10	330 Ohms																																					
		6	10	390 Ohms																																					
		10	10	820 Ohms																																					
		12	10	1 K Ohm																																					
		28	10	2.75 K Ohm																																					
	STYLE	COLOR																																							
210 Dome	Clear colors Only																																								
	AC- Amber																																								
220 Flat top	CC- Cloudy																																								
	RC- Red																																								
330 Fresnel	WC- Water																																								
	GC- green																																								
	BC- blue																																								
	YC- yellow																																								
	Same as above				STYLE 230 Low profile	COLOR Same as above																																			



ELDEMA J- LITES



SERIES JK AND JL- STANDARD MODELS

SERIES JM AND JN- RFI/EMI SHIELDED

Eldema J-lites are permanent mounting indicators with built in long life T-1 lamps. Completely sealed to resist moisture and dust .meet the applicable requirements of MIL-I-6723 and MIL-L-3661.

They provide simple trouble free installation, mounting from the front of the panel. Two insulated lead wires are brought out for simple circuit connection.

Both military specification versions and commercial styles with a choice of body styles, lens shapes and colors are available. Series JM and JN units are RFI/EMI shielded. Shielding is grounded to the panel by the mounting hardware, forming an effective shield.

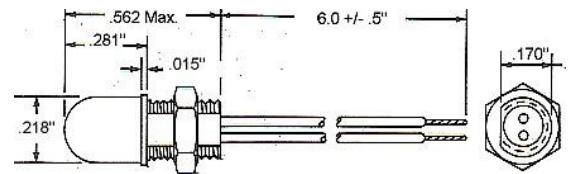
Panel mounting

Recommended panel mounting hole for military-type D-hole mounting viewed From the front panel. May be used only with units that have flat on housing (series JK and JM only)

SERIES K COMMERCIAL AND MILITARY STYLES



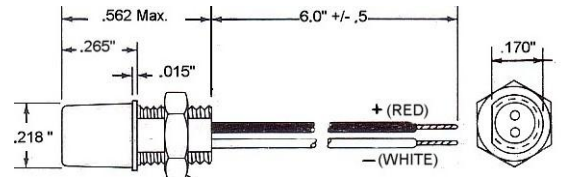
210 DOME



SERIES JK COMMERCIAL STYLE



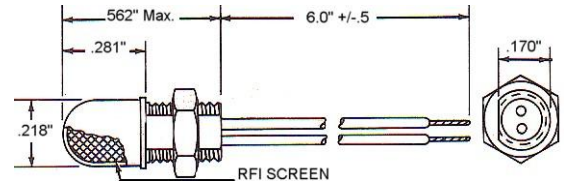
220 FLAT TOP



SERIES JM RFI/EMI SHIELDED



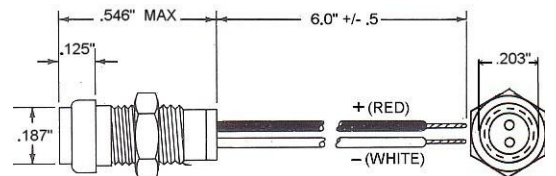
810 DOME



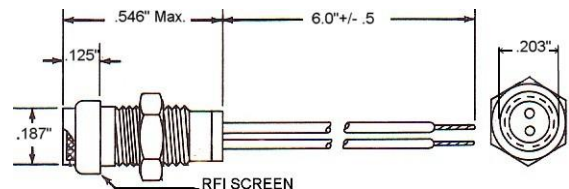
SERIES JL COMMERCIAL STYLES



230 LOW PROFILE



SERIES JN RFI/EMI SHIELDED



ELDEMA J – LITES

SERIES JK AND JL STANDARD MODELS SERIES JM AND JN RFI/EMI SHIELDED

ORDERING INFORMATION Formulate the part number using the table at the right EXAMPLE PART NUMBER <u>JK8111</u> - <u>050</u> - <u>210</u> <u>RT</u> Series lamp # lens style color INCANDESCENT LAMPS Incandescent lamps for 3 Volt through 28 Volt application are available. Specifications Listed in the lamp table are the manufacturing ratings and subject to the manufacturer's tolerance. Incandescent lamps are usually used with translucent colors. Flat top or low profile Lens shapes may be hot stamped. Clear Translucent colors may be used with all incandescent lamps listed. All J-lites are supplied with 6.0" insulated wires leads. Special lead lengths available. Specify in detail when ordering Eldema military J-lites meet the applicable requirements of MIL-L-3661 and MIL-L-6723	SERIES	LAMP				LENS STYLE	COLOR
	JK8111 (Commercial) JK9151 (Mil spec.)	Lamp #	Volts	Current (MA)	Life (hrs)	210 Dome 220 Flat top	STANDARD TRANSLUCENT AT- Amber BT- Blue GT- Green RT- Red WT- White YT- Yellow CLEAR (For low power lamps) AC - Amber BC- Blue CC - Cloudy RC - Red WC – Water YC - Yellow
		031	03	60	100,000		
		050	05	60	100,000		
		051	05	60	100,000		
		100	10	27	10,000		
		120	12	60	16,000		
		180	18	26	10,000		
		280	28	24	16,000		
	JL SERIES	LAMP #				LENS STYLE	COLOR
	JL70B1 (black Finish) JL70S1 (Bright Finish)	Same as above				230 Low profile	Same as above
	JM SERIES	LAMP #				LENS STYLE	COLOR
	JM9151 (RFI Shielded)	Same as above				810 Dome	Same as above
	JN SERIES	LAMP #				LENS STYLE	COLOR
	JN70Y1 (RFI Shielded)	Same as above				830 Low Profile	Same as above

MILITARY J-LITES Refer to the table at right for military part number listings. MIL-L-3661, revision B has been expanded to include both RFI/EMI shielded and none-shielded indicator lights and LHC type designations assigned. MIL-L-661 and MIL-L-6723. Specifications subject to change Without notice.	MILITARY PART NUMBERS			
	LHC PART NUMBER MIL – L - 3661	MS PART NUMBER MIL-L-6723	LENS COLOR	ELDEMA EQUIVALENT PART NUMBER
	LHC82/1BT2	MS25446-2	Blue Translucent	JK9151-050-210BT
	LHC82/1GT2	MS25446-3	Green Translucent	JK9151-050-210GT
	LHC82/1RT2	MS25446-4	Red Translucent	JK9151-050-210RT
	LHC82/1WT2	MS25446-5	White Translucent	JK9151-050-210WT
	LHC82/1YT2	MS25446-6	Amber Translucent (Yellow)	JK9151-050-210AT
	NONE	MS25446-7	Water Clear (transparent)	JK9151-050-210-WC
	LHC82/2BT2	NONE	Blue Translucent	JM9151-050-810BT
	LHC82/2GT2	NONE	Green Translucent	JM9151-050-810GT
	LHC82/2RT2	NONE	Red Translucent	JM9151-050-810RT
	LHC82/2WT2	NONE	White Translucent	JM9151-050-810WT
	LHC82/2YT2	NONE	Amber Translucent(Yellow)	JM9151-050-810AT

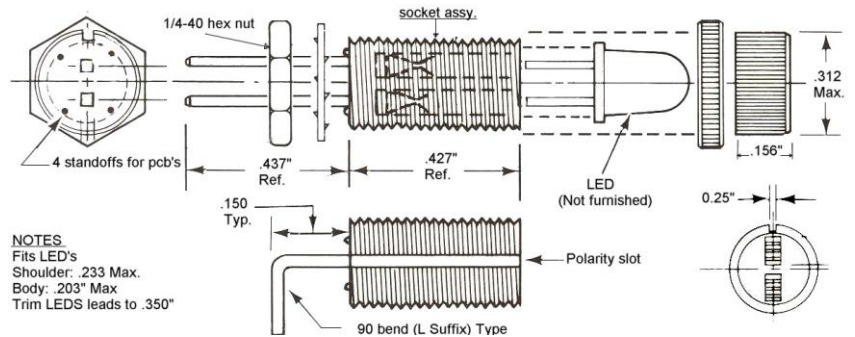


Eldema Q series are positive panel mounting for standard T 1-3/4 lamps. The Q084series is a low cost LED mounting assembly kit. The Q085 series is a complete LED indicator lite with flexible leads, available in all colors. The Q086 is a universally relampable LED socket assembly and is available with either in-line or 90° terminal. Its 0.025 square pins make it ideal for wire wrap or printed circuit board mounting. The Q series mounts in standard, none- critical 1/4 diameter holes in panels up to 0.187" thick, are attractive in appearance without additional bezels and are ideal for array designs.

Reduce your cost and simplify the installation of LED lamps with this unique Mountings, plug-in sockets and complete indicator lite assemblies. They are easily mounted from either panel front or rear through standard 1/4" holes (no critical tolerance). Lamps can be installed or replaced from the panel front. Their rugged and reliable construction, along with their design flexibility make these units ideal for applications where economy, ease of installation, Attractive appearance and dependability are prime considerations.

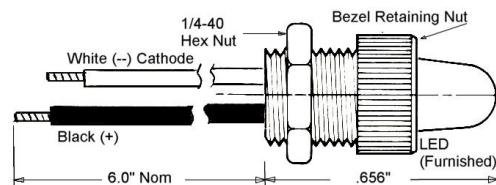
ORDERING INFORMATION

Series **Q086** - X X X
 Terminal Plating
 1= Tin
 2= Gold
 D = in line terminals
 L = 90 Bend terminals
 Bezel & retainer Nut finish
 2 = Silver
 3 = Black



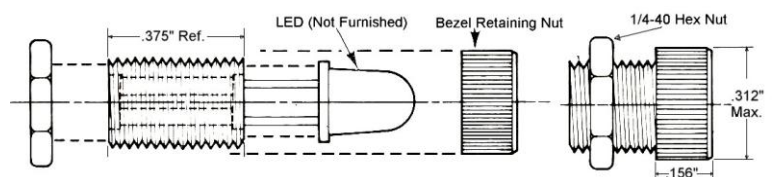
ORDERING INFORMATION

SERIES **Q085** - X X X - X06
 LED STYLE
 F= flat top
 D= Dome
 COLOR
 RC= Red clear
 RT= Red translucent
 BEZEL FINISH
 106= Silver
 206= Black



ORDERING INFORMATION

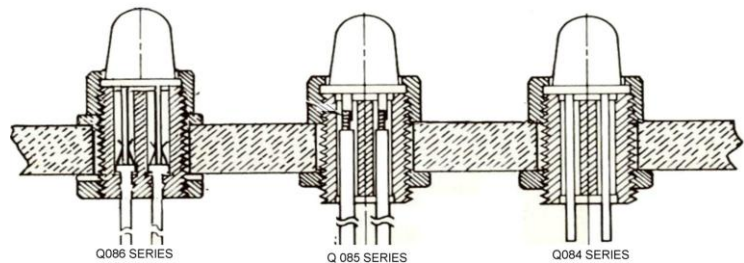
SERIES **Q084** - XD
 BEZEL FINISH
 2D= silver
 3D= Black



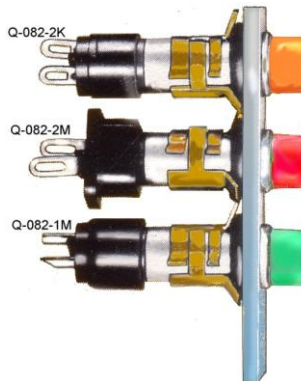
MATERIALS

Barrel Material: black Delrin
Bezel and retainer Nut: Black or silver plated brass
 Finish
Hardware: Brass plated

MOUNTING OPTIONS

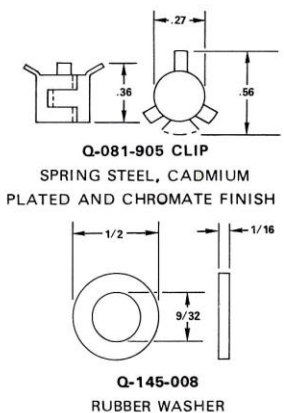
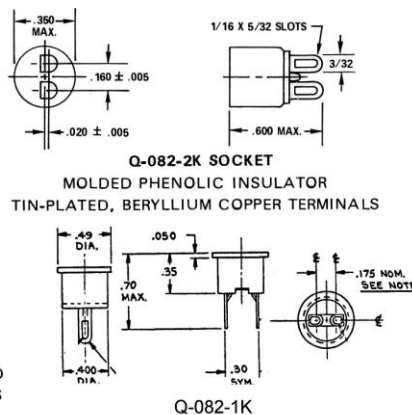
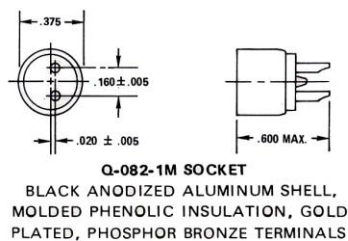


ELDEMA Q- SERIES CLIPS & SOCKETS



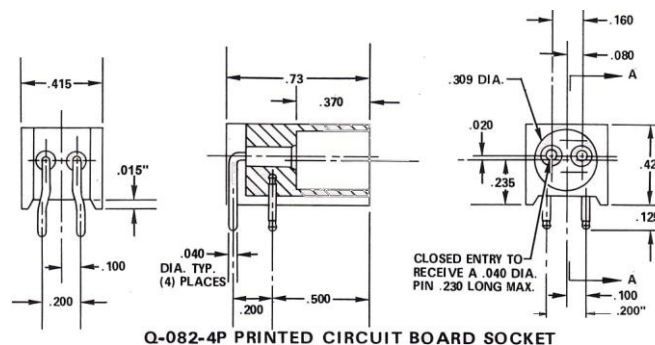
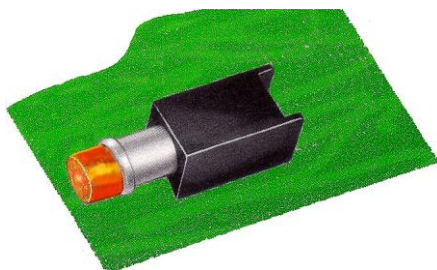
C-LITES MOUNTED WITH
Q-081-905 CLIP AND
Q-145-008 WASHER

The Q- Series Clip and Socket sets shown on this page provide inexpensive, convenient mounting of C-Lite cartridges. Access to both sides of the panel is required for installation and replacement of the lamp cartridge. The recommended optional use of the rubber gasket makes snug installation of the spring clip much simpler. Installation should be on metal panels whenever possible to increase heat conduction. The lower power incandescent, LED and the neon cartridges shown on the inside pages of this catalog should be used exclusively to reduce replacements and also because they generate less heat. Both solder lug and solder cup terminal type sockets are available. The ELDEMA socket Q-082-2K with the solder lug terminals is normally used in this type of installation and is the most popular. The Q-082-1K Socket is designed for commercial applications utilizing 2-pin G.E lamp bulbs. Mounting is accomplished with either the speed clip spring clip or spring clip shown. The terminals "float" slightly to accommodate variations in the center-to-center spacing of the 2 pins.



Q- 082-4P SOCKET

The ELDEMA Q-082-4P socket is for direct printed circuit boards installation. It is slightly raised at the pins to clear any Eyelets on to the board. The terminals are soldering – finished. The front two pins are mounting pins to assist in anchoring the part; the rear two are the lamp connections. Gold-plated spring loaded contacts inside the terminals at the connection point with the C-lite pins insure positive electrical connections. The molded phenolic socket body has a dielectric rating of 500 V RMS.



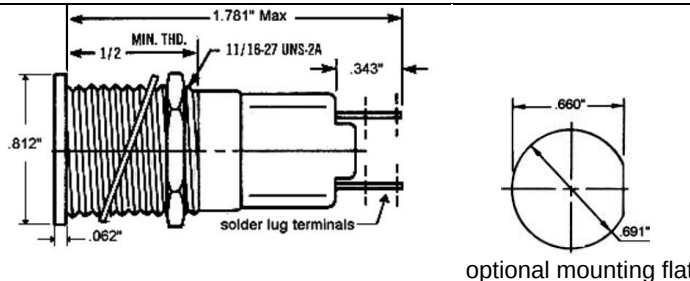
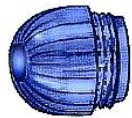
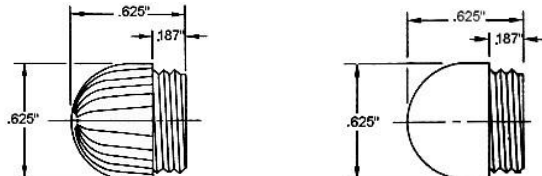
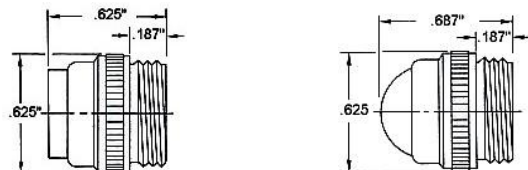
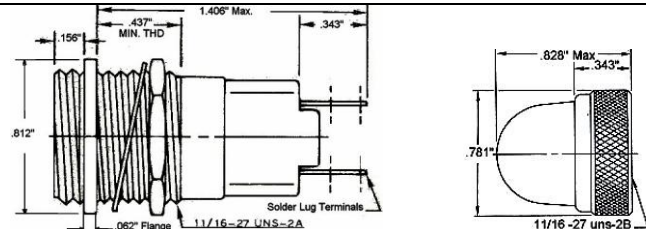
ELDEMA KA AND KC – SERIES



KAF, KC AND KAG SERIES FOR 11/16 CLEARANCE HOLE

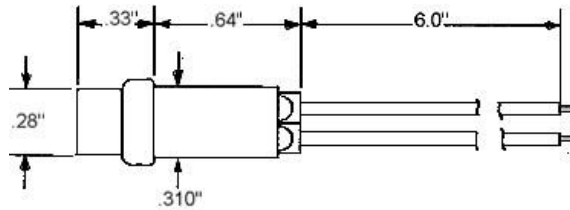
The Eldema K - Series indicator lites are designed to accommodate the T – 3-1/4 bayonet base incandescent, LED and neon lamps. Four basic types – KAF, KC for incandescent and LED – KAG,KG with resistor for neon. Front mounting in 11/16" clearance hole. It features rounded acrylic lenses for wide angle viewing, threaded for easy removal from bezel and easy bulb replacement from the panel front. Solder terminals. Complete with mounting nut and fiber washer.

A choice of two attractive finishes – bright nickel and black nickel
The lens caps are of clear, or diffusing shades in all colors

KA SERIES SCREW-IN LENS CAPS AND HOLDER  KAF-6020-KA130AC KAF-6010-KA223GC	 optional mounting flat															
 KA130BC KA120AC																
 KA243GC KA223AC																
KC SERIES SCREW-ON LENS CAPS AND HOLDERS  KCF-6220-KC213BC KC213AC																
ORDERING INFORMATION EXAMPLE Complete neon bulb assembly with 33 K ohm resistor KAG-6013 - KA120RC Lens cap only: KA120RC Holder only: KAG-6013 (neon) K A X -- 6 01 X SERIES BODY LENGHT (1.87) LAMP TYPE RESISTOR VALUE BODY FINISH TERMINAL STYLE	<table><tr><th>Style</th><th>Type</th><th>Lens Color</th><th>Body finish</th><th>Rsistor</th></tr><tr><td>KA</td><td>F Incandescent</td><td>RC- Red clear AC- Amber clear BC- Blue clear GC- Green clear WC-Water clear WT- White Translucent</td><td>01 Bright Nickel</td><td>3-33K ohm 7- 100 K ohm D-180 K ohm L-1.0 K ohm</td></tr><tr><td>KC</td><td>G Neon</td><td></td><td>02 Black Nickel</td><td>0- No resistor</td></tr></table>	Style	Type	Lens Color	Body finish	Rsistor	KA	F Incandescent	RC- Red clear AC- Amber clear BC- Blue clear GC- Green clear WC-Water clear WT- White Translucent	01 Bright Nickel	3-33K ohm 7- 100 K ohm D-180 K ohm L-1.0 K ohm	KC	G Neon		02 Black Nickel	0- No resistor
Style	Type	Lens Color	Body finish	Rsistor												
KA	F Incandescent	RC- Red clear AC- Amber clear BC- Blue clear GC- Green clear WC-Water clear WT- White Translucent	01 Bright Nickel	3-33K ohm 7- 100 K ohm D-180 K ohm L-1.0 K ohm												
KC	G Neon		02 Black Nickel	0- No resistor												

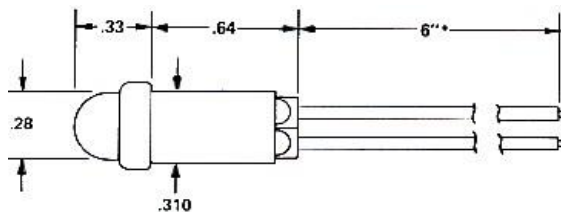


BD Series long-lasting, reliable LED illumination source indicator lites are easy to mount in **.316"** mounting holes with push-on retainer clips. They mount in a wide range of panel thickness and require a minimum of space behind the panel. Standard lead length is 6.0" other lengths available on special order.

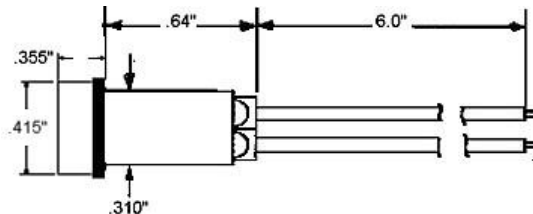


BD 93 SHORT FLAT

CLIP NO. 10650



BD13 DOME



BD09 WIDE SHORT FLAT TOP

ORDERING INFORMATION

To order Eldema solid state B-lites, refer to the table at the right and specify: Style, Lens shape, Lens color, Bezel finish and voltage

Example Part Number:
BD13-RCB -28VDC

MATERIALS

Lens – heat resistant plastic
Housing – Molded Nylon
Bezel – Aluminum alloy
Leads insulated AWG 24

STYLE LENS SHAPE

BD93
Short flat

BD 13
Dome

BD09
Wide short flat

LENS COLOR

RC – Red clear
AC – Amber clear
BC – Blue clear
YC – Yellow clear
WC – Water clear
GC – Green clear

RT - Red translucent
AT – Amber translucent
BT – Blue translucent
YT – Yellow translucent
WT – White translucent
GT – Green translucent

BEZEL FINISH

B
(Black)

S
(Silver)

VOLTAGE

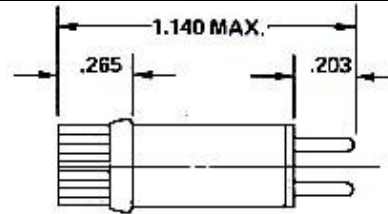
6.0/48 VDC

Other voltages
available
on special
order

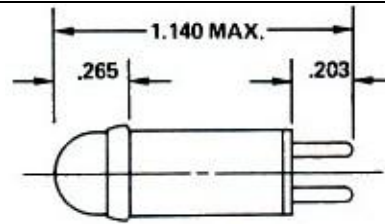


The Eldema solid state (LED) Mounted in the standard Eldema C-Lites package, they offer the versatility and And easy mounting of other Eldema cartridge lights. Their extremely long life, high reliability, resistance to Shock, vibration and catastrophic failure give them a wide application potential as visual indicator lights

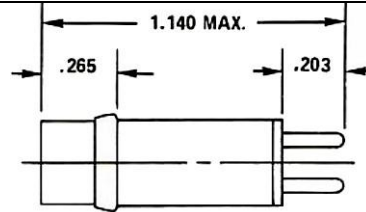
MATE WITH DH SERIES LAMPHOLDERS



CD 93 SHORT FLAT FLUTED LENS STYLE



CD 13 DOME LENS STYLE



CD 03 SHORT FLAT LENS STYLE

ORDERING INFORMATION

To order Eldema solid state CD-lites, refer to the table at the right and specify:
Style, Lens shape, Lens color, finish and voltage

Example Part Number:
CD93-RCB -28VDC

MATERIALS

Lens – High strength plastic
Housing – Anodized aluminum
Header – High dielectric Molded Nylon

Will meet or exceeds requirements of MIL-L-3661

STYLE LENS SHAPE

CD93
Short flat

CD 13
Dome

CD03
Short flat

LENS COLOR

RC – Red clear
AC – Amber clear
BC – Blue clear
YC – Yellow clear
WC – Water clear
GC – Green clear

RT - Red translucent
AT – Amber translucent
BT – Blue translucent
YT – Yellow translucent
WT – White translucent
GT – Green translucent

FINISH

B
(Black)

S
(Silver)

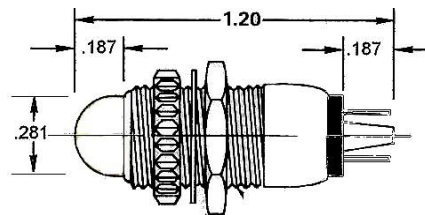
VOLTAGE

6.0/48 VDC

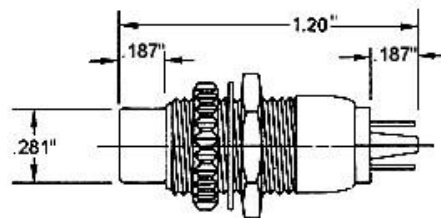
Other voltages
available
on special
order
including A/C
applications



ED Series long life and high reliability makes the solid state (LED) ideal for permanent mounting indicators. Solid state ED-Lites may be permanently Mounted in panels up to ¼ inch thick. ED-Lites have aluminum cases With either black or silver anodized finish, high dielectric insulation and tin plated terminals. Life can easily be expected to extend beyond any necessity for replacement.



ED13 DOME



ED93 SHORT FLAT

ORDERING INFORMATION	STYLE LENS SHAPE	LENS COLOR	FINISH	VOLTAGE
	ED93 Short flat ED 13 Dome	RC – Red clear AC – Amber clear BC – Blue clear YC – Yellow clear WC – Water clear GC – Green clear RT - Red translucent AT – Amber translucent BT – Blue translucent YT – Yellow translucent WT – White translucent GT – Green translucent Bi-color available on special Order	B (Black) S (Silver)	6.0/48 VDC Other voltages available on special order including A/C applications

To order Eldema solid state ED-lites, refer to the table at the right and specify: Style, Lens shape, Lens color, finish and voltage

Example Part Number:
ED13-RCB -28VDC

MATERIALS

Lens – High strength plastic
Housing – Anodized aluminum
Hex Nut – brass bright nickel plated
Terminals – brass tin plated

Will meet or exceeds requirements of MIL-L-3661

ELDEMA RIB – LOC SERIES

0.312" MOUNTING HOLE

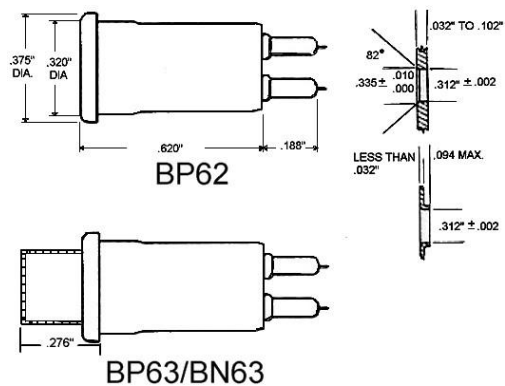


Rib – loc miniature panel indicator lites are low cost and simple to install from the front of the panel.

No mounting hardware is required. Their unique black polyamide molded "ribbed" case allows them to fit firmly when pressed into 0.312" punched holes. This along with a wide selection durable polycarbonate lenses in six colors (in both flush and flat top configurations) as well as Incandescent, Led and Neon lamp versions, makes these units a perfect choice for most any application where economy appearance and ease of installation are prime considerations.

ORDERING INFORMATION

B P 62 -- AC 1762 28DC
 SERIES TYPE LENS STYLE LENS COLOR LAMP VOLTS



	TYPE	LENS STYLE	LENS COLOR	LAMP	VOLTS	CURRENT AMPS.
B	P Incandescent	62 Flush	CLEAR AC- Amber BC- Blue GC- Green RC-Red WC- Water	INCAN- DESCENT		
				1784	6.0	.200
	N Neon	63 Flat Top		1730	6.0	.040
				1705	14.0	.080
				1762	28.0	.040
				2187	28.0	.040
	D LED			2182	14.0	.080
				2181	6.3	.200
				2180	6.3	.040
				NEON Requires 33K ohm resistor		
		</				



ELDEMA RA SERIES FOR 15/32" & 17/32" CLEARANCE HOLE



The RA Series lamp holders offers easy installation of lens caps And flange based T-1¼ incandescent lamp from the front of the panel without the use of special tools. The lamp-housing come in three mounting styles with a choice of finishes. Lens caps in a wide variety of shapes and colors are available.

- Finishes – Black Nickel, Bright Nickel
- Complete choice of lens colors both translucent and clear shades
- Electrically isolated from the panel – two terminal Housings

The RA Series meets the applicable requirements of MIL-L-3661 and MIL-I-6723

MATERIALS

Housing and lens shroud – Brass, Bright Nickel, Black Nickel

Lens – High strength plastic

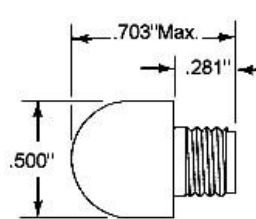
Hex Nut & lock washer – Brass, Bright Nickel

Insulator – High Dielectric Phenolic

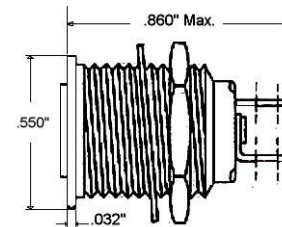
Terminals – Brass tin plated



RAA-6010-RA210RC



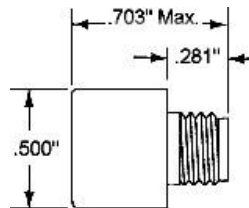
RA210 – Dome



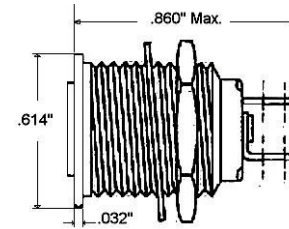
RAA Housing mounts from the front of the panel
In a 15/32" Diameter hole



RAB-6020-RA220GC



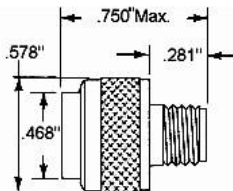
RA220 – Flat top



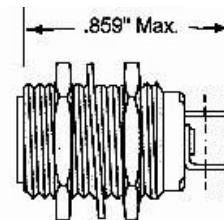
RAB Housing mounts from the front of the panel
In a 17/32 Diameter hole



RAC-6020-RA342AT



Rotating lens RA342



RAC Housing mounts from the front or rear
of the panel in a 17/32 diameter hole

RA SERIES ORDER INFORMATION

LAMP HOUSING

LENS CAP

RAA – 6010 – RA220RC

Style Finish Lens Style Lens Color

LAMP HOUSING

STYLE

RAA – 15/32" Front Mount
RAB – 17/32" Front Mount
RAC – 15/32 front or rear Mount

FINISH

6010 – Bright Nickel
6020 – Black Nickel

LENS CAP ASSEMBLIES

LENS STYLE

RA210 Dome
RA220 Flat top

RA341 semi-shroud
(Bright Nickel Finish)

RA342 semi-shroud
(Black Nickel Finish)

LENS COLOR

TRANSLUCENT

AT - Amber
BT - Blue
GT - Green
RT - Red
WT - White
YT - Yellow

CLEAR

AC - Amber
BC - Blue
GC - Green
RC - Red
WC - Water Clear
YC - Yellow

ELDEMA RL SERIES LAMP HOLDER

RLD REAR MOUNTING, 3/8" CLEARANCE HOLE, 1/8" PANEL
RLE REAR MOUNTING, 3/8" CLEARANCE HOLE, 3/16 PANEL
RLA FRONT MOUNTING, 15/32" CLEARANCE HOLE



The RL series single lamp holders provide a choice of either front or rear mounting Configuration to meet any installation requirements. The complete assembly consist of the RL lampholder and one of the several basic RL series lens cap styles. This lampholder group is available with either black or clear anodized finish and may May be furnished with gasket for water tight applications.

RL series lens caps accommodate either midjet flange based incandescent or neon Lamps. The lampholders are available with built-in resistor for neon lamp applications.

MATERIALS & SPECIFICATIONS

RL series meets or exceeds the applicable requirements of MIL-L-3661

Housing & knurled ring – Anodized aluminum per MIL-A-8625

Lamp socket & lens barrel – Nickel plated brass

Insulator - High Dielectric Phenolic

Hex nut & lock washer - Cadmium plated & Chromated Steel

Lens - Butyrate plastic

Terminal - Brass, tin plated with two elongated slots.

RLD60B0-RL090GC



RLD60S0-RL150WC



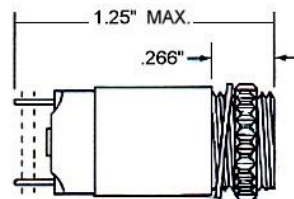
RLE60S0-RL130WC



RLE60S0-RL130RC

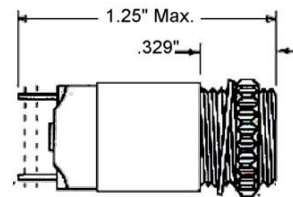


RLA62B0-RL170AC



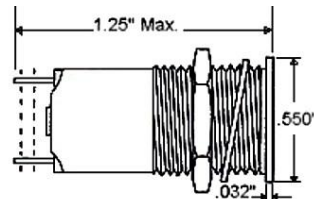
RLD Lamp Holder rear mounting 3/8 clearance hole

Mate with all RL series Lens caps



RLE Lamp holder rear mounting 3/8 clearance hole

Mate with all RL series Lens caps

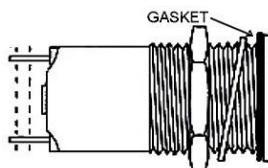


RLA Lamp holder front mounting 15/32 clearance hole

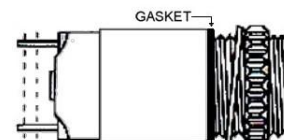
Mate with all RL series Lens caps



RL170 Water tight



RLA Water tight

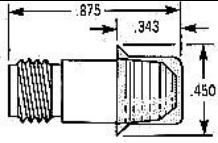
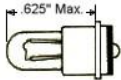
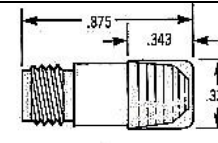
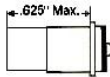
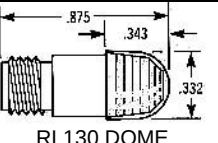
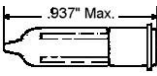


RLD/RLE Water tight

ELDEMA RL SERIES LENS CAPS

MATE WITH RL SINGLE LAMPHOLDERS

These lens caps mate with the RL series single lampholders. All of the three basic lens shapes are available with either a smooth face and back or internal Fresnel ring. The Fresnel ring lens cap is available in the clear (transparent) shades. The internal Fresnel Ring has a light diffusing effect that makes the output of neon lamps and low power incandescent lamps more brilliant and easier to see. The Fresnel effect actually breaks up the light output and diffuses it across the entire face of the lens cap. The smooth face and back Lens cap styles are normally supplied in translucent lens colors and are best used with the higher brilliance incandescent lamps. The uniform wall thickness gives even light distribution over the entire lens cap surface.

	 RL150 SKIRT	LAMP INFORMATION The RL series is designed to accommodate the midget flange based T1-1-3/4 Incandescent lamp or T-2 Neon lamps  T1-3/4 incandescent	T-1-3/4 INCANDESCENT LAMPS			MANUFACTURERS RATING			
	 RL090 FLAT TOP		 T1-3/4 LED (optional)	LAMP #	VOLTS	AMPS	HOURS	CANDLE POWER	
	 RL130 DOME		 T-2 Neon	331	1.35	.06	500	.006	
SMOOTH FACE STYLES  RL160 SKIRT  RL140 DOME  RL100 FLAT TOP			338	2.7	.06	500	.04		
			375	3.0	.015	20,000	.004		
			328	6.0	.20	1,000	.63		
			345	6.0	.04	1,000	.03		
			349	5.3	.20	3,000	.55		
WATERTIGHT STYLES  RL170 FRESNEL RING  RL180 SMOOTH FACE			380	6.3	.04	50,000	.02		
			381	6.3	.20	50,000	.40		
			344	10.0	.014	50,000	.002		
			367	10.0	.04	20,000	.08		
			330	14.0	.08	750	.50		
			382	14.0	.08	50,000	.30		
			370	18.0	.04	1,000	.15		
			327	28.0	.04	1,000	.34		
			387	28.0	.04	25,000	.30		
			T-2 NEON LAMP						
			LAMP NO.		CHARACTERISTICS				
			NE2J (C9A)		High brightness lamp for 110 VAC Applications. Use with 27K resistor				
			NE2D (C7A)		Medium brightness lamp for 90 VDC Application. Use 62K resistor.				
ORDERING INFORMATION			RL SERIES LAMPHOLDER				RL SERIES LENS CAPS		
Formulate the part number using the table at right PART NUMBER EXAMPLE RLA60B5-RL090WC Assembly RLA60B5 Lampholder only RL090WC Lens cap only Water tight version of RL series lampholders and lens caps are available. To order these parts specify water tight under the mounting designation in the Lampholder part number and specify either the smooth face or Fresnel ring style skirted lens with gasket as in the table for example, a complete water tight assembly part number: RLA62B0-RL170WC PART MARKING Part making includes Eldema and the lampholder number ELDEMA RLA 6085			Style	Terminal	Mounting	Finish	Resistor	Style	Colors
			RLA Front mount	6 Standard	0 Standard	Standard B Black Anodize	0 None	Fresnel ring RL090 Flat top	Clear
			RLD Rear Mount 1/8" Panel		2 Water tight	Optional S Silver Anodize	2 27K for use with NE2J (C9A) High brightness Neon Lamp 110 VAC	RL130 Dome	
			RLE Rear Mount 3/16" Panel				5 62K For use with NE2D (C7A) Medium Brightness Neon Lamps. 90 VDC	RL150 Skirted	
								RL170 Water tight	
					Smooth face RL100 Flat top				
						RL140 Dome	Translucent		
						RL 160 Skirted			
						RL 180 Water tight			



ELDEMA RM & RN SERIES FOR 15/32" CLEARANCE HOLE



R – Lites are Eldema's product family of relampable holders and lens caps for Midget flange based T- 1 ¾ incandescent and T-2 neon bulbs.

The lamps and lens caps are replaceable from the front of the panel. There are five R-Lites groups each with its own features - the holder and Lens cap part numbers in each group start with the same two letters to insure mating parts.

The **RM-RN** groups meet MIL-L-3661. The **RM** is for incandescent lamps - the **RN** Series with a built in resistor is for neon lamps.

Standard types **RMA** and **RNA** – water proof types **RMM**, **RNM** and **RNW** – two tin plated lug terminals – Black anodized aluminum case – High impact plastic lenses.

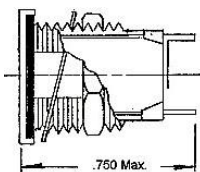
Mount from the front in .468" clearance hole. Equivalent Military numbers are listed.

	RM SERIES				LENS COLOR	MIL. TYPE	
RMA-64BO-RM120WC	HOLDER P/N			MIL. TYPE	AC	Amber Color	YN2
	RMA-64B0	Standard	-	LH73/1	BC	Blue Color	BN2
RMA-64BO-RM160GC		Black Finish			CC	Cloudy Clear	----
	RMM-63B0	Water proof	-	LH89/1	GC	Green Clear	GN2
RMM-63BO-RM130AC		Black finish			RC	Red Clear	RN2
					WC	Water Clear	----
RMA-64BO-RM22BAC					AT	Amber Translucent	YT2
					BT	Blue Translucent	BT2
					GT	Green Translucent	GT2
					RT	Red Translucent	RT2
					WT	White Translucent	WT2
					YT	Yellow Translucent	WT2

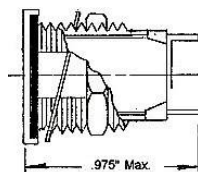
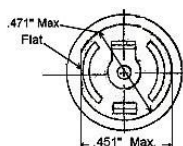
LENS CAP STYLE			
RM120	Dome	-	LC12
RM160	Flat top	-	LC29
RM130	Water proof dome	-	LC35
RM22B	Semi-Shroud	-	-----

SPECIFY HOLDER – LENS CAP STYLE AND LENS COLOR	
For Example:	
RMM-63BO-RM130RC is Eldema p/n	
LH89/1-LC35RN2 is Military p/n	
NOTE: RMA-64BO-RM120 also meets MS25256 Designate lens color.	

 RNA-64B5-RN120RC  RNM-63B5-RN130GT	RN SERIES <table border="1"> <thead> <tr> <th>HOLDERS P/N</th> <th></th> <th>MIL TYPE</th> </tr> </thead> <tbody> <tr> <td>RNA-64B5</td> <td>Standard - Black Finish with 62K ohm for NE2D Lamp</td> <td>LH74/1</td> </tr> <tr> <td>RNA-64B2</td> <td>Standard - Black finish with 27K ohm for NE2J Lamp</td> <td>LH74/2</td> </tr> <tr> <td>RNW-63B5</td> <td>Mil-Drawing 13214E1391 Black finish with 62K ohm for NE2D Lamp</td> <td>LH88/1</td> </tr> <tr> <td>RNM-63B2</td> <td>Waterproof - Black Finish with 27K ohm for NE2J Lamp</td> <td>LH88/2</td> </tr> </tbody> </table> LENS CAP STYLE <table border="1"> <tbody> <tr> <td>RN 120</td> <td>Dome</td> <td>LC13</td> </tr> <tr> <td>RN130</td> <td>Waterproof</td> <td>LC33</td> </tr> </tbody> </table>	HOLDERS P/N		MIL TYPE	RNA-64B5	Standard - Black Finish with 62K ohm for NE2D Lamp	LH74/1	RNA-64B2	Standard - Black finish with 27K ohm for NE2J Lamp	LH74/2	RNW-63B5	Mil-Drawing 13214E1391 Black finish with 62K ohm for NE2D Lamp	LH88/1	RNM-63B2	Waterproof - Black Finish with 27K ohm for NE2J Lamp	LH88/2	RN 120	Dome	LC13	RN130	Waterproof	LC33	<table border="1"> <thead> <tr> <th>LENS COLORS</th> <th></th> <th>MIL TYPE</th> </tr> </thead> <tbody> <tr> <td>AC-</td> <td>Amber Clear</td> <td>YN2</td> </tr> <tr> <td>CC-</td> <td>Cloudy Clear</td> <td>WT2</td> </tr> <tr> <td>RC-</td> <td>Red Clear</td> <td>RN2</td> </tr> <tr> <td>WC-</td> <td>Water Clear</td> <td>CN2</td> </tr> <tr> <td>YC-</td> <td>Yellow Clear</td> <td>----</td> </tr> </tbody> </table> SPECIFY HOLDER --- LENS CAP STYLE AND COLOR For Example: RNA-64B5-RN120RC is Eldema p/n LH74/1-LC13RN2 is Military p/n NOTE: RNA-64B5-RN120 also meets MS25257 Designate Lens Color.	LENS COLORS		MIL TYPE	AC-	Amber Clear	YN2	CC-	Cloudy Clear	WT2	RC-	Red Clear	RN2	WC-	Water Clear	CN2	YC-	Yellow Clear	----
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RM SERIES

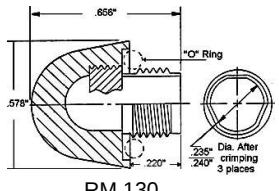
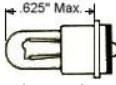
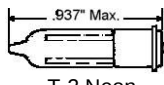


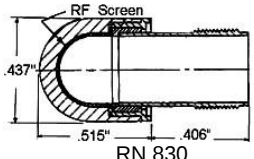
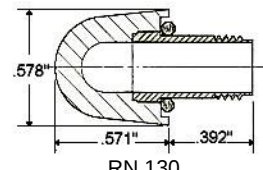
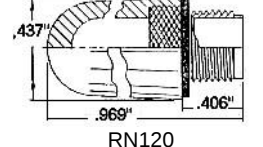
RN SERIES

ELDEMA RM & RN SERIES LENS CAPS

MATE WITH RM & RN SINGLE LAMPHOLDERS

These lens caps mate with the RM & RN series single lampholders. The holder and lens cap part numbers in each group start with the same two letters to insure mating parts. The RM lens cap is for incandescent lamps T-1 3/4 Midget flanged base the RN lens cap is for the T-2 Neon lamps. All the lens caps are crimped in three places to securely hold the lamp and easily removed from the front panel without any special tools.

 RM 130 AC	 RM 130	LAMP INFORMATION The RM series is designed to accommodate the midget flange based T1-1-3/4 Incandescent lamp or T1-3/4 LED  T1-3/4 incandescent  T1-3/4 LED (optional)  T-2 Neon	T-1-3/4 INCANDESCENT LAMPS			MANUFACTURERS RATING		
			LAMP #	VOLTS	AMPS	HOURS	CANDLE POWER	
			331	1.35	.06	500	.006	
			338	2.7	.06	500	.04	
			375	3.0	.015	20,000	.004	
			328	6.0	.20	1,000	.63	
			345	6.0	.04	1,000	.03	
			349	5.3	.20	3,000	.55	
			380	6.3	.04	50,000	.02	
			381	6.3	.20	50,000	.40	
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			330	14.0	.08	750	.50	
			382	14.0	.08	50,000	.30	
			370	18.0	.04	1,000	.15	
		327	28.0	.04	1,000	.34		
		387	28.0	.04	25,000	.30		
		T-2 NEON LAMP						
		LAMP NO.		CHARACTERISTICS				
		NE2J (C9A)		High brightness lamp for 110 VAC Applications. Use with 27K resistor				
		NE2D (C7A)		Medium brightness lamp for 90 VDC Application. Use 62K resistor.				

 RN 830 WC	 RN 830	ORDERING INFORMATION HOLDER RN A 6 3 B 5 LENS CAP RN120 RC TYPE RN/RM MOUNTING 6= solder lug FEATURES 0= none 1= flat on side 2= water proof 3= flat & water proof 4= notched on flange LENS COLOR 2= 27K 5= 62K FINISH B= black anodized S= silver anodized Y= gold irridate	LENS COLOR	
			Clear Recommended For neon lamps	
			AC- Amber BC- Blue CC- Cloudy GC- Green RC- Red WC- Water YC- Yellow	
			Translucent	
			AT- Amber BT- Blue GT- Green RT- Red WT- White YT- Yellow	
 RN 130 WC	 RN 130			
 RN 120 GT	 RN120			