

# 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
 <b>CG01</b> Dome	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.	<b>S</b> - Clear Anodize (standard)  <b>B</b> - Black Anodize (special)	<b>Standard Neon Lamps</b> <b>N110</b> - Standard Brightness  <b>N120</b> - High Brightness
 <b>CG93 &amp; CG03</b> Short Flat			<b>Special Component Lamps</b> (available in CG01 and CG04 Only)  <b>N210*</b> - Firing Voltage 72+/- 8 VDC  <b>N220*</b> - Firing Voltage 72+/- 4 VDC  <b>N230*</b> - Firing Voltage 80 VDC Max.
 <b>CG04</b> Long Flat			
CR SERIES STYLE	LENS COLOR	FINISH	LAMP/ RESISTOR NUMBER
 <b>CR01</b> Dome	Same As above	Same As above	STANDARD NEON LAMPS  <b>N114</b> - Standard Brightness Medium Life (56K)  <b>N117</b> - Standard Brightness Standard Life (100K)  <b>N118</b> - Standard Brightness Long life (150K)  <b>N121</b> - High Brightness Medium Life (22K)  <b>N123</b> - High Brightness Standard Life (33K)
 <b>CR93 &amp; CR03</b> Short Flat			
 <b>CR04</b> Long Flat			

\* 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.

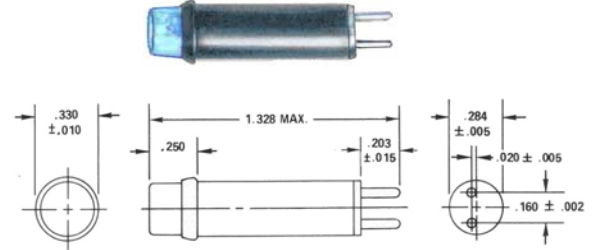
### ELDEMA C-LITES FOR DL SERIES LAMP HOLDERS

#### 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

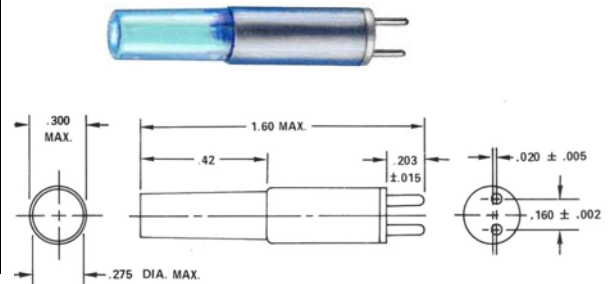
ELDEMA – C – LITE – PART NUMBER – VOLTAGE AND MA.

### 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



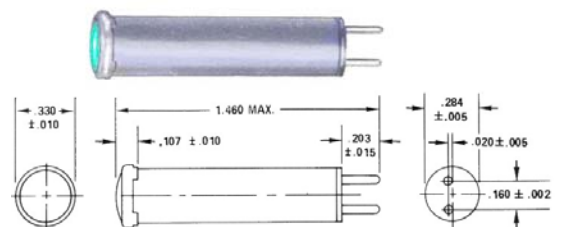
#### PART MARKING

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



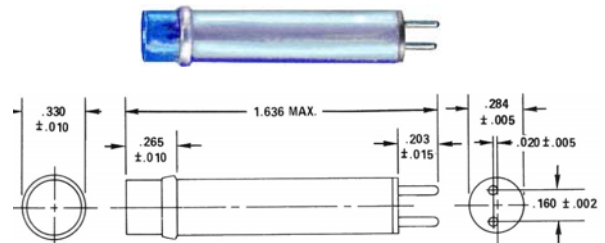
#### PART MARKING

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.



	<p><b>D14 COLLAR</b></p>	<p>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</p>																																
	<p><b>D15 COLLAR</b></p>	<p>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.</p>																																
	<p><b>D06 SMOOTH LENS</b></p>	<p>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.</p>																																
	<p><b>D07 SMOOTH LENS</b></p>	<p>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.</p>																																
	<p><b>D09 FLUTED LENS</b> Clear colors only</p>	<p>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.</p>																																
	<p><b>D25 SHROUD LENS</b> Translucent colors only</p>	<p>The <b>D25</b> is a full shroud lens with end on viewing only. The <b>D25</b> comes in translucent Colors only and mates with the <b>CF03</b> and <b>CF24</b> C-lite incandescent cartridges.</p>																																
<p>DHO -10B HOLDER ONLY WITH CF03-C-LITE FOR FLUSH PANEL MOUNTING</p>		<table border="1"> <thead> <tr> <th>HOLDER</th> <th>LENS CAP</th> <th>O.A.L</th> <th>MAX. PANEL</th> </tr> </thead> <tbody> <tr> <td>DHO or DHN</td> <td>D06 or D09</td> <td>1.57 MAX.</td> <td>.250</td> </tr> <tr> <td>DHO or DHN</td> <td>D07</td> <td>1.78 MAX.</td> <td>.250</td> </tr> <tr> <td>DHO</td> <td>D 14 or</td> <td>1.28 MAX.</td> <td>.190</td> </tr> <tr> <td>DHN</td> <td>D15</td> <td>1.29 MAX.</td> <td>.250</td> </tr> <tr> <td>DHO or DHN</td> <td>D 15</td> <td>1.57 MAX.</td> <td>.250</td> </tr> <tr> <td>DHO</td> <td>D 25</td> <td>1.20 MAX.</td> <td>.290</td> </tr> <tr> <td></td> <td>NONE</td> <td></td> <td></td> </tr> </tbody> </table>	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		
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