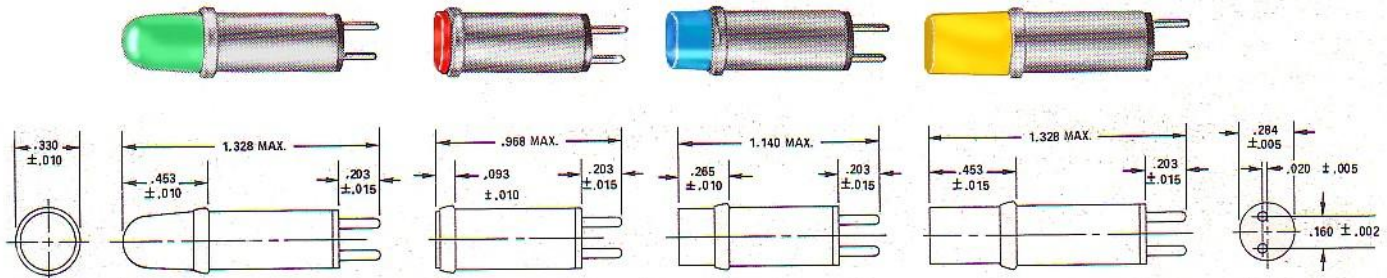


ELDEMA CF SERIES INCANDESCENT C-LITES

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	
		CF03 & CF 93 SHORT FLAT		2112	6.3	200	5,000
				2181	6.3	200	20,000
				1869*	10.0	14	100,000
				2107*	10.0	40	10,000
 CF 04 LONG 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			
	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

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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