



## Features

- Radial leaded devices
- Aids compliance with:
  - ITU-T K.20, K.21, K.45
- Narrow resistance tolerance
- RoHS compliant\*



This series is currently available but not recommended for new designs.

## Applications

Used as a secondary overcurrent protection device in:

- Customer Premise Equipment (CPE)
- Central Office (CO)
- Access equipment

## CMF-RLC Series - Telecom CPTC Resettable Fuses

### Electrical Characteristics

Model	Max. Voltage Withstand	Rated Resistance (RN)		Packaging Resistance Matching	Hold Current	Trip Current	I <sub>max</sub> @ 230 VAC	Time to Trip @ I <sub>max</sub> / 230 VAC
	V <sub>rms</sub>	Ohms	Tolerance	Ohms	Amps @ 25 °C	Amps @ 25 °C	Amps	Seconds
CMF-RLC50	650	50	±20 %	± 0.5	0.065	0.150	< 3	< 0.1
CMF-RLC50-10	650	50	±10 %	± 0.5	0.065	0.150	< 3	< 0.1

### Test Procedures And Requirements For Model CMF-RLC Series

Test	Test Conditions	Requirements*
Lightning Surge .....	10/1000 ms / 1k V / 25 A / 30 Cycles, every 3 Min. ....	(R <sub>i</sub> -R <sub>f</sub> ) / R <sub>i</sub> < ±10 %
Power Induction .....	600 V, 1 A, 1 Sec., 10 Cycles, every 1 Min. ....	(R <sub>i</sub> -R <sub>f</sub> ) / R <sub>i</sub> < ±10 %
Power Contact .....	230 V, 23 A, 15 Min. ....	(R <sub>i</sub> -R <sub>f</sub> ) / R <sub>i</sub> < ±10 %
Overvoltage Withstand .....	380 V, 3 A, 4 Hours, 1 Time .....	(R <sub>i</sub> -R <sub>f</sub> ) / R <sub>i</sub> < ±10 %
Failure Mode .....	600 V, R <sub>L</sub> =0, 60 Min, 1 Time .....	**

R<sub>i</sub> = R initial

R<sub>f</sub> = R final

\*\* Circuit disconnected or high reinforce is acceptable.

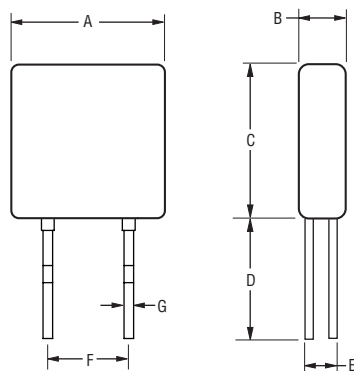
### Product Dimensions

Model	A	B	C	D	E	F	G	Physical Characteristics
	Nom.	Nom.	Nom.	Nom.	Nom.	Nom.	Nom.	Material
CMF-RLC50	9.0±0.20 (0.354±.008)	4.5±0.20 (0.177±.008)	9.6±0.20 (0.378±.008)	4.7±0.20 (0.185±.008)	2.54±0.20 (0.100±.008)	5.08 ± 0.20 (0.200±.008)	0.8 (0.031)	Sn/Cu

Packaging options:

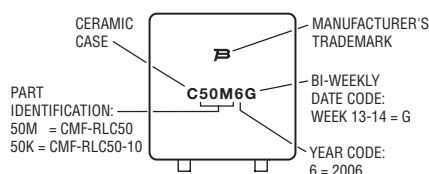
BULK: 192 pcs. per box

DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$



### Typical Part Marking

Represents total content. Layout may vary.



### How to Order

**CMF - RLC 50 - 10 - 0**

Product Designator	CMF - RLC
Style	50
Rated Resistance (RN)	10 (50 Ohms)
Rated Resistance Tolerance	-10 = ±10 % Blank = ±20 % (Standard)
Packaging Options	- 0 = Bulk Packaging



**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

CMF-RLC SERIES, REV. D, 06/18

\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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