



Features

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



This series is obsolete. The [CMF-RL](#) series is a suggested replacement.

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 _{max} @ 230 VAC	Time to Trip @ I _{max} / 230 VAC
	V _{rms}	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 _i -R _f) / R _i < ±10 %
Power Induction	600 V, 1 A, 1 Sec., 10 Cycles, every 1 Min.	(R _i -R _f) / R _i < ±10 %
Power Contact	230 V, 23 A, 15 Min.	(R _i -R _f) / R _i < ±10 %
Overvoltage Withstand	380 V, 3 A, 4 Hours, 1 Time	(R _i -R _f) / R _i < ±10 %
Failure Mode	600 V, RL=0, 60 Min, 1 Time	**

R_i = R initial

R_f = R final

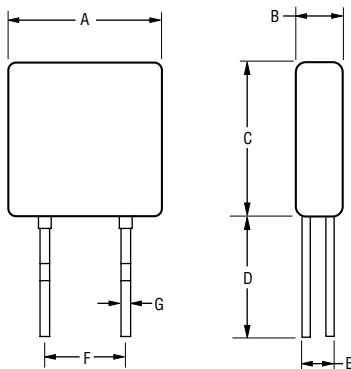
** Circuit disconnected or high reinforce is acceptable.

Product Dimensions

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

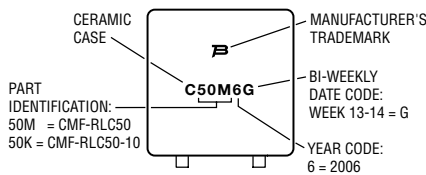
Packaging options:
BULK: 192 pcs. per box

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 - 10 - 0
	RLC = Telecom Radial Leaded CPTC - Ceramic Case
Rated Resistance (RN)	50 (50 Ohms)
Rated Resistance Tolerance	-10 = ±10 % Blank = ±20 % (Standard)
Packaging Options	- 0 = Bulk Packaging

CMF-RLC SERIES, REV. E, 1019

*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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