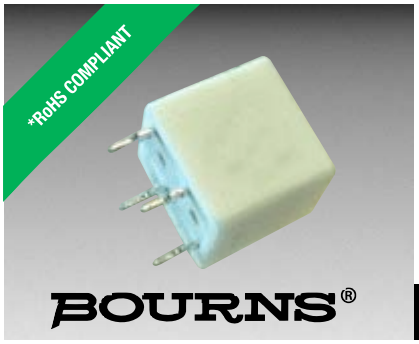


Features

- Two resistance-matched PTCs in a ceramic housing
- Aids compliance with:
  - ITU-T K.20/21/45
  - Telcordia GR-1089-CORE
  - UL 60950, 3rd Ed.
- Narrow resistance tolerance
- RoHS compliant*

This series is obsolete. The CMF-SDP series is a suggested replacement.

Applications

Used as a secondary overcurrent protection device in:

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

CMF-RD Series - Telecom CPTC Resettable Fuses

Electrical Characteristics

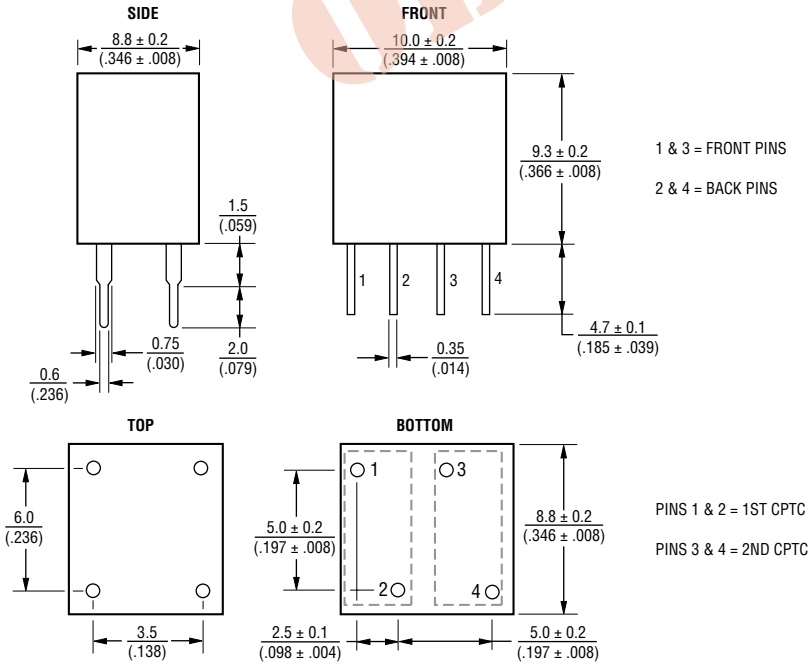
Model	Induction Voltage Withstand	Rated Voltage	Rated Resistance (RN)		Resistance Matching in Housing	Hold Current	Hold Current	Trip Current	Imax @ 230 VAC	Time to Trip @ Imax / 230 VAC
	VAC	Volts	Ohms	Tolerance	Ohms	Amps @ 25 °C	Amps @ 40 °C	Amps @ 25 °C	Amps	Seconds
CMF-RD50	600	230	50	±20 %	± 0.5	0.09	0.06	0.19	3.0	< 0.1
CMF-RD50-10	600	230	50	±10 %	± 0.5	0.09	0.06	0.19	3.0	< 0.1

Test Procedures And Requirements For Model CMF-RD Series

Test	Primary Protection	Test Condition	Requirements*
Mains Power Contact - ITU-T K.20, K.21	None	230 V rms, 10 ohms, 15 Min.	(Ri-Rf) / Ri < ±10 %
Power Induction - ITU-T K.20, K.21	None	600V rms, 600 ohms, 0.2 seconds, 10 cycles, every 1 Min.	(Ri-Rf) / Ri < ±10 %
Power Induction - ITU-T K.20, K.21	GDT	600 V rms, 600 ohms, 1 second, 10 cycles, every 1 Min.	(Ri-Rf) / Ri < ±10 %
Power Induction - ITU-T K.20, K.21	GDT	600 V rms, 200 ohms, 1 second, 10 cycles, every 1 Min.	(Ri-Rf) / Ri < ±10 %
Lightning Surge - ITU-T K.20, K.21		10/700 µs, 25 ohms, 1.0 kV, 10 Tests, every 1 Min.	(Ri-Rf) / Ri < ±10 %
Lightning Surge		10/1000 µs, 40 ohms, 1.0 kV, 30 Tests, every 3 Min.	(Ri-Rf) / Ri < ±10 %
Overvoltage Withstand		300 V, 3 A, 4 Hours, 1 Time	(Ri-Rf) / Ri < ±10 %
Failure Mode		300 V, RL=0, 60 Min.	**

Ri = R initial
Rf = R final
** Circuit disconnected or high resistance is acceptable.

Product Dimensions

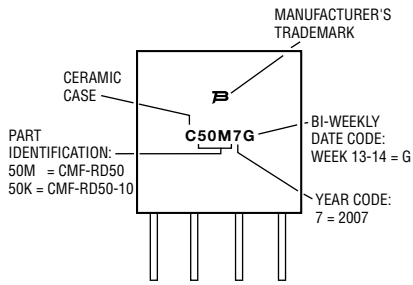


Packaging options: BULK: 96 pcs. per plastic box

DIMENSIONS: MM (INCHES)

Typical Part Marking

Represents total content. Layout may vary.



How to Order

CMF - RD 50 - 10 - 0

- Product Designator
- Style
  - RD = Radial Dual Package
- Rated Resistance (RN)
  - 50 (50 Ohms)
- Rated Resistance Tolerance
  - -10 = ±10 %
  - Blank = ±20 % (Standard)
- Packaging Options
  - 0 = Bulk Packaging

CMF-RD SERIES, REV. C, 10/19

*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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