

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**BOURNS®**

## Features

- Four 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\*

## Applications

Used as a secondary overcurrent protection device in:

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

## CMF-RQ 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
CMF-RQ50	600	230	50		±20 %	± 0.5	0.09	0.06	0.19	3.0
CMF-RQ50-10	600	230	50		±10 %	± 0.5	0.09	0.06	0.19	3.0

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

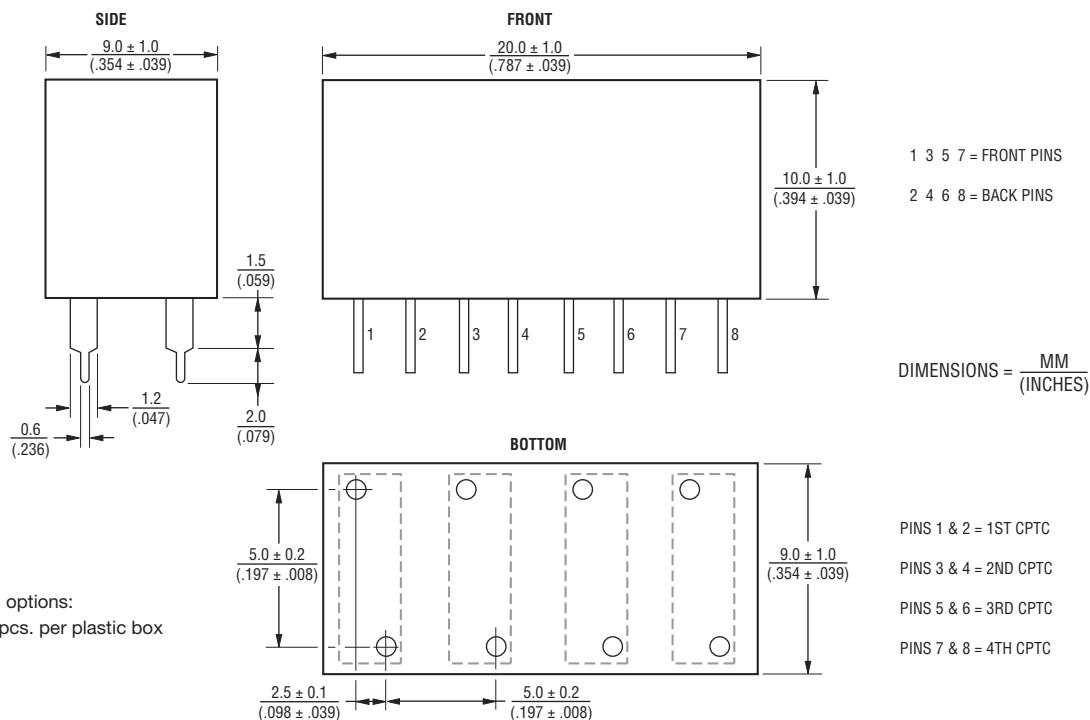
Test	Primary Protection	Test Condition	Requirements
Mains Power Contact - ITU-T K.20, K.21	None	230 V rms, 10 ohms, 15 Min.	(Ri-Rf) / Ri < ±10 %
Power Induction - ITU-T K.20, K.21	None	600V rms, 600 ohms, 0.2 seconds, 10 cycles, every 1 Min.	(Ri-Rf) / Ri < ±10 %
Power Induction - ITU-T K.20, K.21	GDT	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: 56 pcs. per plastic box

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

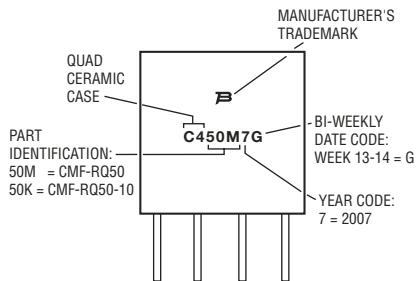
Specifications are subject to change without notice.  
Customers should verify actual device performance in their specific applications.

# CMF-RQ Series - Telecom CPTC Resettable Fuses

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## Typical Part Marking

Represents total content. Layout may vary.



## How to Order

CMF - RQ 50 - 10 - 0

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



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