

**Specification Status: Released**

**Operating Conditions at 20°C:**

Maximum Continuous Operating Voltage ( $V_{MCO}$ ): 60V<sub>DC</sub>  
Maximum Interrupt Current ( $I_{INT}$ ): 3A<sub>RMS</sub>

**Fault Ratings at 20°C:**

250 V<sub>RMS</sub>, 3A, 10 applications

**Additional Info at 20°C:**

- Resistance matched: 0.5 Ohm
- Lightning withstand: 1.5 kV per ITU-T K.20, K.21
- Helps equipment meet ITU-T K.20, K.21 Recommendations
- Helps equipment meet Telcordia GR1089 intrabuilding requirements

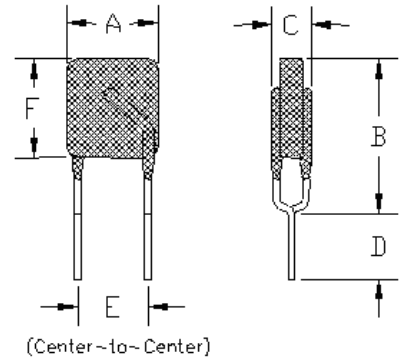
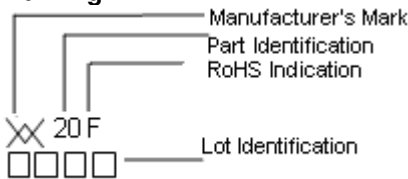
**Lead Material:**

22 AWG Sn-Plated Copper (0.64 mm [0.025"] nominal diameter)

**External Coating Material:**

Cured, flame retardant epoxy polymer, meeting UL94 V-0 requirements

**Marking:**



**TABLE I. DIMENSIONS:**

	A		B		C		D		E	F
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM	MAX
mm:	--	6.5	--	11.0	--	4.6	4.7	--	5.0	7.0
in:*	--	(0.26)	--	(0.43)	--	(0.18)	(0.19)	--	(0.20)	(0.28)

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS @ 20°C:**

HOLD CURRENT (A)	TRIP CURRENT (A)	RESISTANCE (Ω)			TIME TO TRIP(Sec) @ 1A		OPERATING TEMPERATURE (°C)		TRIPPED POWER DISSIPATION (W) @ 60V <sub>DC</sub>	
		R MIN	R MAX	R <sub>1</sub> MAX*	TYP	MAX	MIN	MAX	TYP	MAX
0.120	0.240	6.0	9.0	16.0	0.7	1.0	-40	85	0.8	0.9

\*Maximum device resistance at 20°C measured 1 hour post trip

**TABLE III. APPLICABLE PART DESCRIPTIONS:**

PART DESCRIPTION	PACKAGING TYPE	NOTES
TRF250-120T-R1-B-0.5	Bulk	N/A

Agency Recognitions: UL (File #E74889), CSA (File #78165), TUV  
 Reference Documents: PS300, ITU-T K.20, K.21  
 Precedence: This specification takes precedence over documents referenced herein  
 Effectivity: Reference documents shall be the issue in effect on the date of invitation for bid  
 CAUTION: Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame

**Materials Information**

ROHS Compliant

Directive 2002/95/EC Compliant

ELV Compliant

Directive 2000/53/EC Compliant

Pb-Free





**PolySwitch®**  
**PTC Devices**  
**Overcurrent Protection Device**

**PRODUCT: TRF250-120T-R1-B-0.5**

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REV LETTER: E  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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