

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TRF250-120T-RA-B-0.5

DOCUMENT: SCD26216
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Specification Status: Released

Operating Conditions at 20°C:

Maximum Continuous Operating Voltage (V_{MCO}): 60V_{DC}
Maximum Interrupt Current (I_{INT}): 3A_{RMS}

Fault Ratings at 20°C:

250 V_{RMS}, 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:

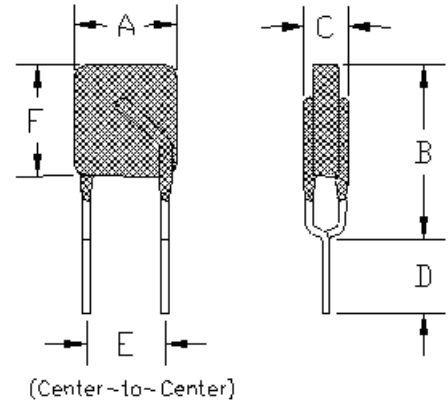
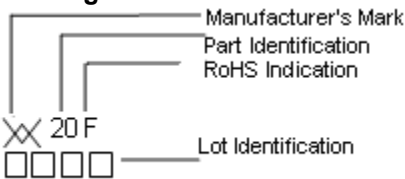


TABLE I. DIMENSIONS:

	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 TYP	OPERATING TEMPERATURE (°C)		TRIPPED POWER DISSIPATION (W) @ 60V _{DC}	
		R MIN	R MAX	R ₁ MAX*		MIN	MAX	TYP	MAX
0.120	0.240	7.0	9.0	16.0	1.2	-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-RA-B-0.5	Bulk	N/A

Agency Recognitions:
Reference Documents:
Precedence:
Effectivity:
CAUTION:

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

Materials Information

ROHS Compliant

ELV Compliant

Pb-Free

Directive 2002/95/EC
Compliant

Directive 2000/53/EC
Compliant

