

PolySwitch® PTC Devices

Overcurrent Protection Device

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

DOCUMENT: SCD26302

REV LETTER: F

REV DATE: JULY 26,2016

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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

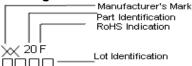
Lead Material:

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:



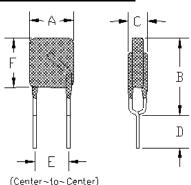


TABLE I. DIMENSIONS:

	Α		В		С		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) @ 60VDC		
		R MIN	R MAX	R _{1 MAX} *	TYP	MIN	MAX	TYP	MAX
0.120	0.240	6.0	10.5	16.0	0.9	-40	85	0.8	0.9

^{*}Maximum device resistance at 20°C measured 1 hour post trip

TABLE III. APPLICABLE PART DESCRIPTIONS:

7.0212 MII.7 M. 1 2107 M2 21 7 M						
PART DESCRIPTION	PACKAGING TYPE	NOTES				
TRF250-120T-RF-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 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

ELV Compliant

Pb-Free

Directive 2002/95/EC Compliant

Directive 2000/53/EC Compliant





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