PolySwitch® PTC Devices

Overcurrent Protection Device

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

DOCUMENT: SCD28180
REV LETTER: A
REV DATE: JULY 26, 2016

Specification Status: Released

Operating Conditions at 20°C:

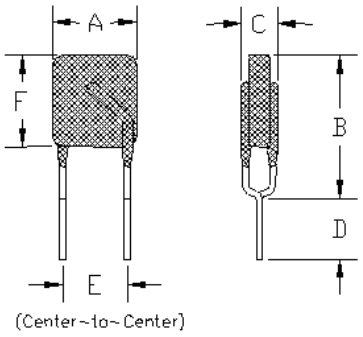
Maximum Continuous Operating Voltage (V_{MCO}): $60V_{DC}$
Maximum Interrupt Current (I_{INT}): $3A_{RMS}$

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:

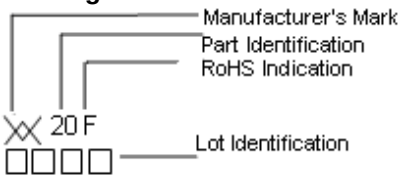


TABLE I. DIMENSIONS:

	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		OPERATING TEMPERATURE (°C)		TRIPPED POWER DISSIPATION (W) @ $60V_{DC}$	
		R MIN	R MAX	$R_{1\ MAX}$*	TYP	MAX	MIN	MAX	TYP	MAX
0.120	0.240	9.0	11.0	16.0	0.7	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-RH-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.

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Specifications are subject to change without notice.

Materials Information

ROHS Compliant	ELV Compliant	Pb-Free
Directive 2002/95/EC Compliant	Directive 2000/53/EC Compliant	Pb

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