

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TRF250-120T-R2-B-0.5

DOCUMENT: SCD26447

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 (IINT): 3ARMS

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



Manufacturer's Mark Part Identification RoHS Indication XX 20 F Lot Identification

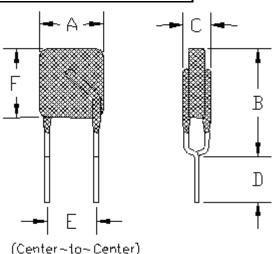


TABLE I. DIMENSIONS:

	Α		В		С		D		Е	F
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM	MAX
mm:		6.5	1	11.0		4.6	4.7	-	5.0	7.0
in: *		(0.26)	ı	(0.43)	-	(0.18)	(0.19)	1	(0.20)	(0.28)

^{*}Rounded off approximation

TABLE II. PERFORMANCE RATINGS @ 20°C:

HOLD	TRIP	RES	SISTANC	Ε (Ω)	TIME TO TRIP(Sec)	OPER/	ATING	TRIP	PED
CURRENT	CURRENT				@ 1A	TEMPER	ATURE	POWER DI	SSIPATION
(A)	(A)					(°C	C)	(W) @	60V _{DC}
, ,	, ,	R MIN	R MAX	R ₁ MAX*	TYP	MIN	MAX	TYP	MAX
0.120	0.240	8.0	10.5	16.0	0.75	-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-R2-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

ELV Compliant

Pb-Free

Directive 2002/95/EC Compliant

Directive 2000/53/EC Compliant





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