

# PolySwitch® PTC Devices

**Overcurrent Protection Device** 

PRODUCT: TRF250-120

DOCUMENT: SCD26212

REV LETTER: G REV DATE: JULY 26, 2016

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(Center~to~Center)

# **Specification Status: Released**

# Operating Conditions at 20°C:

Maximum Continuous Operating Voltage (V<sub>MCO</sub>): 60V<sub>DC</sub>

Maximum Interrupt Current (IINT): 3ARMS

## Fault Ratings at 20°C:

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

## Additional Info at 20°C:

- Resistance matched: n/a
- 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

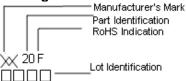
#### Lead Material:

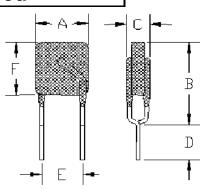
22 AWG Sn-Plated Copper (0.64 mm [0.025"] nominal diameter)

### **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)

<sup>\*</sup>Rounded off approximation

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

	HOLD	TRIP	RESISTANCE (Ω)		TIME TO	, ,	OPERATING		TRIPPED		
	CURRENT (A)	(A)			@ 1A		TEMPERATURE (°C)		POWER DISSIPATION (W) @ 60V <sub>DC</sub>		
ı			R MIN	R MAX	R <sub>1</sub> MAX*	TYP	MAX	MIN	MAX	TYP	MAX
ĺ	0.120	0.240	4.0	8.0	16.0	1.5	2.5	-40	85	8.0	0.9

<sup>\*</sup>Maximum device resistance at 20°C measured 1 hour post trip

## **TABLE III. APPLICABLE PART DESCRIPTIONS:**

PART DESCRIPTION	PACKAGING TYPE	NOTES		
TRF250-120	Bulk	N/A		
TRF250-120-2	Tape and Reel	Dim "D" not applicable		

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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