

# PolySwitch® PTC Devices

**Overcurrent Protection Device** 

PRODUCT : TRF250-110U

DOCUMENT : SCD26316 REV LETTER: G

**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:

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

#### Additional Info at 20°C:

- Resistance matched: n/a
- Lightning withstand: 1.0 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:

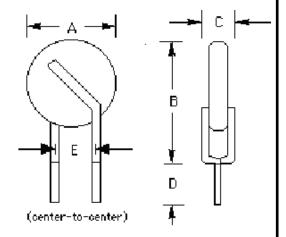
22 AWG Sn-Plated Copper (0.64 mm [0.025"] nominal diameter)

#### **External Coating Material:**

None

#### Marking:

None



#### TABLE I. DIMENSIONS:

	Α		В		С		D		E
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM
mm:		5.3		9.4		3.8	4.7		5.0
in*:		(0.21)		(0.37)		(0.15)	(0.19)		(0.20)

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

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

HOLD	TRIP	RESISTANCE (Ω)		TIME TO TRIP(Sec)		OPERATING		TRIPPED		
<b>CURRENT</b>	CURRENT	, ,			@ 1A T		TEMPERATURE		POWER DISSIPATION	
(A)	(A)						(°C)		(W) @ 60V <sub>DC</sub>	
		R MIN	R MAX	R <sub>1</sub> MAX*	TYP	MAX	MIN	MAX	TYP	MAX
0.110	0.220	5.0	9.0	16.0	0.75	1.2	-40	85	0.6	0.7

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

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

PART DESCRIPTION	PACKAGING TYPE	NOTES
TRF250-110U	Bulk	N/A

Agency Recognitions: UL File #E74889, CSA File #78165C, TUV

Reference Documents: Littelfuse 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



Revised 7/26/16



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