PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TRF250-110U-B-0.5

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:

$250V_{RMS}$, 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

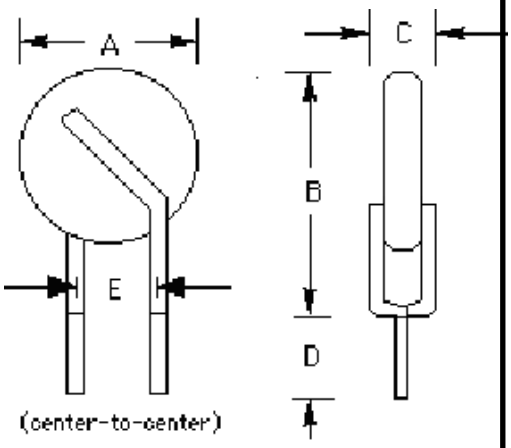

TABLE I. DIMENSIONS:

	A		B		C		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)

*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
0.110	0.220	5.0	9.0	16.0	0.75	1.2	-40	85	0.6	0.7

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

TABLE III. APPLICABLE PART DESCRIPTIONS:

PART DESCRIPTION	PACKAGING TYPE	NOTES
TRF250-110U-B-0.5	Bulk	N/A

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

Directive 2002/95/EC Compliant

ELV Compliant

Directive 2000/53/EC Compliant

Pb-Free