

# PolySwitch® PTC Devices

**Overcurrent Protection Device** 

PRODUCT: TRF250-145T-B-0.5

D

DOCUMENT: SCD26235 REV LETTER: F

**REV DATE: JULY 26, 2016** 

PAGE NO.: 1 OF 2

(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 (I<sub>INT</sub>): 3A<sub>RMS</sub>

#### Fault Ratings at 20°C:

250V<sub>RMS</sub>, 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 requirem

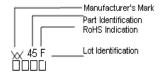
#### Lead Material:

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	MIN	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 CURRENT (A)	TRIP CURRENT (A)	RESISTANCE (Ω)			TIME TO TRIP(Sec) @ 1A		OPERATING TEMPERATURE (°C)		TRIPPED POWER DISSIPATION (W) @ 60V⊳c	
		R MIN	R MAX	R <sub>1 MAX</sub> *	TYP	MAX	MIN	MAX	ΤΫ́P	MAX
0.145	0.290	5.4	7.5	14.0	1.5	2.5	-40	85	0.8	0.9

<sup>\*</sup>Post Trip Resistance measured after one hour.

#### TABLE III. APPLICABLE PART DESCRIPTIONS:

PART DESCRIPTION	PACKAGING TYPE	NOTES
TRF250-145T-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 ELV Compliant Pb-Fre

Directive 2002/95/EC Compliant Directive 2000/53/EC Compliant





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