

**Specification Status: Released & Restricted**

**Operating Conditions at 20°C:**

Maximum Continuous Operating Voltage ( $V_{MCO}$ ): 60V<sub>DC</sub>  
Maximum Interrupt Current ( $I_{INT}$ ): 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 requirements

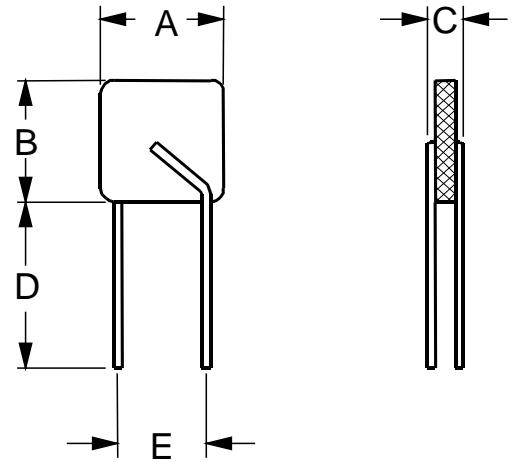
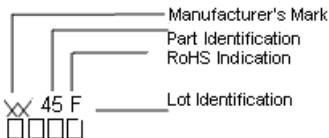
**Lead Material:**

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

**External Coating Material:**

None

**Marking:**



Center-to-Center

**TABLE I. DIMENSIONS:**

	A		B		C		D		E
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM
mm:	--	6.0	--	6.0	--	3.8	4.7	--	5.0
in:	--	(0.24)	--	(0.24)	--	(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 <sub>DC</sub>	
		R MIN	R MAX	R <sub>1 MAX</sub> *	TYP	MAX	MIN	MAX	TYP	MAX
0.145	0.290	3.5	6.5	14.0	2.0	4.0	-40	85	0.7	0.8

\*Post Trip Resistance measured after one hour.

**TABLE III. APPLICABLE PART DESCRIPTIONS:**

PART DESCRIPTION	PACKAGING TYPE	NOTES
TRF250-145US-B-0.5	Bulk	N/A

Agency Recognitions: UL (File #E74889), CSA (File #78165C), TUV PS300, ITU-T K.20, K.21  
 Reference Documents: This specification takes precedence over documents referenced herein.  
 Precedence: Reference documents shall be the issue in effect on the date of invitation for bid.  
 Effectivity: Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.  
 CAUTION:

**Materials Information**

ROHS Compliant

ELV Compliant

Pb-Free



**PolySwitch®**  
**PTC Devices**  
**Overcurrent Protection Device**

**PRODUCT: TRF250-145US-B-0.5**

DOCUMENT: SCD26226  
REV LETTER: E  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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