



**THE DATASHEET OF  
TRF250-180-2**



**Specification Status: Released**

**Operating Conditions at 20°C:**

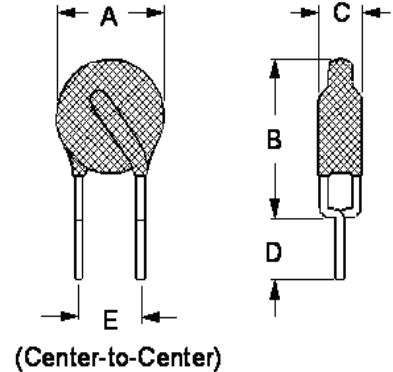
Maximum Continuous Operating Voltage ( $V_{MCO}$ ): 100V<sub>DC</sub>  
Maximum Interrupt Current ( $I_{INT}$ ): 10A<sub>RMS</sub>

**Fault Ratings at 20°C:**

250V<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



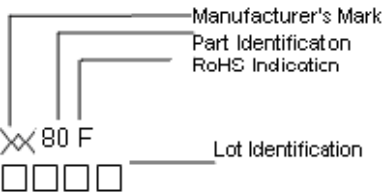
**Lead Material:**

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:**



**Please use TRF250-183 & TRF250-184 Series for New Programs.**

**TABLE I. DIMENSIONS:**

	A		B		C		D		E
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM
mm:	--	9.0	--	12.0	--	3.8	4.7		5.0
in:*	--	(0.35)	--	(0.47)	--	(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) @ 3A		OPERATING TEMPERATURE (°C)		TRIPPED POWER DISSIPATION (W) @ 100V <sub>DC</sub>	
		R MIN	R MAX	R <sub>1</sub> MAX*	TYP	MAX	MIN	MAX	TYP	MAX
0.180	0.650	0.8	2.2	4.0	0.5	2.0	-40	85	0.9	1.2

\*Post Trip Resistance measured after one hour.

**TABLE III. APPLICABLE PART DESCRIPTIONS:**

PART DESCRIPTION	PACKAGING TYPE	NOTES
TRF250-180	Bulk	N/A
TRF250-180-2	Tape & Reel	Dim D not applicable

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**



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