

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TRF250-145US-B-0.5

DOCUMENT: SCD26226 REV LETTER: E

REV DATE: JULY 26, 2016 PAGE NO.: 1 OF 2

Specification Status: Released & Restricted

Operating Conditions at 20°C:

Maximum Continuous Operating Voltage (VMCO): 60VDC Maximum Interrupt Current (I_{INT}): 3A_{RMS}

Fault Ratings at 20°C:

250V_{RMS}, 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

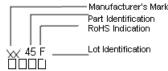
Lead Material:

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

External Coating Material:

None

Marking:





	Α		В		С		D		E	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM	
mm:		6.0	-	6.0	-	3.8	4.7	1	5.0	
in:		(0.24)	-	(0.24)		(0.15)	(0.19)		(0.20)	

^{*}Rounded off approximation

TABLE II. PERFORMANCE RATINGS @ 20°C:

HOLD CURRENT	TRIP CURRENT	RESISTANCE (Ω)		TIME TO TRIP(Sec) @ 1A		OPERATING TEMPERATURE		TRIPPED POWER DISSIPATION		
(A)	(A)	R MIN R MAX R _{1 MAX} *		TYP MAX		(°C) MIN MAX		(W) @ 60V _{DC} 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

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

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.

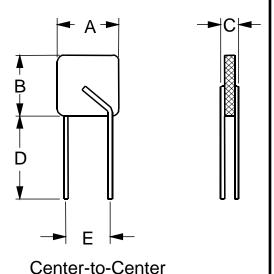
Materials Information

ROHS Compliant ELV Compliant Pb-Free

Directive 2002/95/EC Compliant

Directive 2000/53/EC Compliant







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