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PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TRF250-145US-B-0.5

DOCUMENT: SCD26226
REV LETTER: E
REV DATE: JULY 26, 2016

Specification Status: Released & Restricted

Operating Conditions at 20°C:

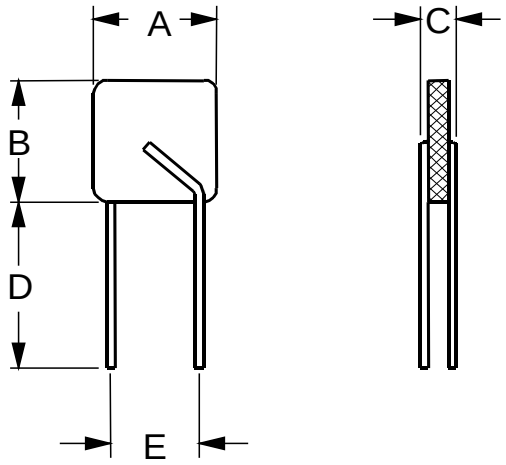
Maximum Continuous Operating Voltage (V_{MCO}): $60V_{DC}$
Maximum Interrupt Current (I_{INT}): $3A_{RMS}$

Fault Ratings at 20°C:

$250V_{RMS}$, 3A, 10 applications

Additional Info at 20°C:

- Resistance matched: 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



Center-to-Center

Lead Material:

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

External Coating Material:

None

Marking:

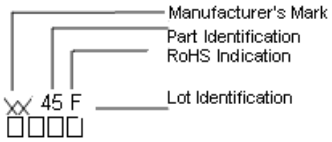


TABLE I. DIMENSIONS:

	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) @ $60V_{DC}$	
		R MIN	R MAX	$R_{1\ MAX}$*	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
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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