

308 Constitution Drive Menlo Park, CA USA www.circuitprotection.com

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TCF250-145T-B-0.5

DOCUMENT: SCD26261

PCN: REFER TO TABLE III BELOW

REV LETTER: F

REV DATE: MAY 11, 2011 PAGE NO.: 1 OF 1

Specification Status: Released

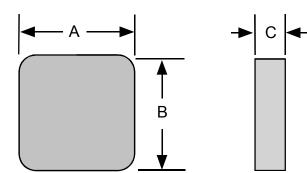
Maximum Operating Voltage: 60V_{DC}

Fault Ratings at 20°C:

250V_{RMS}, 3A, 10 applications

Additional Info at 20°C:

- Resistance matched: 0.5 ohms
- Lightning withstand:
 - ITU-T K.20/K21 1.5 kV
- Helps equipment meet ITU-T K.20/K.21recommendations
- Helps equipment meet Telcordia GR1089 intrabuilding requirements



Marking:

	— Manufacturer's Mark
×	Lot Identification

TABLE I. DIMENSIONS:

	Α		Е	3	С		
	MIN	MAX	MIN	MAX	MIN	MAX	
mm:	5.4	5.6	5.4	5.6	2.0	2.5	
in:*	(0.21)	(0.22)	(0.21)	(0.22)	(80.0)	(0.10)	

^{*}Rounded off approximation.

TABLE II. PERFORMANCE RATINGS @ 20°C:

	HOLD*	TRIP	RESISTANCE (Ω)		TIME TO	TIME TO TRIP(Sec) OPERATING		TRIPPED		
	CURRENT	CURRENT			@ 1A TE		TEMPERATURE (°C)		POWER DISSIPATION	
	(A)	(A)					(W)			
ı			R MIN	R MAX	R _{1 MAX} **	TYP*	MAX	MIN	MAX	TYP @ 60V _{DC}
l	0.145	0.290	5.0	9.0	14.0	1.0	2.0	-40	85	1.0

^{*} Dependent on Heat Sinking of Mounting Fixture

TABLE III. APPLICABLE PART DESCRIPTIONS:

PART DESCRIPTION	PCN # (INTERNAL USE ONLY)	PACKAGING TYPE	NOTES
TCF250-145T-B-0.5	RF0065-000	Bulk	N/A

Agency Recognitions: UL (File #E74889)

Reference Documents: Raychem 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

Directive 2002/95/EC

Compliant

ROHS Compliant ELV Compliant

Directive 2000/53/EC Compliant





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^{**}Maximum device resistance at 20°C measured 1 hour post trip