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# PolySwitch® PTC Devices

**Overcurrent Protection Device** 

PRODUCT: TCF250-145-RB-B-0.5

DOCUMENT: SCD25921

PCN: REFER TO TABLE III BELOW

REV LETTER: G

REV DATE: MAY 9, 2011 PAGE NO.: 1 OF 1

# **Specification Status: Released**

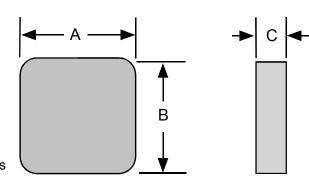
Maximum Operating Voltage: 60V<sub>DC</sub>

# Fault Ratings at 20°C:

250V<sub>RMS</sub>, 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.21 recommendations
- Helps equipment meet Telcordia GR1089 intrabuilding requirements



# Marking:

None

### **TABLE I. DIMENSIONS:**

	Α		E	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)	

<sup>\*</sup>Rounded off approximation.

## TABLE II. PERFORMANCE RATINGS @ 20°C:

HOLI	<b>)</b> *	TRIP	RESISTANCE (Ω)		TIME TO TRIP(Sec)	OPERATING		TRIPPED	
CURRI	ENT	CURRENT			@ 1A	TEMPERATURE (°C)		POWER DISSIPATION	
(A)		(A)		•					(W)
			R MIN	R MAX	R <sub>1 MAX</sub> **	TYP*	MIN	MAX	TYP @ 60V <sub>DC</sub>
0.14	5	0.290	4.3	6.0	14.0	2.0	-40	85	1.0

<sup>\*</sup> Dependent on Heat Sinking of Mounting Fixture.

#### TABLE III. APPLICABLE PART DESCRIPTIONS:

PART DESCRIPTION	PCN # (INTERNAL USE ONLY)	PACKAGING TYPE	NOTES
TCF250-145-RB-B-0.5	A25043-000	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**

**ROHS Compliant** 

**ELV Compliant** 

Pb-Free

Directive 2002/95/EC Compliant

Directive 2000/53/EC Compliant



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<sup>\*\*</sup>Maximum device resistance at 20°C measured 1 hour post trip