

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TSL250-080F-B-0.5

DOCUMENT: SCD26291
REV LETTER: D
REV DATE: MAY 11, 2011
PAGE NO.: 1 OF 1

Specification Status: Released

Operating Conditions at 20°C:

Maximum Continuous Operating Voltage (V_{MCO}): 80V_{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: 1.0 kV per ITU-T K.20, K.21
- 1.5 kV per Telcordia GR1089 Intrabuilding – Surge 1 & 2
- Helps equipment meet ITU-T K.20, K.21 Recommendations
- Helps equipment meet Telcordia GR1089 Intrabuilding requirements

Terminal Material: Tin-Plated Brass

Marking:

 Manufacturer's Mark
 Part Identification
 Lot Identification

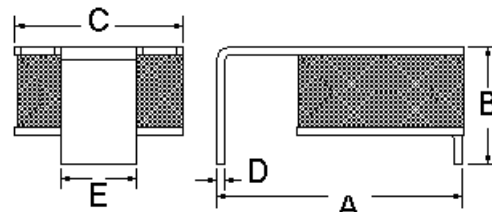


TABLE I. DIMENSIONS:

	A		B		C		D		E	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
mm:	6.7	7.9	2.7	3.7	4.8	5.3	0.2	0.4	2.5	3.1
in.*	(0.265)	(0.310)	(0.110)	(0.145)	(0.190)	(0.210)	(0.008)	(0.015)	(0.100)	(0.120)

*Rounded off approximation

TABLE II. PERFORMANCE RATINGS:

HOLD CURRENT (A)		TRIP CURRENT (A)	RESISTANCE (Ω)			TIME TO TRIP(Sec) @ 1A		OPERATING TEMPERATURE (°C)		TRIPPED POWER DISSIPATION (W) @ 80V _{DC}	
20°C	70°C		R MIN	R MAX	R ₁ MAX*	TYP	MAX	MIN	MAX	TYP	MAX
0.080	0.044	0.24	5.0	11.0	20.0	0.8	1.6	-40	85	1.0	1.2

*Maximum device resistance at 20°C measured 1 hour post trip and 24 hours post reflow

TABLE III. APPLICABLE PART DESCRIPTIONS:

PART DESCRIPTION	PACKAGING TYPE	NOTE
TSL250-080F-B-0.5	Tape and Reel	Dim D not applicable

Agency Recognitions:
Reference Documents:
Precedence:
Effectivity:
Caution:

UL (File #E74889), CSA (File #78165C), TUV
Raychem PS300, ITU-T K.20, K.21
This specification takes precedence over documents referenced herein.
Reference documents shall be the issue in effect on the date of invitation for bid.
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

