

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:

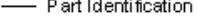
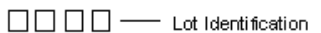
250V_{RMS}, 3A, 10 applications

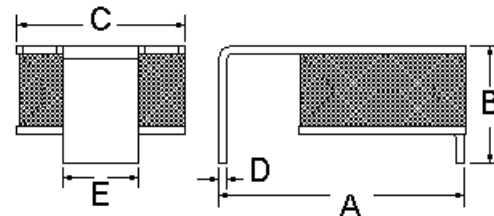
Additional Info at 20°C:

- 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: 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



PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TSL250-080F-B-0.5DOCUMENT: SCD26291
REV LETTER: D
REV DATE: JULY 26, 2016
PAGE NO.: 2 OF 2

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