

**Tyco / Electronics**  
**Raychem Circuit Protection**  
 308 Constitution Drive  
 Menlo Park, Ca 94025-1164  
 Phone: 800-227-4856  
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**PolySwitch®**  
**PTC Devices**  
 Overcurrent Protection Device

**PRODUCT: TSM600-250F-RA**

DOCUMENT: SCD 26007  
 PCN: A88390-000  
 REV LETTER: C  
 REV DATE: FEBRUARY 6, 2006  
 PAGE NO.: 1 OF 1

**Specification Status: RELEASED**

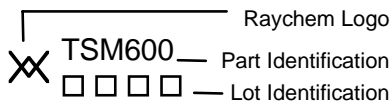
**Max Electrical Rating at 20°C**

**Operating Voltage: 250V<sub>DC</sub>**  
**Interrupt Current: 3A<sub>RMS</sub>**

**Fault Voltage: 600V<sub>RMS</sub>**

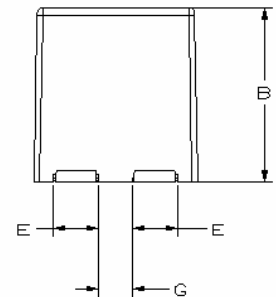
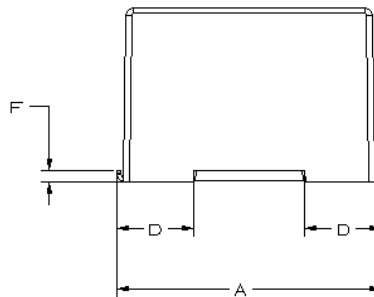
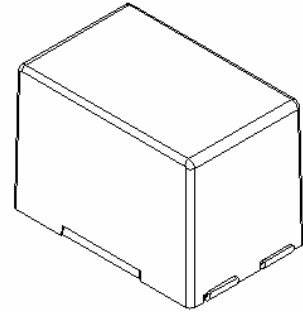
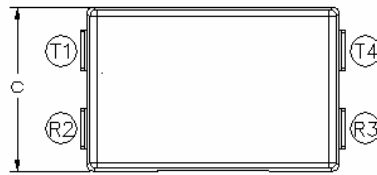
Lead Material: Tin plated brass  
 Configuration: Two PPTC devices per  
 TSM600 part  
 Case Material: Nylon Resin (UL94 V-0)  
 1000V dielectric rating

**Marking:**



**Terminal Description:**

T1 = Tip In    T4 = Tip Out  
 R2 = Ring In    R3 = Ring Out



**TABLE I. DIMENSIONS:**

	A		B		C		D		E		F		G	
mm:	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
in:	(0.671)	(0.691)	(0.440)	(0.460)	(0.410)	(0.440)	(0.187)	(0.203)	(0.099)	(0.111)	(0.022)	(0.038)	(0.087)	(0.122)

**TABLE II. PERFORMANCE RATINGS @ 20°C (unless otherwise noted):**

I HOLD (A)		RESISTANCE (Ω)** @ 20° C			TIME TO TRIP @ 3 A (Seconds)		OPERATING TEMPERATURE (°C)		Tripped State Power Dissipation @ 250V (Watts) TYPICAL
20°C	60°C	R MIN	R TYP	R <sub>1</sub> MAX*	TYP	MAX	MIN	MAX	
0.250	0.140	1.0	3.0	5.0	1	6	-40	85	2

\* Maximum device resistance, measured 1-hour post reflow or post trip.

\*\* Resistance per PPTC device.

**Additional Ratings @ 20°C**

Resistance Matched: 0.5 Ohm measured 24 hours after reflow installation    Storage Temperature: -40° to 85° C  
 Line Balance: 0.5 Ohm, 59 dB @ 4 kHz minimum\*\*\*    Storage Humidity: Per IPC/JEDEC J-STD-020A Level 2a

\*\*\*Tested in accordance with IEEE 455 with a device having a series longitudinal balance value of at least 60dB.

Agency Recognitions: UL, CSA  
 Reference Documents: PS300  
 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.

**MATERIALS INFORMATION**

**ROHS Compliant**      **ELV Compliant**      **Pb-Free**

Directive 2002/95/EC Compliant      Directive 2000/53/EC Compliant

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