

# PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TS250-130F-B-0.5

DOCUMENT: SCD26239  
REV LETTER: G  
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PAGE NO.: 1 OF 1

## Specification Status: Released

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

**Fault Ratings at 20°C:**

250 V<sub>RMS</sub>, 3A, 10 applications  
600 V<sub>RMS</sub>, 1A, 5 applications

**Additional Info at 20°C:**

- Resistance matched: 0.5 ohm
- Lightning withstand: 1.5kV per ITU-T
- 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     | NOM     | NOM     |
| mm:  | 8.5     | 9.4     | --  | 3.4     | --  | 7.4     | 0.3     | 3.8     |
| in.* | (0.335) | (0.370) | --  | (0.135) | --  | (0.290) | (0.011) | (0.150) |

\*Rounded off approximation

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

| HOLD<br>CURRENT<br>(A) | TRIP<br>CURRENT<br>(A) | RESISTANCE (Ω) |       |                     | TIME TO TRIP(Sec)<br>@ 1A |     | OPERATING<br>TEMPERATURE<br>(°C) |     | TRIPPED<br>POWER DISSIPATION<br>(W)<br>TYP @ 60V <sub>DC</sub> |
|------------------------|------------------------|----------------|-------|---------------------|---------------------------|-----|----------------------------------|-----|----------------------------------------------------------------|
|                        |                        | R MIN          | R MAX | R <sub>1</sub> MAX* | TYP                       | MAX | MIN                              | MAX |                                                                |
| 0.130                  | 0.260                  | 6.5            | 12.0  | 20.0                | 0.9                       | 2.5 | -40                              | 85  | 1.1                                                            |

\*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 |
|--------------------|----------------|------|
| TS250-130F-B-0.5-2 | Tape and Reel  | N/A  |

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

