

Tyco / Electronics
Raychem Circuit Protection
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PolySwitch®
PTC Devices
 Overcurrent Protection Device

PRODUCT: TRF250-080U

DOCUMENT: SCD 26315
 PCN: REFER TO TABLE III BELOW
 REV LETTER: D
 REV DATE: MARCH 1, 2007
 PAGE NO.: 1 OF 1

Specification Status: RELEASED

Maximum Operating Voltage: 60V_{DC}

Fault Ratings at 20°C:
 250 V_{RMS}, 3A, 10 applications

Additional Info at 20°C:
 Resistance matched: N/A
 Lightning withstand: ITU-T @ 1.0KV
 Helps equipment meet ITU-T K.20/K.21 specifications

Lead Material: 22 AWG Tin-Plated Copper
 (0.65 mm [0.026"] nominal diameter)

Marking:
 None

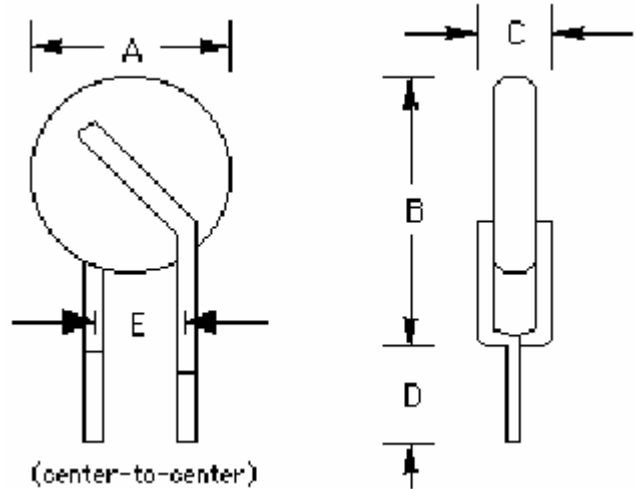


TABLE I. DIMENSIONS

| | A | | B | | C | | D | | E |
|------|-----|--------|-----|--------|-----|--------|--------|-----|--------|
| | Min | Max | Min | Max | Min | Max | Min | Max | Nom |
| mm: | -- | 4.8 | -- | 9.30 | -- | 3.8 | 4.7 | -- | 5.0 |
| in*: | -- | (0.19) | -- | (0.37) | -- | (0.15) | (0.19) | -- | (0.20) |

*Rounded off approximation

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

| HOLD CURRENT (A) | TRIP CURRENT (A) | RESISTANCE (Ω) | | | TIME TO TRIP(Sec) @ 0.35A | | OPERATING TEMPERATURE (°C) | | TRIPPED POWER DISSIPATION (W) TYP @ 60V _{DC} |
|------------------|------------------|----------------|-------|----------------------|---------------------------|-----|----------------------------|-----|---|
| | | R MIN | R MAX | R _{1 MAX} * | TYP | MAX | MIN | MAX | |
| 0.080 | 0.160 | 14.0 | 20.0 | 33.0 | 2.5 | 4.0 | -40 | 85 | 0.6 |

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

TABLE III. APPLICABLE PART DESCRIPTIONS:

| PART DESCRIPTION | PCN # (INTERNAL USE ONLY) | PACKAGING TYPE | NOTES |
|------------------|---------------------------|----------------|-----------------------|
| TRF250-080U | RF0125-000 | Bulk | N/A |
| TRF250-080U-2 | RF0530-000 | Tape and Reel | Dim. D not applicable |

Agency Recognitions: UL, CSA, TUV
 UL File #E74889, CSA File #78165C

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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