

Specification Status: Released

Operating Conditions at 20°C:

Maximum Continuous Operating Voltage (V_{MCO}): 60V_{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: 1.5 kV per ITU-T K.20, K.21
- Helps equipment meet ITU-T K.20, K.21 Recommendations
- Helps equipment meet Telcordia GR1089 intrabuilding requireme

Lead Material:

22 AWG Sn-Plated Copper (0.64 mm [0.025"] nominal diameter)

External Coating Material:

Cured, flame retardant epoxy polymer, meeting UL94 V-0 requirements

Marking:

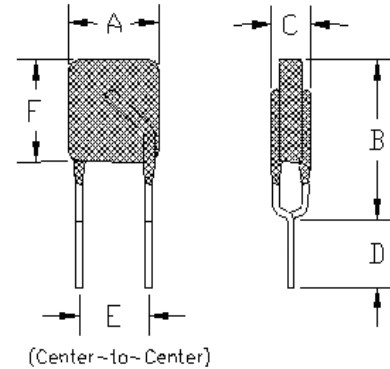
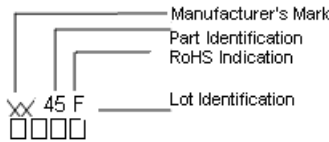


TABLE I. DIMENSIONS:

| | A | | B | | C | | D | | E NOM | F | |
|-----|-----|--------|-----|--------|-----|--------|--------|-----|----------|-----|--------|
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | | MIN | MAX |
| mm: | -- | 6.5 | -- | 11.0 | -- | 4.6 | 4.7 | -- | 5.0 | -- | 7.0 |
| in: | -- | (0.26) | -- | (0.43) | -- | (0.18) | (0.19) | -- | (0.20) | -- | (0.28) |

*Rounded off approximation

TABLE II. PERFORMANCE RATINGS @ 20°C:

| HOLD CURRENT (A) | TRIP CURRENT (A) | RESISTANCE (Ω) | | | TIME TO TRIP(Sec) @ 1A | | OPERATING TEMPERATURE (°C) | | TRIPPED POWER DISSIPATION (W) @ 60V _{DC} | |
|------------------|------------------|----------------|-------|---------------------|------------------------|-----|----------------------------|-----|---|-----|
| | | R MIN | R MAX | R ₁ MAX* | TYP | MAX | MIN | MAX | TYP | MAX |
| 0.145 | 0.290 | 3.0 | 6.0 | 14.0 | 2.5 | 5.0 | -40 | 85 | 0.8 | 0.9 |

*Post Trip Resistance measured after one hour.

TABLE III. APPLICABLE PART DESCRIPTIONS:

| PART DESCRIPTION | PACKAGING TYPE | NOTES |
|-----------------------|----------------|------------------------|
| TRF250-145-RA-B-0.5 | Bulk | N/A |
| TRF250-145-RA-B-0.5-2 | Tape and Reel | Dim "D" not applicable |

Agency Recognitions:
Reference Documents:
Precedence:
Effectivity:
CAUTION:

UL (File #E74889), CSA (File #78165C), TUV
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





PolySwitch®
PTC Devices
Overcurrent Protection Device

PRODUCT : TRF250-145-RA-B-0.5

DOCUMENT : SCD26234
REV LETTER: G
REV DATE: JULY 26, 2016
PAGE NO.: 2 OF 2

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