

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:

250 V_{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 requirements

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:

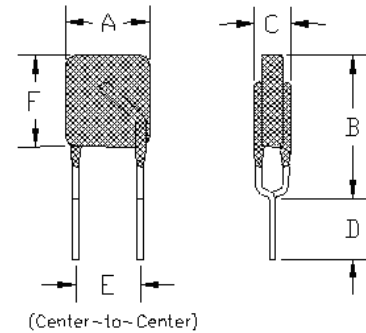
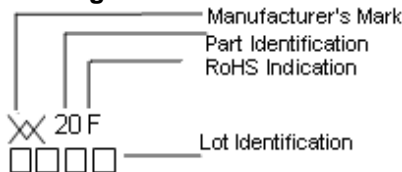


TABLE I. DIMENSIONS:

| | A | | B | | C | | D | | E | F |
|------|-----|--------|-----|--------|-----|--------|--------|-----|--------|--------|
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | NOM | 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 |
| 0.120 | 0.240 | 9.0 | 11.0 | 16.0 | 0.7 | 1.2 | -40 | 85 | 0.8 | 0.9 |

*Maximum device resistance at 20°C measured 1 hour post trip

TABLE III. APPLICABLE PART DESCRIPTIONS:

| PART DESCRIPTION | PACKAGING TYPE | NOTES |
|----------------------|----------------|-------|
| TRF250-120T-RH-B-0.5 | Bulk | N/A |

Agency Recognitions: UL (File #E74889), CSA (File #78165), 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.



Expertise Applied | Answers Delivered

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TRF250-120T-RH-B-0.5

DOCUMENT: SCD28180
REV LETTER: A
REV DATE: JULY 26, 2016
PAGE NO.: 2 OF 2

Materials Information

ROHS Compliant

Directive 2002/95/EC
Compliant

ELV Compliant

Directive 2000/53/EC
Compliant

Pb-Free



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