

**Specification Status: Released**

**Operating Conditions at 20°C:**

Maximum Continuous Operating Voltage ( $V_{MCO}$ ): 60V<sub>DC</sub>  
Maximum Interrupt Current ( $I_{INT}$ ): 3A<sub>RMS</sub>

**Fault Ratings at 20°C:**

250V<sub>RMS</sub>, 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 requirem

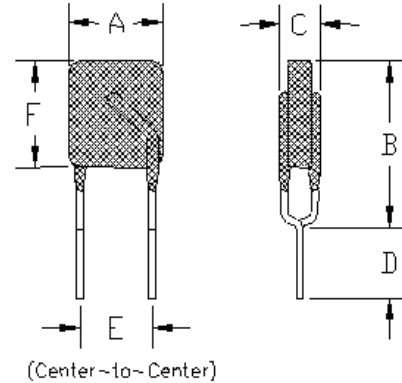
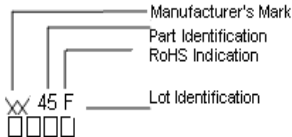
**Lead Material:**

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    | 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 <sub>DC</sub> |     |
|------------------|------------------|----------------|-------|---------------------|------------------------|-----|----------------------------|-----|---|-----|
|                  |                  | R MIN          | R MAX | R <sub>1</sub> MAX* | TYP                    | MAX | MIN                        | MAX | TYP   | MAX |
| 0.145            | 0.290            | 5.4            | 7.5   | 14.0                | 1.5                    | 2.5 | -40                        | 85  | 0.8   | 0.9 |

\*Post Trip Resistance measured after one hour.

**TABLE III. APPLICABLE PART DESCRIPTIONS:**

| PART DESCRIPTION  | PACKAGING TYPE | NOTES |
|-------------------|----------------|-------|
| TRF250-145T-B-0.5 | Bulk           | N/A   |

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

**Materials Information**

ROHS Compliant

ELV Compliant

Pb-Fre

Directive 2002/95/EC Compliant

Directive 2000/53/EC Compliant



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