

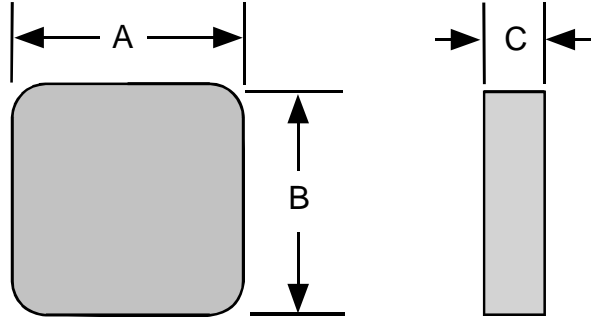
**Specification Status: Released**

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

**Fault Ratings at 20°C:**  
250V<sub>RMS</sub>, 3A, 10 applications

**Additional Info at 20°C:**

- Resistance matched: N/A
- Lightning withstand:
  - ITU-T K.20/K21 - 1.5 kV
  - ITU-T K.20/K21 - 4.0 kV when tested with 230V GDT primary protector
- Helps equipment meet ITU-T K.20/K.21 specifications



**Marking:**  
None

**TABLE I. DIMENSIONS:**

|      | A      |        | B      |        | C      |        |
|------|--------|--------|--------|--------|--------|--------|
|      | MIN    | MAX    | MIN    | MAX    | MIN    | MAX    |
| mm:  | 6.9    | 7.1    | 6.9    | 7.1    | 1.3    | 1.6    |
| in*: | (0.27) | (0.28) | (0.27) | (0.28) | (0.05) | (0.06) |

\*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>24 MAX</sub> ** | TYP                       | MAX* | MIN                              | MAX |                                                                |
| 0.180                   | 0.650                  | 1.0            | 2.2   | 4.0                    | 6.3                       | 15.5 | -40                              | 85  | 0.8                                                            |

\* Dependent on Heat Sinking of Mounting Fixture.

\*\*Maximum device resistance at 20°C measured 24 hour post trip

**TABLE III. APPLICABLE PART DESCRIPTIONS:**

| PART DESCRIPTION | PCN # (INTERNAL USE ONLY) | PACKAGING TYPE | NOTES |
|------------------|---------------------------|----------------|-------|
| TCF250-180       | D42331-000                | Bulk           | N/A   |
| TCF250-180-2     | F09744-000                | Tape and Reel  | N/A   |

|                      |                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------|
| Agency Recognitions: | UL                                                                                               |
| 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

