

Menlo Park, CA 94025-1164

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PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TCF250-120T-RA-B-0.5

DOCUMENT: SCD25315 PCN: C06885

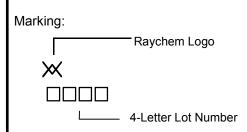
REV LETTER: E

REV DATE: MAY 13, 2011 PAGE NO.: 1 OF 1

Specification Status: Released

Max Electrical Rating at 20°C

Operating Voltage: 60V_{DC} Fault Voltage: 250V_{RMS} Interrupt Current: 3A_{RMS}



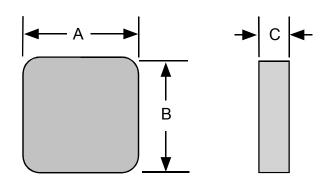


TABLE I. DIMENSIONS:

| | Α | | E | 3 | С | | |
|-----|---------|---------|---------|---------|---------|---------|--|
| | MIN | MAX | MIN | MAX | MIN | MAX | |
| mm: | 5.4 | 5.6 | 5.4 | 5.6 | 2.0 | 2.3 | |
| in: | (0.213) | (0.221) | (0.213) | (0.221) | (0.079) | (0.091) | |

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

| IHOLD (A)** | | RESISTANCE (Ω) | | | TIME TO TRIP (s) | | OPERATING | |
|-------------|-------|----------------|-------|----------------------|------------------|-----|------------------|-----|
| | | | | | @ 1A | | TEMPERATURE (°C) | |
| 20°C | 40°C | R MIN | R MAX | R _{1 MAX} * | TYP | MAX | MIN | MAX |
| | 0.110 | 6.3 | 9.3 | 16.0 | 0.7 | 1.2 | -40 | 85 |

^{*} Maximum device resistance at 20°C measured 1 hour post trip.

Additional Ratings @ 20°C

Resistance Matched 0.5 Ohm

Lightning Withstand ITU AT 1.5kV

Reference Documents:

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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^{**} Dependent on Heat Sinking of Mounting Fixture.