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PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TCF250-100T-B-0.5

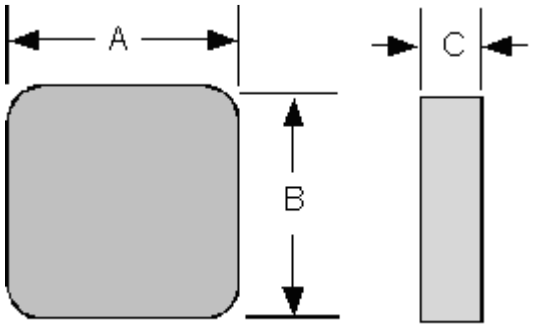
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Specification Status: Released

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:
  - ITU-T K.20, K21 - 1.0 kV
- Helps equipment meet ITU-T K.20 Recommendations
- Helps equipment meet Telcordia GR1089 intrabuilding requirements



Marking:

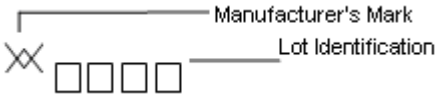


TABLE I. DIMENSIONS:

	A		B		C	
	MIN	MAX	MIN	MAX	MIN	MAX
mm:	4.6	4.9	4.6	4.9	2.0	2.3
in:*	(0.184)	(0.192)	(0.184)	(0.192)	(0.079)	(0.091)

*Rounded off approximation.

TABLE II. PERFORMANCE RATINGS @ 20°C, unless otherwise noted (as measured in test board # T2978):

HOLD CURRENT* (A) @ 40°C	TRIP CURRENT* (A) @ 40°C	RESISTANCE (Ω)			TIME TO TRIP(Sec) @ 1A		OPERATING TEMPERATURE (°C)		TRIPPED POWER DISSIPATION (W) @ $60V_{DC}$*	
		R MIN	R MAX	R_{1MAX}**	TYP	MAX	MIN	MAX	TYP	MAX
0.090	0.150	14.0	18.0	24.0	0.2	0.4	-40	85	0.7	0.8

* Dependent on Heat Sinking of Mounting Fixture.
**Maximum device resistance at 20°C measured 1hour post trip.

TABLE III. APPLICABLE PART DESCRIPTIONS:

PART DESCRIPTION	PACKAGING TYPE	NOTES
TCF250-100T-B-0.5	Bulk	N/A

Agency Recognitions: N/A
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
Directive 2002/95/EC Compliant

ELV Compliant
Directive 2000/53/EC Compliant

Pb-Free

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Specifications are subject to change without notice.
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RF1543-000 SL1011A230A V150LA20AP 0233006.MXP 0242.080UAT1 8.0SMDJ16CA MDSR-4-22-38 37014000430 RF3305-000 PAA140S RF1342-000 RF3304-000 2920L600/12MR DNA30E2200PA SM12-02HTG 03420828H 03540601ZXGY 0481010.HXLP NANOSMDC200F-2 0327020.LXS 1812L260/12MR P3100SBLRP RF2562-000 1812L150/24MR 60R250XF IXTP52P10P RF2682-000 TP5.0SMDJ43CA TPSMD33CA 1.5SMC51CA