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# PolySwitch® PTC Devices

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

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Specification Status: Released

### Operating Conditions at 20°C:

Maximum Continuous Operating Voltage (V<sub>MCO</sub>): 60V<sub>DC</sub> Maximum Interrupt Current (I<sub>INT</sub>): 3A<sub>RMS</sub>

#### Fault Ratings at 20°C:

250 V<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 requirements

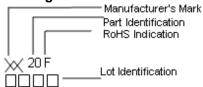
#### Lead Material:

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:



(Center~to~Center)

		Α		В		С		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 L DIMENSIONS

#### TABLE II. PERFORMANCE RATINGS @ 20°C:

HOLD TRIP CURRENT CURRENT		RES	SISTANC	Ε (Ω)	-	TRIP(Sec) 1A	OPERA TEMPER		TRIPPED POWER	
(A)	(A)					(°C)		DISSIPATION (W) @ 60VDC		
		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	1			
	TRF250-120T-RH-B-0.5		Bulk	N/A	l			
	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.						



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**Overcurrent Protection Device** 

Materials Information ROHS Compliant



ELV Compliant Directive 2000/53/EC Compliant



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