



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**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:**

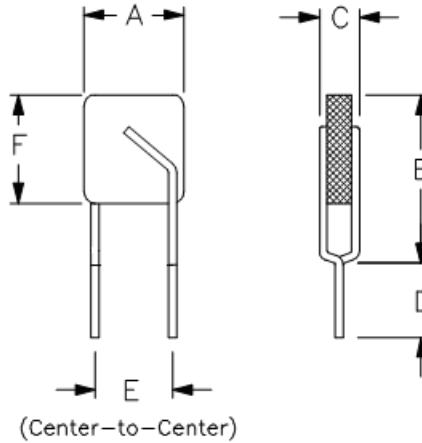
250V<sub>RMS</sub>, 3A, 10 applications

**Additional Info at 20°C:**

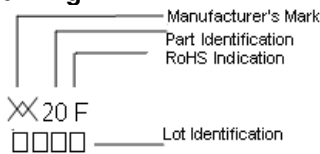
- Resistance matched: n/a
- Lightning withstand: 1.5kV per ITU-T K.20
- Helps equipment meet ITU-T K.20 Recommendations
- Helps equipment meet Telcordia GR1089 intrabuilding requirements

**Lead Material:**

22 AWG Sn-Plated Copper (0.64 mm [0.025"] nominal diameter)



**Marking:**



**TABLE I. DIMENSIONS:**

mm:	A		B		C		D		E	F	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM	MIN	MAX
	--	6.0	--	10.0	--	3.8	4.7	--	5.0	--	6.0
in:*	--	(0.24)	--	(0.39)	--	(0.15)	(0.19)	--	(0.20)	--	(0.24)

\*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	MIN	MAX	TYP
0.120	0.240	6.0	10.0	16.0	1.0	-40	85	0.7	0.8

\*Maximum device resistance at 20°C measured after 1 hour post trip

**TABLE III. APPLICABLE PART DESCRIPTIONS:**

PART DESCRIPTION	PACKAGING TYPE	NOTES
TRF250-120U	Bulk	N/A
TRF250-120U-2	Bulk	N/A

Agency Recognitions: UL (File #E74889), CSA (File #78165C), TUV  
 Reference Documents: PS300, ITU-T K.20  
 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





Expertise Applied | Answers Delivered

**PolySwitch®**  
**PTC Devices**  
**Overcurrent Protection Device**

**PRODUCT: TRF250-120U**

DOCUMENT: SCD26217  
REV LETTER: F  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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