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## Radial Leaded PTC Resettable Fuse: FRX 160-90F

#### 1. Summary

- (a) RoHS Compliant (Lead Free) Product
- (b) Applications: Telecom and wide variety of electronic equipment.
- (c) Product Features: Low hold current, Solid state, Radial leaded product ideal for up to 90V
- (d) Operation Current: 1.6A (e) Maximum Voltage: Up to 90V
- (f) Temperature Range : -40°C to 85°C

#### 2. Agency Recognition

UL: E211981 C-UL: E211981 TÜV: R 50004084

#### 3. Electrical Characteristics (23°℃)

Part	Hold			Maximum				Typical			
Number	Current	Current	to Trip	Current		Power	RMIN	R1MAX			
	IH,A	lτ,Α	at 5xlH	Imax,A	V <sub>MAX</sub> ,Vdc	Pd, W	ohms	ohms			
FRX160-90F	1.60	3.20	11.4	40	72/90	1.90	0.09	0.22			

I<sub>H</sub>=Hold current-maximum current at which the device will not trip at 23 ℃ still air. I<sub>T</sub>=Trip current-minimum current at which the device will always trip at 23℃ still air.

V<sub>MAX</sub>=Maximum voltage device can withstand without damage at its rated current.

I MAX= Maximum fault current device can withstand without damage at rated voltage (V MAX). Pd=Typical power dissipated from device when in tripped state in 23°C still air environment.

R<sub>MIN</sub>=Minimum device resistance at 23°C

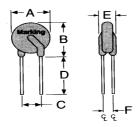
R1<sub>MAX</sub>=Maximum device resistance at 23°C, 1 hour after tripping.

Physical specifications:

Lead material: Tin plated copper, 20 AWG. Soldering characteristics:MIL-STD-202, Method 208E.

Insulating coating:Flame retardant epoxy, meets UL-94V-0 requirement.

### 4. Production Dimensions (millimeter)



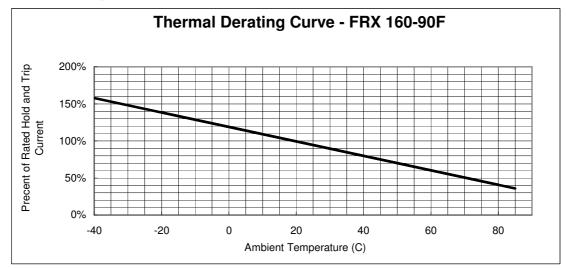
FRX 160-90F Lead Size: 20AWG Φ 0.81 mm Diameter

Part	Α	В	С	D	E	F
Number	Maximum	Maximum	Typical	Minimum	Maximum	Typical
FRX160-90F	16.3	21.3	5.1	7.6	3.1	1.4

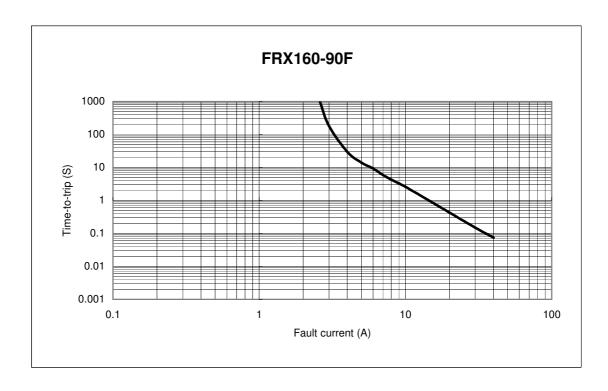
NOTE: Specification subject to change without notice.

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# 5. Thermal Derating Curve



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#### 7. Material Specification

**Part Numbering System** 

Lead material: Tin plated copper, 20 AWG.

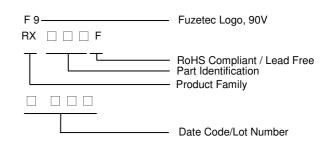
Soldering characteristics:MIL-STD-202, Method 208E.

Insulating coating:Flame retardant epoxy, meets UL-94V-O requirement

# 8. Part Numbering and Marking System

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#### **Part Marking System**



**Warning: -**Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.

Example



- -PPTC device are intended for occasional overcurrent protection. Application for repeated overcurrent condition and/or prolonged trip are not anticipated.
- Avoid contact of PPTC device with chemical solvent. Prolonged contact will damage the device performance.

NOTE: Specification subject to change without notice.