Features

- Radial Leaded Devices
- High voltage surge capabilities
- Binned and sorted resistance ranges
- Assists in complying with ITU K.20/K.21 specifications
- Withstands lightning power induction
- Agency recognition:

Applications

Used as a secondary overcurrent protection device in:

- Customer Premise Equipment (CPE)
- Central Office (CO)
- Subscriber Line Interface Cards (SLIC)

PFRT Series - Telecom PTC Resettable Fuses

Electrical Characteristics

Model	Max. Operating Voltage	Max. Interrupt Ratings		Hold Current	Initial Resistance		One Hour Post-Trip Resistance
	Volts	Volts (V)	Amps (A)	Amps at 23°C	Ohms at 23°C	Ohms at 23°C	Ohms at 23°C
		Max.	Max.	I_H	Min.	Max.	
* PFRT.008.250.U	60	250	3.0	0.08	14.0	20.0	33.0
* PFRT.008.250	60	250	3.0	0.08	15.0	22.0	33.0
* PFRT.011.250.U	60	250	3.0	0.11	5.0	9.0	16.0
PFRT.012.250	60	250	3.0	0.12	4.0	8.0	16.0
PFRT.012.250.U	60	250	3.0	0.12	6.0	10.0	16.0
* PFRT.014.250	60	250	3.0	0.14	3.0	6.0	12.0
* PFRT.014.250.U	60	250	3.0	0.14	3.5	6.5	12.0
* PFRT.018.250.U	60	250	10.0	0.18	0.8	2.0	4.0

*** preliminary**

Environmental Characteristics

Operating/Storage Temperature	-45°C to +85°C	
Maximum Device Surface Temperature in Tripped State	125°C	
Passive Aging	+85°C, 1000 hours	±2% typical resistance change
	+60°C, 1000 hours	±3% typical resistance change
Humidity Aging	+85°C, 85% R.H. 500 hours	±3% typical resistance change
Thermal Shock	MIL-STD-202F, Method 107G,	±10% typical resistance change
	+125°C to -55°C,10 times	±15% typical resistance change
Solvent Resistance	MIL-STD-202, Method 215B	No change
Lead Solerability	ANSI/J-STD-002	
Flammability	IEC 695-2-2	No Flame for 60 secs.
Vibration	MIL-STD-883C, Method 2007.1, Condition A	No change

Test Procedures And Requirements For Model PFRT Series

Test	Test Conditions	Accept/Reject Criteria
Visual/Mech.	Verify dimensions and materials	Per MF physical description
Resistance	In still air @ 23°C	Rmin ≤ R ≤ Rmax
Time to Trip	5 times Ihold, Vmax, 23°C	T ≤ max. time to trip (seconds)
Hold Current	30 min. at Ihold	No trip
Trip Cycle Life	Vmax, Imax, 100 cycles	No arcing or burning
Trip Endurance	Vmax, 48 hours	No arcing or burning

UL File Number	E 174545S*
CSA File Number	CA 110338
TÜV File Number	R2057213

Thermal Derating Chart - I_{hold} (Amps)

Model	Ambient Operating Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
* PFRT.008.250	0.124	0.110	0.095	0.080	0.066	0.059	0.051	0.044	0.033
* PFRT.011.250	0.171	0.151	0.131	0.110	0.091	0.081	0.071	0.061	0.046
PFRT.012.250	0.186	0.165	0.143	0.120	0.099	0.088	0.077	0.066	0.050
* PFRT.014.250	0.255	0.199	0.172	0.145	0.119	0.106	0.093	0.080	0.060
* PFRT.018.250	0,269	0.240	0.211	0.180	0.153	0.138	0.123	0.109	0.087

***I_{trip} is approximately two times I_{hold}.**

*** preliminary**

PFRT Series - Telecom PTC Resettable Fuses

SCHURTER

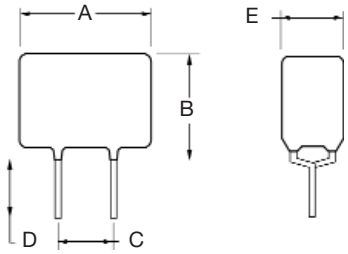
Product Dimensions

Model	A Max.	B Max.	C Max.	D Nom.	E Nom.	Physical Characteristics		
						Style	Lead Dia.	Material
* PFRT.008.250.U	4.8 (0.189)	9.1 (0.358)	5.1 ± 0.7 (0.201 ± 0.028)	4.7 (0.185)	5.0 (0.197)	1	0.65 (0.026)	Sn/Cu
* PFRT.008.250	5.3 (0.209)	9.3 (0.366)	5.1 ± 0.7 (0.201 ± 0.028)	4.7 (0.185)	5.0 (0.197)	1	0.65 (0.026)	Sn/Cu
* PFRT.011.250.U	5.3 (0.209)	9.4 (0.370)	5.1 ± 0.7 (0.201 ± 0.028)	4.7 (0.185)	5.0 (0.197)	1	0.65 (0.026)	Sn/Cu
PFRT.012.250	6.5 (0.256)	11.0 (0.433)	5.1 ± 0.7 (0.201 ± 0.028)	4.7 (0.185)	5.0 (0.197)	1	0.65 (0.026)	Sn/Cu
PFRT.012.250.U	6.0 (0.236)	10.0 (0.394)	5.1 ± 0.7 (0.201 ± 0.028)	4.7 (0.185)	5.0 (0.197)	1	0.65 (0.026)	Sn/Cu
* PFRT.014.250	6.5 (0.256)	11.0 (0.433)	5.1 ± 0.7 (0.201 ± 0.028)	4.7 (0.185)	5.0 (0.197)	1	0.65 (0.026)	Sn/Cu
* PFRT.014.250.U	6.0 (0.236)	10.0 (0.394)	5.1 ± 0.7 (0.201 ± 0.028)	4.7 (0.185)	5.0 (0.197)	1	0.65 (0.026)	Sn/Cu
* PFRT.018.250.U	6.0 (0.236)	10.0 (0.394)	5.1 ± 0.7 (0.201 ± 0.028)	4.7 (0.185)	5.0 (0.197)	1	0.65 (0.026)	Sn/Cu

Packaging options:
BULK: 500 pcs. per bag. TAPE & REEL: 3000 pcs. per reel.

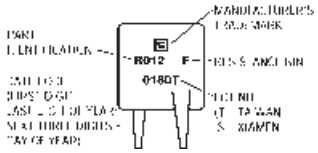
DIMENSIONS = MM (INCHES)

*** preliminary**

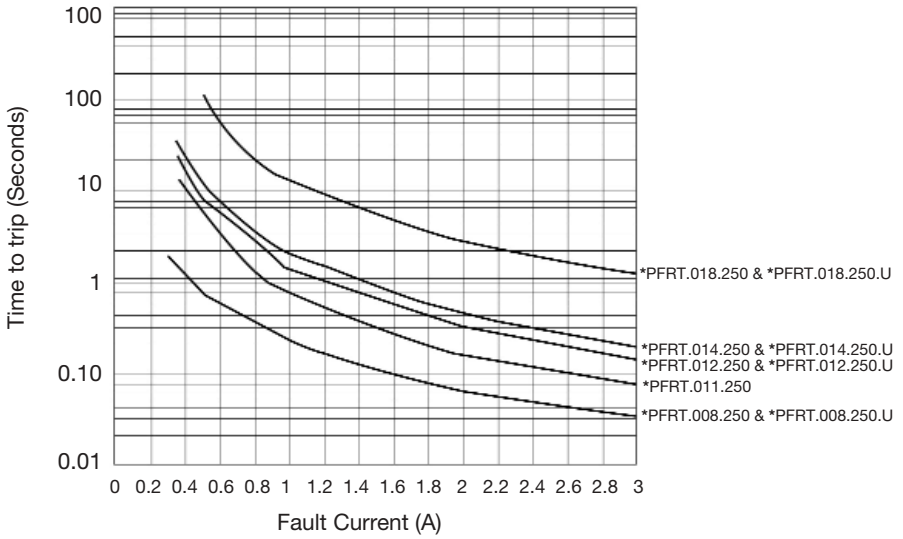


Typical Part Marking

Represents total content. Layout may vary.



Typical Time to Trip at 23°C



How to Order

PF RT .xxx .250 .x .x .x

PTC-Fuse

Series
RT = Radial Leaded Telecom Component

Hold Current, Ihold
008-018 (0.08-018 Amps)

Max. Interrupt Voltage
250 (250V)

Resistance Sorted
E = 7-12 Ω
F = 6-10 Ω
G = 6-9 Ω
H = 8-10.5 Ω

.B = Bare Disc
.U = Uncoated Parts

- = Bulk Packaging
.2 = Tape & Reel

NOTE: All parts are also available "binned". All parts within a package will be within 0.5Ω of each other within the initial resistance range.