



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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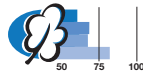
FUSES

Resettable fuses

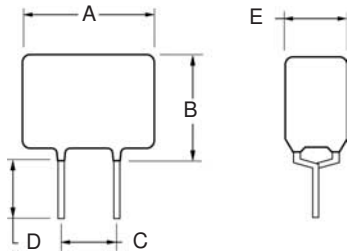
PFRT

Wire leaded PTC-Fuses Type PFRT

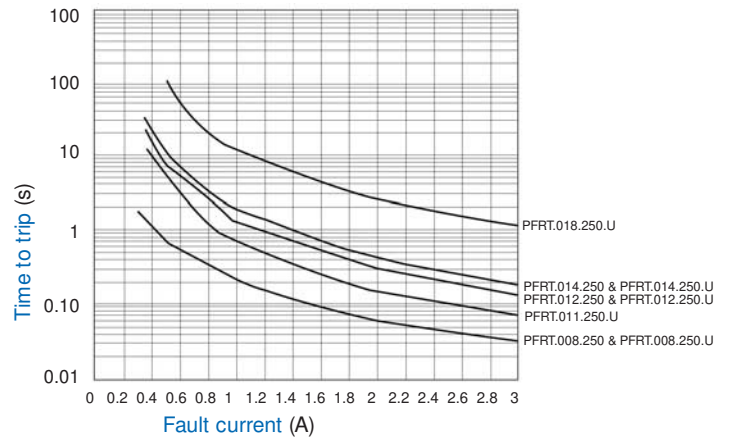
High voltage surge capabilities
Compliance to ITU K.20/K.21 specifications
Agency recognition: UL, CSA, TÜV



Dimensions

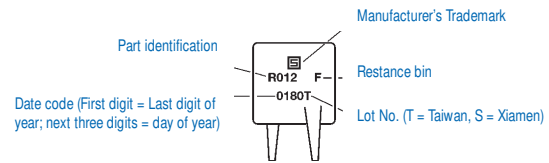


Typical Time to Trip at 23 °C



Typical Part Marking

Layout may vary



Applications

- Used as a secondary overcurrent protection device in:
- Customer Premise Equipment (CPE)
 - Central Office (CO)
 - Subscriber Line Interface Cards (SLIC)

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 +60 °C, 1000 hours	± 2% typ. resist. change ± 3% typ. resist. change
Humidity Aging	+85 °C, 85% R.H. 500 hours	± 3% typ. resist. change
Thermal Shock	MIL-STD-202F, Method 107G +125 °C/-55 °C, 10 times	±10% typ. resist. change ±15% typ. resist. 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 sec.
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	$R_{min} \leq R \leq R_{max}$
Time to Trip	5 times I_{hold} ; V_{max} 23 °C	$T \leq \text{max. time to trip (sec.)}$
Hold Current	30 min. at I_{hold}	No trip
Trip Cycle Life	V_{max} , I_{max} , 100 cycles	No arcing or burning
Trip Endurance	V_{max} , 48 hours	No arcing or burning

Electrical Characteristics

Type	Max. Oper. Voltage	Max. Interrupt Ratings		Hold Current	Initial Resistance		One Hour Post-Trip Resistance
	Volts	Volts max.	Amps max.	Amps at 23 °C I_h	Ohms at 23 °C min.	Ohms at 23 °C max.	Ohms at 23 °C
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

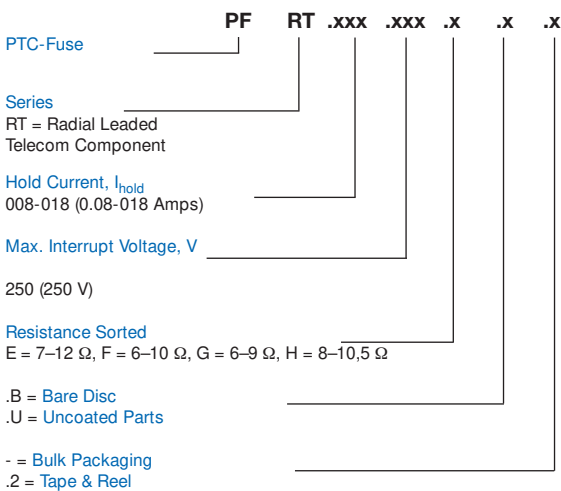
Dimensions

Type	A		B		C		D		E		Physical Characteristics		
	max.	max.	max.	max.	nom.	nom.	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 and reel: 3000 pcs. per reel

Dimensions in mm/inches

How To Order



Thermal Derating Chart- I_{hold} (Amps)

Type	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	0.091	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