

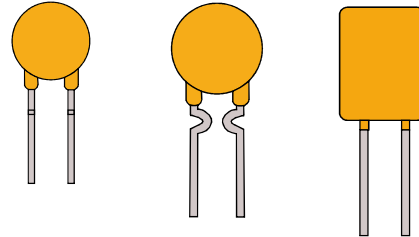
Radial Leaded | Round/Square size

PR600 Series

Polymer Positive Temperature Coefficient Thermistor

Features

- Low voltage over-current protection
- Working current: 0.03A-0.50A
- Impulse voltage: 600V
- In line with RoHS certification, halogen-free product
- Tinned Copper wire



Electrical Performance

Product model	IH (A)	IT (A)	Vmax (V)	Imax (A)	Max Time Trip		Pd typ (W)	RMin (Ω)	R1Max (Ω)
					(A)	(S)			
PR600-003	0.03	0.06	600	1	0.50	5.00	1.00	90.00	374.0
PR600-005	0.05	0.10	600	1	0.50	8.00	1.00	30.00	153.0
PR600-006	0.06	0.12	600	1	0.50	10.0	1.00	20.00	90.00
PR600-008	0.08	0.16	600	1	0.50	8.00	1.00	10.00	68.00
PR600-011	0.11	0.22	600	1	0.55	5.00	1.50	10.00	32.30
PR600-012	0.12	0.24	600	1	0.60	5.00	1.50	8.00	25.50
PR600-015	0.15	0.30	600	1	1.00	5.00	1.50	6.00	20.40
PR600-016	0.16	0.32	600	1	1.00	5.00	1.50	4.00	17.00
PR600-018	0.18	0.36	600	1	0.90	8.00	1.50	3.00	13.60
PR600-020	0.20	0.40	600	3	1.00	10.0	1.50	2.00	18.70
PR600-030	0.30	0.60	600	3	1.50	15.0	1.50	3.10	9.18
PR600-040	0.40	0.80	600	3	2.00	15.0	1.50	2.80	6.80
PR600-050	0.50	1.00	600	3	2.50	15.0	1.50	2.50	6.75

I_H = Hold current: maximum current at which the device will not trip at 23°C still air.
 I_T = Trip current: minimum current at which the device will always trip at 23°C still air.
 V_{max} = Maximum continuous voltage device can withstand without damage at rated current
 I_{max} = Maximum fault current device can withstand without damage at rated voltage.

T_{trip} = Maximum time to trip(s) at assigned current.
 P_{dtyp} = Typical power dissipation: typical amount of power dissipated by the device when in state air environment.
 R_{min} = Minimum resistance of device in initial (un-soldered) state.
 R_{1max} = Maximum resistance of device at 23°C measured one hour after reflow.

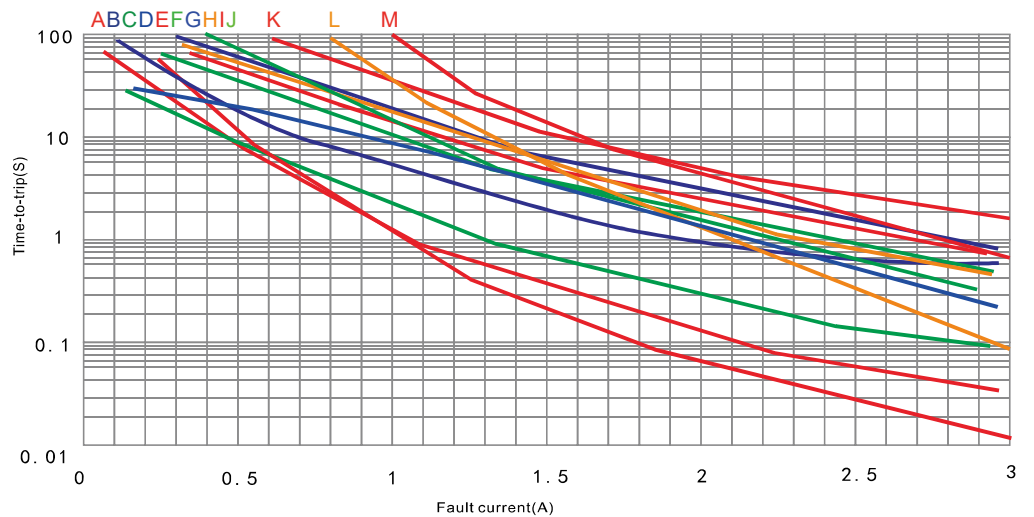
Noted: All electrical function test is conducted after PCB mounted.

Thermal Derating Chart Hold Current (A)

Part Number	Ambient Operating Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
PR600-003	0.048	0.041	0.036	0.030	0.025	0.022	0.019	0.016	0.012
PR600-005	0.079	0.069	0.060	0.050	0.042	0.037	0.032	0.027	0.020
PR600-006	0.095	0.083	0.071	0.060	0.050	0.044	0.038	0.032	0.024
PR600-008	0.126	0.110	0.095	0.080	0.066	0.058	0.051	0.043	0.032
PR600-011	0.174	0.152	0.131	0.110	0.091	0.080	0.070	0.059	0.044
PR600-012	0.190	0.166	0.143	0.120	0.100	0.088	0.077	0.065	0.048
PR600-015	0.237	0.207	0.179	0.150	0.125	0.110	0.096	0.081	0.060
PR600-016	0.253	0.221	0.190	0.160	0.133	0.117	0.102	0.086	0.064
PR600-018	0.284	0.248	0.214	0.180	0.149	0.131	0.115	0.097	0.072
PR600-020	0.316	0.276	0.238	0.200	0.166	0.146	0.128	0.108	0.080
PR600-030	0.474	0.414	0.357	0.300	0.249	0.219	0.192	0.162	0.120
PR600-040	0.632	0.552	0.476	0.400	0.332	0.292	0.256	0.216	0.160
PR600-050	0.790	0.690	0.595	0.500	0.415	0.365	0.320	0.270	0.200

Typical time to trip at 23°C

- A=PR600-003
- B=PR600-005
- C=PR600-006
- D=PR600-008
- E=PR600-011
- F=PR600-012
- G=PR600-015
- H=PR600-016
- I=PR600-018
- J=PR600-020
- K=PR600-030
- L=PR600-040
- M=PR600-050

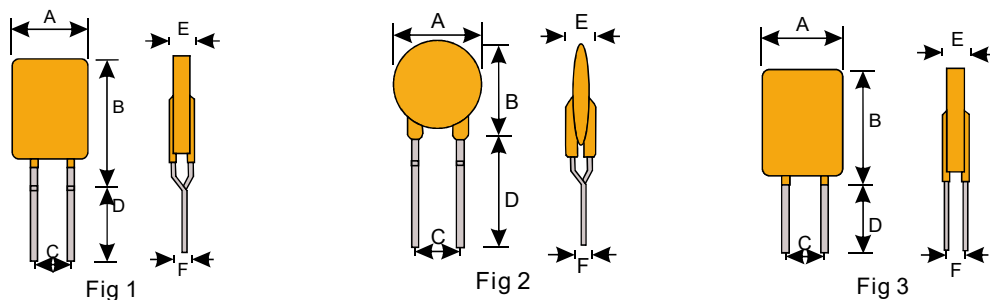


Radial Led | Round/Square size

Polymer Positive Temperature Coefficient

PR600 Series

Size(mm)



Product model	A	B	C	D	E	F	Lead Φ	FIG	Package QTY
	max	max	typ	min	max	typ			
PR600-003	7.00	14.50	5.10	7.60	6.50	/	0.60	1	1000PCS
PR600-005	7.00	14.50	5.10	7.60	6.50	/	0.60	1	1000PCS
PR600-006	11.00	17.50	5.10	7.60	6.50	/	0.60	2	1000PCS
PR600-008	11.00	17.50	5.10	7.60	6.50	/	0.60	2/3	1000PCS
PR600-011	7.00	14.50	5.10	7.60	6.50	/	0.60	1	1000PCS
PR600-012	14.50	16.50	5.10	7.60	6.50	/	0.80	1	500PCS
PR600-015	14.50	16.50	5.10	7.60	6.50	/	0.80	1	500PCS
PR600-016	14.50	16.50	5.10	7.60	6.50	/	0.80	1	500PCS
PR600-018	14.50	16.50	5.10	7.60	6.50	/	0.80	1	500PCS
PR600-020	9.50	22.00	5.10	7.60	6.50	/	0.80	1	500PCS
PR600-030	18.50	25.50	10.20	7.60	6.50	2.20	0.80	3	100PCS
PR600-040	18.50	25.50	10.20	7.60	6.50	2.20	0.80	3	100PCS
PR600-050	18.50	25.50	10.20	7.60	6.50	2.20	0.80	3	100PCS

Regular Service Condition

1. Operating ambient temperature:-40°C~85°C.
2. Exceeding the applicable conditions of this product or other improper use may cause damage, or even cause electric breakdown or flame.
3. PPTC components are designed for occasional over-current in the circuit and are not recommended for continuous and continuous over-current circuits.
4. Avoid contact of PPTC components with chemical solvents. Prolonged contact will damage the performance of the components.