



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



PTC THERMISTORS: TYPE PTF

OVER-CURRENT PROTECTION

DESCRIPTION:

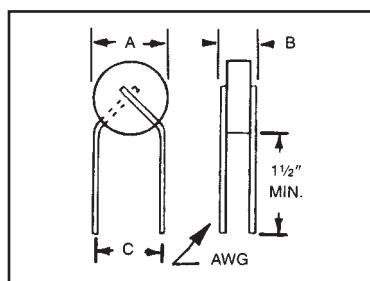
PTC disc thermistor for overcurrent and short-circuit protection



FEATURES:

- Low cost solid state fuse
- Available in a broad range of resistances, transition temperatures and voltage ratings
- Exhibits large positive increases in resistance with temperature
- Wide range of trip and non-trip currents; from 30mA to 2.3 amps
- Resistance/temperature characteristic is infinitely repeatable and has no hysteresis associated with its action
- Proven quality and reliability over many years of manufacture
- Standard options include protective coating and tape and reeled to EIA RS-468A

DIMENSIONS:



Operating Voltage	R25°C (±20%)	Type	Minimum Switch Current		Maximum No-Switch Current		"H" Joules/°C	D.C. mW/°C	A (max)		B (max)		C ref.		AWG No.
			0°C	25°C	25°C	55°C			in.	mm.	in.	mm.	in.	mm.	
5	0.5	RL6505-0.5-110-5-PTF	2.32	2.07	1.40	1.02	0.8	18	0.70	17.8	0.16	4.1	0.33	8.4	20
12	1.0	RL5305-1.0-110-12-PTF	1.45	1.29	0.87	0.64	0.6	14	0.60	15.2	0.15	3.8	0.33	8.4	22
12	2.5	RL5305-2.5-110-12-PTF	0.92	0.82	0.55	0.40	0.6	14	0.60	15.2	0.16	4.1	0.33	8.4	20
12	5.0	RL4005-5.0-110-12-PTF	0.55	0.49	0.33	0.24	0.3	10	0.45	11.4	0.15	3.8	0.25	6.4	24
12	10.0	RL3005-10-110-12-PTF	0.32	0.29	0.19	0.14	0.2	7	0.35	8.9	0.15	3.8	0.25	6.4	24
12	25.0	RL3005-25-110-12-PTF	0.20	0.18	0.12	0.09	0.2	7	0.35	8.9	0.15	3.8	0.25	6.4	24
12	1.0	RL5004-1.0-120-12-PTF	1.40	1.25	0.87	0.67	0.4	12.0	0.59	15.0	0.14	3.6	0.25	6.4	24
12	2.5	RL3104-2.5-120-12-PTF	0.65	0.58	0.40	0.31	0.2	6.5	0.41	10.4	0.14	3.6	0.15	3.8	24
12	5.0	RL2204-5.0-120-12-PTF	0.37	0.34	0.23	0.18	0.1	4.3	0.29	7.4	0.14	3.6	0.10	2.5	24
12	10.0	RL1604-10-120-12-PTF	0.22	0.20	0.13	0.10	0.04	2.9	0.23	5.8	0.14	3.6	0.10	2.5	24
12	25.0	RL1004-25-120-12-PTF	0.11	0.09	0.07	0.05	0.02	1.7	0.17	4.3	0.14	3.6	0.07	1.8	24
25	1.5	RL7008-1.5-110-25-PTF	1.34	1.19	0.81	0.59	1.50	18	0.75	19.1	0.18	4.6	0.33	8.4	20
25	3.0	RL5008-3.0-110-25-PTF	0.84	0.74	0.50	0.37	0.80	14	0.55	14.0	0.18	4.6	0.33	8.4	22
25	0.5	RL6904-0.5-120-25-PTF	2.41	2.16	1.49	1.16	0.8	17.8	0.75	19.1	0.14	3.6	0.33	8.4	22
25	1.0	RL4904-1.0-120-25-PTF	1.39	1.25	0.86	0.67	0.4	11.9	0.55	14.0	0.14	3.6	0.33	8.4	22
25	1.5	RL4004-1.5-120-25-PTF	1.00	0.90	0.62	0.48	0.3	9.2	0.46	11.7	0.14	3.6	0.25	6.4	24
25	3.0	RL2804-3.0-120-25-PTF	0.56	0.50	0.34	0.27	0.1	5.7	0.34	8.6	0.14	3.6	0.15	3.8	24
25	5.0	RL2204-5.0-120-25-PTF	0.37	0.34	0.23	0.18	0.1	4.3	0.28	7.1	0.14	3.6	0.15	3.8	24
50	5.0	RL5506-5.0-110-50-PTF	0.65	0.58	0.39	0.29	0.7	14	0.60	15.2	0.16	4.1	0.33	8.4	22
50	10.0	RL4006-10-110-50-PTF	0.39	0.34	0.23	0.17	0.4	10	0.45	11.4	0.17	4.3	0.25	6.4	24
50	25.0	RL4508-25-110-50-PTF	0.27	0.24	0.16	0.12	0.6	12	0.50	12.7	0.18	4.6	0.33	8.4	22
50	50.0	RL4010-50-110-50-PTF	0.19	0.17	0.11	0.08	0.6	12	0.45	11.4	0.20	5.1	0.33	8.4	22
50	100.0	RL3810-100-110-50-PTF	0.13	0.12	0.08	0.06	0.6	12	0.42	10.7	0.20	5.1	0.25	6.4	24
50	200.0	RL3312-200-110-50-PTF	0.08	0.07	0.05	0.04	0.5	9	0.40	10.2	0.23	5.8	0.25	6.4	20



PTC THERMISTORS: TYPE PTF

OVER-CURRENT PROTECTION

Operating Voltage	R _{25°C} (±20%)	Type	Minimum Switch Current		Maximum No-Switch Current		"H" Joules/°C	D.C. mW/C	A (max)		B (max)		C ref.		AWG No.
			0°C	25°C	25°C	55°C			in.	mm.	in.	mm.	in.	mm.	
50	1.0	RL7005-1.0-120-50-PTF	1.76	1.58	1.09	0.84	1.1	19.0	0.75	19.1	0.15	3.8	0.33	8.4	22
50	2.5	RL4505-2.5-120-50-PTF	0.87	0.78	0.54	0.42	0.5	11.7	0.50	12.7	0.15	3.8	0.33	8.4	24
50	5.0	RL3205-5.0-120-50-PTF	0.48	0.43	0.30	0.23	0.2	7.1	0.37	9.4	0.15	3.8	0.25	6.4	24
50	10.0	RL2505-10-120-50-PTF	0.30	0.27	0.18	0.14	0.1	5.4	0.30	7.6	0.15	3.8	0.15	3.8	24
50	25.0	RL1605-25-120-50-PTF	0.14	0.13	0.09	0.07	0.1	3.2	0.21	5.3	0.15	3.8	0.15	3.8	24
50	50.0	RL1604-50-120-50-PTF	0.10	0.09	0.06	0.05	0.1	3.2	0.21	5.3	0.14	3.6	0.15	3.8	24
50	100.0	RL1604-100-120-50-PTF	0.07	0.06	0.04	0.03	0.1	3.2	0.21	5.3	0.14	3.6	0.15	3.8	24
50	200.0	RL1604-200-120-50-PTF	0.06	0.05	0.03	0.02	0.1	3.2	0.21	5.3	0.14	3.6	0.15	3.8	24
120	10.0	RL7510-10-110-120-PTF	0.55	0.49	0.33	0.24	2.2	20	0.80	20.3	0.23	5.8	0.33	8.4	24
120	20.0	RL6010-20-110-120-PTF	0.37	0.33	0.22	0.16	1.4	18	0.65	16.5	0.23	5.8	0.33	8.4	20
120	50.0	RL4510-50-110-120-PTF	0.19	0.17	0.11	0.08	0.8	12	0.50	12.7	0.20	5.1	0.33	8.4	20
120	100.0	RL3510-100-110-120-PTF	0.13	0.11	0.08	0.06	0.5	11	0.40	10.2	0.20	5.1	0.25	6.4	22
120	2.5	RL8908-2.5-120-120-PTF	1.32	1.18	0.82	0.63	2.7	26.7	0.94	23.9	0.18	4.6	0.33	8.4	22
120	5.0	RL6308-5.0-120-120-PTF	0.76	0.68	0.47	0.37	1.4	17.8	0.68	17.3	0.18	4.6	0.33	8.4	20
120	10.0	RL4508-10-120-120-PTF	0.44	0.40	0.27	0.21	0.7	12.0	0.50	12.7	0.18	4.6	0.33	8.4	22
120	20.0	RL3008-20-120-120-PTF	0.25	0.23	0.16	0.12	0.4	7.8	0.35	8.9	0.18	4.6	0.25	6.4	24
120	50.0	RL2008-50-120-120-PTF	0.14	0.13	0.09	0.07	0.1	6.0	0.25	6.4	0.18	4.6	0.15	3.8	24
120	100.0	RL1706-100-120-120-PTF	0.09	0.08	0.05	0.04	0.1	4.3	0.23	5.8	0.16	4.1	0.15	3.8	24
240	50.0	RL6315-50-110-240-PTF	0.23	0.21	0.14	0.10	2.3	18	0.65	16.5	0.27	6.9	0.33	8.4	18
240	100.0	RL6315-100-110-240-PTF	0.16	0.15	0.10	0.07	2.3	18	0.65	16.5	0.27	6.9	0.33	8.4	18
240	250.0	RL6315-250-110-240-PTF	0.10	0.09	0.06	0.05	2.3	18	0.65	16.5	0.27	6.9	0.33	8.4	18
240	2.5	RL9912-2.5-120-240-PTF	1.46	1.31	0.90	0.70	4.6	32.6	1.04	26.4	0.22	5.6	0.33	8.4	20
240	5.0	RL8311-5.0-120-240-PTF	0.95	0.85	0.59	0.46	3.5	27.7	0.88	22.4	0.21	5.3	0.33	8.4	20
240	10.0	RL6011-10-120-240-PTF	0.53	0.48	0.33	0.26	1.7	17.6	0.65	16.5	0.21	5.3	0.33	8.4	22
240	20.0	RL4211-20-120-240-PTF	0.31	0.28	0.19	0.15	0.9	12.1	0.47	11.9	0.21	5.3	0.33	8.4	24
240	50.0	RL2611-50-120-240-PTF	0.16	0.14	0.10	0.08	0.2	8.0	0.31	7.9	0.21	5.3	0.25	6.4	24
240	100.0	RL2610-100-120-240-PTF	0.11	0.10	0.07	0.05	0.2	8.0	0.31	7.9	0.20	5.1	0.25	6.4	24
240	250.0	RL2610-250-120-240-PTF	0.07	0.06	0.04	0.03	0.2	8.0	0.31	7.9	0.20	5.1	0.25	6.4	24
480	25.0	RL6017-25-120-480-PTF	0.35	0.32	0.22	0.17	2.4	19.1	0.65	16.5	0.27	6.9	0.33	8.4	22
480	50.0	RL4217-50-120-480-PTF	0.21	0.19	0.13	0.10	1.3	13.3	0.47	11.9	0.27	6.9	0.33	8.4	24
480	100.0	RL3517-100-120-480-PTF	0.13	0.12	0.08	0.06	0.8	10.7	0.41	10.4	0.27	6.9	0.25	6.4	24
480	200.0	RL3517-200-120-480-PTF	0.09	0.08	0.06	0.04	0.8	10.7	0.41	10.4	0.27	6.9	0.25	6.4	24

OPTIONS:

- Protective coating, replace "PTF" suffix with "PFC"
- Tape and reel, replace "PTF" suffix with "PFR"
- Coated and T&R, replace "PTF" suffix with "PFCR"
- Other resistances
- Other tolerances, other transition temperatures
- Alternate size and configurations
- Other voltage ratings