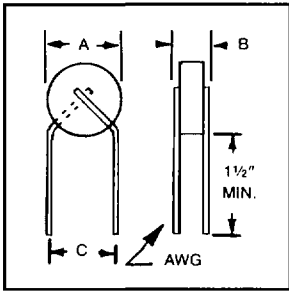


# PTC THERMISTORS: RESETTABLE FUSES



Refer to page 10 for optional designs.

Standard PTC fuses are supplied uninsulated, but can be supplied with an insulation upon request.

Typical applications for PTC fuses:

- Telephone line fault protection
- Fuse for intermittent solenoids
- Over-current protection for transformers
- Locked rotor protection for FHP motors

## STANDARD RESETTABLE FUSES

Operating Voltage	25°C ± 2%	Type	Minimum <sup>1</sup> Switch Current		Maximum <sup>2</sup> No-Switch Current		"H" Joules/°C	D.C. mW/°C	A Max.	B Max.	C Ref.	AWG No.
			0°C	20°C	30°C	55°C						
			5	.5	RL6505-5-110-5-PTF	2.32						
12	1.0	RL5305-1.0-110-12-PTF	1.45	1.32	.84	.64	.6	14	.60	.15	.33	22
	2.5	RL5305-2.5-110-12-PTF	.92	.84	.53	.40	.6	14	.60	.16	.33	20
	5.0	RL4005-5.0-110-12-PTF	.55	.50	.32	.24	.3	10	.45	.15	.25	24
	10.0	RL3005-10-110-12-PTF	.32	.30	.19	.14	.2	7	.35	.15	.25	24
	25.0	RL3005-25-110-12-PTF	.20	.19	.12	.09	.2	7	.35	.15	.25	24
25	1.5	RL7008-1.5-110-25-PTF	1.34	1.22	.77	.59	1.5	18	.75	.18	.33	20
	3.0	RL5008-3.0-110-25-PTF	.84	.76	.48	.37	.8	14	.55	.18	.33	22
50	5.0	RL5506-5.0-110-50-PTF	.65	.59	.37	.29	.7	14	.60	.16	.33	22
	10.0	RL4006-10-110-50-PTF	.39	.35	.22	.17	.4	10	.45	.17	.25	24
	25.0	RL4508-25-110-50-PTF	.27	.24	.15	.12	.6	12	.50	.18	.33	22
	50.0	RL4010-50-110-50-PTF	.19	.17	.11	.08	.6	12	.45	.20	.33	22
	100.0	RL3810-100-110-50-PTF	.13	.12	.08	.06	.6	12	.42	.20	.25	24
	200.0	RL3312-200-110-50-PTF	.09	.08	.05	.04	.5	9	.40	.23	.25	20
120	10.0	RL7510-10-110-120-PTF	.55	.50	.32	.24	2.2	20	.80	.23	.33	20
	20.0	RL6010-20-110-120-PTF	.37	.34	.21	.16	1.4	18	.65	.23	.33	20
	50.0	RL4510-50-110-120-PTF	.19	.17	.11	.08	.8	12	.50	.20	.33	22
	100.0	RL3510-100-110-120-PTF	.13	.12	.07	.06	.5	11	.40	.20	.25	22
240	50.0	RL6315-50-110-240-PTF	.23	.21	.13	.10	2.3	18	.65	.27	.33	18
	100.0	RL6315-100-110-240-PTF	.16	.15	.09	.07	2.3	18	.65	.27	.33	18
	250.0	RL6315-250-110-240-PTF	.10	.09	.06	.05	2.3	18	.65	.27	.33	18

## STD. U.L. RECOGNIZED RESETTABLE FUSES – U.L. FILE E82830-U.L. CATEGORY XGPU2 (THERMISTOR TYPE DEVICES)

Operating Voltage	25°C ± 2%	Type	U.L. Style No.	Minimum <sup>1</sup> Switch Current		Maximum <sup>2</sup> No-Switch Current		"H" Joules/°C	D.C. mW/°C	A Max.	B Max.	C Ref.	AWG No.
				0°C	20°C	30°C	55°C						
				5	.5	RL6505-5-110-5-PTU	L/005-NC-0001/B						
12	1.0	RL5506-1.0-110-12-PTU	L/012-LC-0001/B	1.45	1.32	.84	.64	.7	14	.60	.15	.33	22
	2.5	RL3506-2.5-110-12-PTU	L/012-HC-0003/B	.73	.67	.42	.32	.3	9	.40	.15	.25	24
	5.0	RL2506-5.0-110-12-PTU	L/012-FC-0005/B	.49	.45	.28	.22	.1	8	.30	.15	.15	24
	10.0	RL2006-10-110-12-PTU	L/012-EC-0010/B	.30	.27	.17	.13	.1	6	.25	.15	.15	24
25	1.5	RL7008-1.5-110-25-PTU	L/025-OD-0002/B	1.34	1.22	.77	.59	1.5	18	.75	.18	.33	20
	3.0	RL5008-3.0-110-25-PTU	L/025-KD-0003/B	.84	.76	.48	.37	.8	14	.55	.18	.33	22
50	5.0	RL5508-5.0-110-50-PTU	L/050-LD-0005/B	.65	.59	.37	.29	1.0	14	.60	.17	.33	22
	10.0	RL4008-10-110-50-PTU	L/050-ID-0010/B	.39	.35	.22	.17	.5	10	.45	.17	.25	24
	20.0	RL3008-20-110-50-PTU	L/050-GD-0020/B	.24	.22	.14	.11	.3	8	.35	.16	.25	24
	50.0	RL2008-50-110-50-PTU	L/050-ED-0050/B	.14	.13	.08	.06	.1	7	.25	.16	.15	24
120	10.0	RL7512-10-110-120-PTU	L/120-PF-0010/B	.55	.50	.32	.24	2.7	20	.80	.23	.33	20
	20.0	RL5512-20-110-120-PTU	L/120-LF-0020/B	.32	.30	.19	.14	1.4	14	.60	.23	.33	20
	50.0	RL3512-50-110-120-PTU	L/120-HF-0050/B	.16	.15	.09	.07	.6	9	.40	.22	.25	22
	100.0	RL2512-100-110-120-PTU	L/120-FF-0100/B	.11	.10	.06	.05	.3	8	.30	.22	.15	22
240	50.0	RL6320-50-110-240-PTU	L/240-NH-0050/B	.23	.21	.13	.10	3.1	18	.70	.32	.33	18
	100.0	RL4520-100-110-240-PTU	L/240-JH-0100/B	.14	.13	.08	.06	1.6	13	.50	.30	.33	20
	200.0	RL3020-200-110-240-PTU	L/240-GH-0200/B	.08	.07	.04	.03	.7	8	.35	.29	.25	22

<sup>1</sup> Minimum Switch Current: The minimum current required to switch the PTC at the ambient indicated.

<sup>2</sup> Maximum No-Switch Current: The maximum current that the PTC can pass without switching at the ambient indicated.

NOTE: The current values and dissipation constant listed are for reference only. Actual values are a function of mounting, air flow and other factors which affect the PTC's ability to dissipate heat.

All PTCs from higher voltage rating groups can be used for lower voltage applications.

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