



# PTC THERMISTORS: TYPE PTO

## OVER-CURRENT PROTECTION

### DESCRIPTION:

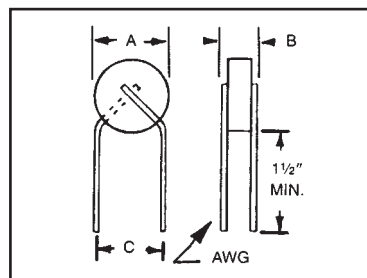
General Purpose PTC disc thermistor.

### FEATURES:

- Low cost solid state sensor
- Available in a broad range of resistances, transition temperatures and voltage ratings
- Exhibits large positive increases in resistance with temperature
- Applications include temperature measurement and control, current regulation and circuit protection
- 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	Type Number	R @ 25°C (±30%)	Ttr (°C)	d.c. (mW/°C)	t.c. (Sec)	H (J/°C)	A (max) in.	A (max) mm.	B (max) in.	B (max) mm.	C (max) in.	C (max) mm.	AWG No.
5	RL6505-5-110-5-PTO	0.5	110	18	70	0.8	0.70	17.80	0.16	4.06	0.33	8.38	20
12	RL5305-1-120-12-PTO	1.0	120	14	50	0.6	0.60	15.24	0.15	3.81	0.33	8.38	20
12	RL5305-2-120-12-PTO	2.0	120	14	50	0.6	0.60	15.24	0.16	4.06	0.33	8.38	20
12	RL5305-2.5-110-12-PTO	2.5	110	14	50	0.6	0.60	15.24	0.16	4.06	0.33	8.38	20
12	RL4005-5.0-110-12-PTO	5.0	110	10	40	0.3	0.45	11.43	0.15	3.81	0.25	6.35	24
12	RL3005-10-110-12-PTO	10	110	7	35	0.2	0.35	8.89	0.15	3.81	0.25	6.35	24
12	RL3005-15-110-12-PTO	15	110	7	35	0.2	0.35	8.89	0.15	3.81	0.25	6.35	24
12	RL2006-20-80-12-PTO	20	80	6	30	0.1	0.25	6.35	0.15	3.81	0.15	3.81	24
12	RL3005-25-110-12-PTO	25	110	7	35	0.2	0.35	8.89	0.15	3.81	0.25	6.35	24
25	RL7008-1.5-110-25-PTO	1.5	110	18	80	1.5	0.75	19.05	0.18	4.57	0.33	8.38	20
25	RL5008-3.0-110-25-PTO	3	110	14	50	0.8	0.55	13.97	0.18	4.57	0.33	8.38	22
25	RL5506-5.0-110-25-PTO	5	110	14	50	0.7	0.60	15.24	0.16	4.06	0.33	8.38	22
25	RL4006-10-110-25-PTO	10	110	10	40	0.4	0.45	11.43	0.17	4.32	0.25	6.35	24
25	RL3006-20-120-25-PTO	20	120	7	35	0.2	0.35	8.89	0.16	4.06	0.25	6.35	22
25	RL3006-30-110-25-PTO	30	110	7	35	0.2	0.35	8.89	0.15	3.81	0.25	6.35	24
25	RL3006-50-30-25-PTO	50	30	7	35	0.2	0.35	8.89	0.15	3.81	0.25	6.35	24
25	RL3006-50-40-25-PTO	50	40	7	35	0.2	0.35	8.89	0.15	3.81	0.25	6.35	24
25	RL3006-50-50-25-PTO	50	50	7	35	0.2	0.35	8.89	0.15	3.81	0.25	6.35	24
25	RL3006-50-60-25-PTO	50	60	7	35	0.2	0.35	8.89	0.15	3.81	0.25	6.35	24
25	RL3006-50-70-25-PTO	50	70	7	35	0.2	0.35	8.89	0.15	3.81	0.25	6.35	24
25	RL3006-50-80-25-PTO	50	80	7	35	0.2	0.35	8.89	0.15	3.81	0.25	6.35	24
25	RL3006-50-90-25-PTO	50	90	7	35	0.2	0.35	8.89	0.15	3.81	0.25	6.35	24
25	RL3006-50-100-25-PTO	50	100	7	35	0.2	0.35	8.89	0.15	3.81	0.25	6.35	24
25	RL3006-50-110-25-PTO	50	110	7	35	0.2	0.35	8.89	0.15	3.81	0.25	6.35	24
25	RL3006-50-120-25-PTO	50	120	7	35	0.2	0.35	8.89	0.15	3.81	0.25	6.35	24

### OPTIONS:

- Protective coating, use suffix "POC"
- Tape and reel, use suffix "POR"
- Coated and T&R, use suffix "POCR"
- Other resistances
- Other tolerances, other transition temperatures
- Alternate size and configurations
- Other voltage ratings

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## OVER-CURRENT PROTECTION

Operating Voltage	Type Number	R @ 25°C (±30%)	Ttr (°C)	d.c. (mW/°C)	t.c. (Sec)	H (J/°C)	A (max)		B (max)		C (max)		AWG No.
							in.	mm.	in.	mm.	in.	mm.	
50	RL5506-5-65-50-PTO	5.0	65	14	50	0.7	0.60	15.24	0.18	4.57	0.33	8.38	20
50	RL5506-5-110-50-PTO	5.0	110	14	50	0.7	0.60	15.24	0.16	4.06	0.33	8.38	22
50	RL4508-7-110-50-PTO	7.0	110	12	45	0.6	0.50	12.70	0.18	4.57	0.33	8.38	22
50	RL4006-10-110-50-PTO	10	110	10	40	0.4	0.45	11.43	0.17	4.32	0.25	6.35	24
50	RL4508-15-110-50-PTO	15	110	12	45	0.6	0.50	12.70	0.18	4.57	0.33	8.38	22
50	RL4508-20-110-50-PTO	20	110	12	45	0.6	0.50	12.70	0.18	4.57	0.33	8.38	22
50	RL4010-50-110-50-PTO	50	110	12	60	0.6	0.45	11.43	0.20	5.08	0.33	8.38	22
50	RL2510-100-110-50-PTO	100	110	8	40	0.2	0.30	7.62	0.22	5.59	0.15	3.81	22
50	RL3312-200-110-50-PTO	200	110	9	45	0.5	0.40	10.16	0.23	5.84	0.25	6.35	20
50	RL2010-500-110-50-PTO	500	110	7	40	0.2	0.25	6.35	0.18	4.57	0.15	3.81	24
120	RL7510-10-120-120-PTO	10	120	20	90	2.2	0.80	20.32	0.23	5.84	0.33	8.38	18
120	RL5512-15-110-120-PTO	15	110	14	90	1.4	0.60	15.24	0.23	5.84	0.33	8.38	20
120	RL6010-20-120-120-PTO	20	120	18	90	1.4	0.65	16.51	0.23	5.84	0.33	8.38	20
120	RL5510-25-60-120-PTO	25	60	15	90	1.2	0.60	15.24	0.22	5.59	0.33	8.38	20
120	RL4510-50-120-120-PTO	50	120	12	70	0.8	0.50	12.70	0.20	5.08	0.33	8.38	22
120	RL3510-100-110-120-PTO	100	110	11	45	0.5	0.40	10.16	0.20	5.08	0.25	6.35	22
120	RL2510-200-110-120-PTO	200	110	8	40	0.2	0.30	7.62	0.20	5.08	0.15	3.81	22
240	RL6315-40-110-240-PTO	40	110	18	90	2.3	0.65	16.51	0.27	6.86	0.33	8.38	18
240	RL5515-50-65-240-PTO	50	65	17	80	1.8	0.60	15.24	0.27	6.86	0.33	8.38	20
240	RL6315-50-110-240-PTO	50	110	18	90	2.3	0.65	16.51	0.27	6.86	0.33	8.38	18
240	RL6015-100-120-240-PTO	100	120	18	90	2.1	0.65	16.51	0.27	6.86	0.33	8.38	20
240	RL6315-250-110-240-PTO	250	110	18	90	2.3	0.65	16.51	0.27	6.86	0.33	8.38	18
240	RL6315-500-110-240-PTO	500	110	18	90	2.3	0.65	16.51	0.27	6.86	0.33	8.38	18
240	RL3020-1000-100-240-PTO	1k	100	12	60	0.7	0.35	8.89	0.31	7.87	0.25	6.35	20
240	RL3020-1500-100-240-PTO	1.5k	100	12	60	0.7	0.35	8.89	0.31	7.87	0.25	6.35	20
240	RL3020-3000-100-240-PTO	3.0k	100	12	60	0.7	0.35	8.89	0.31	7.87	0.25	6.35	20
240	RL1710-25K-65-240-PTO	25k	65	6	40	0.1	0.20	5.08	0.20	5.08	0.15	3.81	24
480	RL7020-1K-100-480-PTO	1k	100	18	90	3.8	0.75	19.05	0.32	8.13	0.33	8.38	18
480	RL5020-2K-100-480-PTO	2k	100	15	80	2.0	0.55	13.97	0.32	8.13	0.33	8.38	18
480	RL3020-5K-100-480-PTO	5k	100	12	60	0.7	0.35	8.89	0.31	7.87	0.25	6.35	20

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