

## GPxxx Series PPTC Thermistors (PPTC Resettable Fuses)

Shenzhen Goodpoly Electron Co., Ltd.

- △ Radial leaded devices
- △ Very high voltage surge capabilities
- △ Available in lead-free version
- △ Agency Recognition: UL、TUV



### Electrical Characteristics

Model	V <sub>max</sub> (v)	R <sub>o</sub> (Ω)	I <sub>T</sub> (A)	I <sub>max</sub> (A)	T <sub>T</sub> (s)	I <sub>H</sub> (A)
GP070	15	0.100-0.200	1.45	100	5.0	0.70
GP100	24	0.070-0.130	2.50	100	7.0	1.00
GP120	15	0.085-0.160	2.70	100	5.0	1.20
GP-CW120	15	0.085-0.160	2.70	100	3.0	1.20
GP-CW170	15	0.030-0.052	3.40	100	3.0	1.70
GP175	15	0.050-0.090	3.80	100	5.0	1.75
GP-CW175	15	0.029-0.051	3.80	100	5.0	1.75
GP180	24	0.040-0.068	3.80	100	2.9	1.80
GP190	24	0.030-0.057	4.20	100	3.0	1.90
GP200	24	0.030-0.060	4.40	100	4.0	2.00
GP-CW200	15	0.022-0.039	4.50	100	5.0	2.00
GP-CW210	15	0.018-0.030	4.70	100	5.0	2.10
GP-CW240	15	0.014-0.026	5.40	100	4.0	2.40
GP-CW250	15	0.017-0.046	5.20	100	10.0*	2.50
GP260	24	0.025-0.042	5.20	100	5.0	2.60
GP300	24	0.015-0.031	6.30	100	4.0	3.00
GP310	24	0.018-0.030	6.00	100	5.0	3.10
GP340	24	0.016-0.027	6.80	100	5.0	3.40
GP350	24	0.017-0.031	6.30	100	3.0**	3.50
GP420	24	0.012-0.024	7.60	100	6.0	4.20

V<sub>max</sub> (V): Maximum device operating voltage.

R<sub>o</sub> (Ω): Minimum ~ maximum device resistance at 25 °C prior to tripping.

I<sub>T</sub> (A): Tripping current: minimum current at which the device will trip at 25 °C under specified condition.

I<sub>max</sub> (A): Maximum fault current device can withstand without damage at rated voltage.

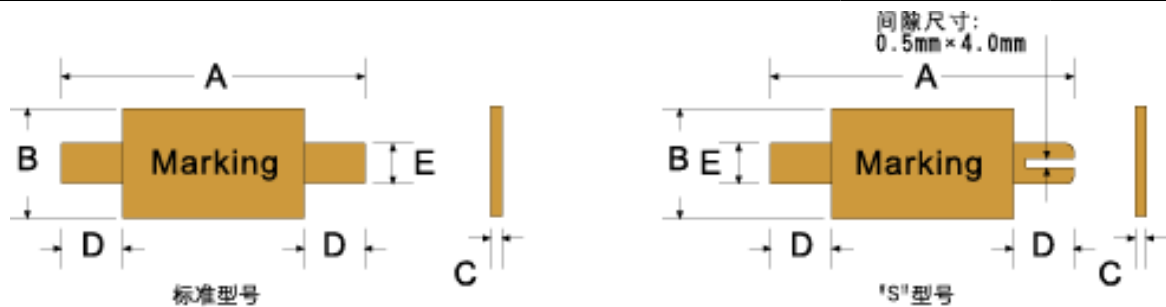
## GPxxx Series PPTC Thermistors (PPTC Resettable Fuses)

$T_T$  (S): Maximum time to trip at specified current. (Devices tested at 40A. The others tested at 5I<sub>H</sub>)

I<sub>H</sub> (A): Hold current: maximum current at which the device will not trip at 25 °C still air.

### Dimensions

Model	A <sub>typ</sub> (mm)	B <sub>typ</sub> (mm)	C <sub>typ</sub> (mm)	D <sub>typ</sub> (mm)	E <sub>typ</sub> (mm)
GP070	20.0	5.2	0.9	6.0	4.0
GP100	20.0	5.2	0.8	6.0	4.0
GP120	20.0	5.2	0.8	6.0	4.0
GP-CW120	22.0	5.2	1.0	5.0	4.0
GP-CW170	17.5	7.3	1.0	5.0	4.0
GP175	22.0	5.2	0.8	5.0	4.0
GP-CW175	22.0	3.8	1.0	5.0	3.2
GP180	22.0	5.2	0.8	5.0	4.0
GP190	22.0	8.2	0.8	6.2	5.0
GP200	22.0	8.2	0.8	6.2	5.0
GP-CW200	25.0	3.8	1.0	5.0	3.2
GP-CW210	23.1	5.3	1.0	5.0	4.0
GP-CW240	33.0	5.3	1.0	5.0	4.0
GP-CW250	43.0	5.3	1.0	13.0	4.0
GP260	22.0	8.2	0.8	6.2	5.0
GP300	27.0	13.3	0.8	6.0	5.0
GP310	27.0	13.3	0.8	6.0	5.0
GP340	27.0	13.3	0.8	6.0	5.0
GP350	27.0	13.3	0.8	6.0	5.0
GP420	31.0	13.3	0.8	6.3	5.0



GPxxx Series PPTC Thermistors (PPTC Resettable Fuses)

Typical T-I Derating Form

Model	-40	-20	0	25	40	50	60	70	85
GP070	1.32	1.21	0.99	0.70	0.63	0.60	0.50	0.39	0.26
GP100	2.00	1.73	1.52	1.00	0.99	0.85	0.75	0.61	0.40
GP120	1.95	1.74	1.54	1.20	1.07	0.98	0.87	0.76	0.58
GP-CW170	3.20	2.70	2.20	1.70	1.30	1.10	0.80	0.60	
GP175	2.57	2.36	2.07	1.75	1.59	1.39	1.27	1.18	0.99
GP-CW175	3.20	2.70	2.20	1.75	1.30	1.00	0.80	0.50	
GP180	3.23	2.88	2.35	1.80	1.48	1.20	1.10	0.75	0.45
GP190	3.50	3.00	2.51	1.90	1.60	1.35	1.20	0.88	0.52
GP200	3.28	2.88	2.59	2.00	1.81	1.70	1.52	1.31	1.02
GP-CW200	3.70	3.20	2.60	2.00	1.50	1.20	0.90	0.50	
GP-CW210	4.10	3.50	2.90	2.10	1.60	1.30	1.00	0.70	
GP-CW240	4.40	3.70	3.10	2.40	1.80	1.50	1.20	0.90	
GP-CW250	4.60	3.90	3.30	2.50	1.90	1.60	1.40	1.20	
GP260	4.40	3.80	3.19	2.60	2.10	1.80	1.49	1.19	0.70
GP300	5.20	4.49	3.78	3.00	2.39	2.04	1.70	1.35	0.78
GP310	5.46	4.68	3.80	3.10	2.45	2.11	1.80	1.40	0.80
GP340	5.60	4.88	4.10	3.40	2.70	2.33	2.00	1.60	0.89
GP350	5.51	4.89	4.42	3.58	3.00	2.89	2.62	2.28	1.79
GP420	6.53	5.81	5.20	4.20	3.69	3.38	3.10	2.75	2.24