

GP-WSM 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 _{max} (v)	I _T (A)	T _T (S)		I _H (A)	I _{max} (A)	R _{min} (Ω)	R _{1max} (Ω)
			I (A)	(S)				
GP-WSM010	60.0	0.20	1.5	0.15	0.10	10	0.700	6.000
GP-WSM014	60.0	0.34	1.5	0.15	0.14	10	0.700	6.000
GP-WSM020	30.0	0.40	6.0	0.06	0.20	10	0.600	5.000
GP-WSM035	6.0	0.70	8.0	0.20	0.35	40		1.300
GP-WSM050	15.0	1.00	8.0	0.15	0.50	40	0.150	1.000
GP-WSM075	13.2	1.50	8.0	0.20	0.75	40	0.100	0.480
GP-WSM110	6.0	2.20	8.0	0.30	1.10	40	0.040	0.260
GP-WSM125	6.0	2.50	8.0	0.40	1.25	40	0.070	0.250
GP-WSM150	6.0	3.00	8.0	0.50	1.50	40	0.040	0.110
GP-WSM160	6.0	2.80	8.0	1.00	1.60	40	0.030	0.100
GP-WSM190	16.0	3.80	10.0	2.00	1.90	100	0.024	0.080
GP-WSM200	6.0	3.50	8.0	2.00	2.00	40	0.020	0.060
GP-WSM260	6.0	5.20	8.0	2.50	2.00	40	0.015	0.047

V_{max} (V): Maximum device operating voltage.

I_T (A): Tripping current: minimum current at which the device will trip at 25℃ under specified condition.

T_T (S): Maximum time to trip at specified current. (Devices tested at 40A. The others tested at 5I_H)

I_H (A): Hold current: maximum current at which the device will not trip at 25℃ still air.

I_{max} (A): Maximum fault current device can withstand without damage at rated voltage.

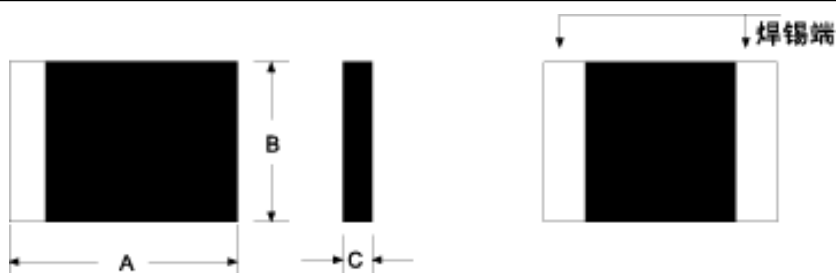
R₀ (Ω): Minimum~maximum device resistance at 25℃ prior to tripping.

R_{1max} (Ω): Maximum device resistance measured in the nontripped state 1 hour post reflow.

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Dimensions

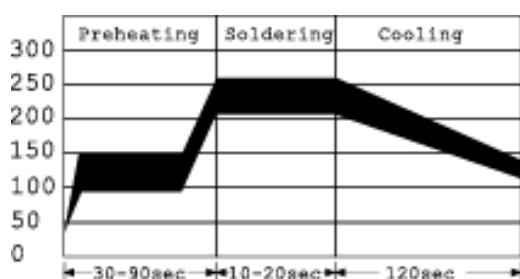
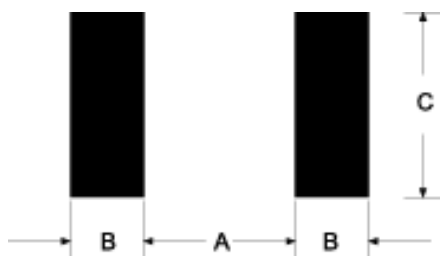
Model	Amax(mm)	Bmax(mm)	Cmax(mm)
GP-WSM010	4.73	3.41	0.81
GP-WSM014	4.73	3.41	0.81
GP-WSM020	4.73	3.41	0.81
GP-WSM035	3.43	2.80	0.62
GP-WSM050	4.73	3.41	0.62
GP-WSM075	4.73	3.41	0.62
GP-WSM110	4.73	3.41	0.62
GP-WSM125	4.73	3.41	1.25
GP-WSM150	4.73	3.41	1.25
GP-WSM160	4.73	3.41	1.25
GP-WSM190	11.51	5.33	0.55
GP-WSM200	4.73	3.41	1.25
GP-WSM260	4.73	3.41	2.25



Solder Reflow Recommendations

Model	nom	B nom	C nom
GP-WSM010	3.45	1.78	3.15
GP-WSM014	3.45	1.78	3.15
GP-WSM020	3.45	1.78	3.15
GP-WSM035	2.00	1.00	2.50
GP-WSM050	3.45	1.78	3.15
GP-WSM075	3.45	1.78	3.15
GP-WSM110	3.45	1.78	3.15
GP-WSM125	3.45	1.78	3.15
GP-WSM150	3.45	1.78	3.15
GP-WSM160	3.45	1.78	3.15
GP-WSM190	9.57	1.45	4.75
GP-WSM200	3.45	1.78	3.15
GP-WSM260	3.45	1.78	3.15

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Solder Reflow: Recommended Reflow Method: IR, Vapor phase oven, hot air oven. Devices can be cleaned using standard industrial method and solvents.

Remarks: If reflow temperatures exceed the recommended profile, device may be damaged.

Typical T-I Derating Form

Model	Ambient Temperature (°C)								
	-40	-20	0	25	40	50	60	70	85
GP-WSM014	0.23	0.19	0.17	0.14	0.12	0.10	0.09	0.08	0.06
GP-WSM020	0.29	0.26	0.23	0.20	0.17	0.15	0.14	0.12	0.10
GP-WSM035	0.47	0.45	0.40	0.35	0.30	0.28	0.24	0.21	0.18
GP-WSM050	0.77	0.68	0.59	0.50	0.44	0.40	0.37	0.33	0.29
GP-WSM075	1.15	1.01	0.88	0.75	0.65	0.60	0.55	0.49	0.43
GP-WSM110	1.59	1.43	1.26	1.10	0.95	0.87	0.80	0.71	0.60
GP-WSM190	3.04	2.70	2.20	1.90	1.44	1.23	1.00	0.78	0.49