

1. Electrical Characteristics

	Item	Symbol	Test conditions	Unit	Specification
1.1	Zero Power Resistance at 25°C	R25	Ta=25±0.1°C Test Power≤0.1mW	Ω	1KΩ±5%
1.2	B-value	B25/50	$B = [(T_a \times T_b) / (T_b - T_a)] \times \ln(R_a / R_b)$ Ta=25°C±0.01°C Tb=50°C±0.01°C	K	3600±10%
1.3	Thermal dissipation Coefficient	δ	In still air	mW/°C	about 4.5
1.4	Thermal time constant	τ	In still air	sec	about 20
1.5	Insulation resistance	/	1000V/DC 1min	MΩ	≥500
1.6	Operating temperature	/	/	°C	-30°C ~ 125°C
1.7	Maximum rated power	Pmax	/	mW	450

2. Reliability

	Item	Test conditions and methods	Technical requirements
2.1	Terminal strength	Pull: wire diameter(mm) pulling force (N) 0.35<d≤0.5 5,0.5<d≤0.8 10 time: 10±1 sec	No obvious damage, R25 ΔR/R≤±3%
2.2	Solderability	temperature : 245±5°C for 2-3sec	the coverage area should be more than 95%.
2.3	Welding heat resistant	Tin pan temperature : 260±5°C, immersion depth is apart from the body resistance 6mm , time:5±1sec	R25 ΔR/R≤±3%,
2.4	Steady humidity and heat	Temp: 40°C±2°C, humidity: 93±2%, Time : 500hrs	R25 ΔR/R≤±3%,
2.5	Rapid changes in temperature	-30°C30min→25°C5min→1 25°C30min→25°C5min , 5cycles	R25 ΔR/R≤±3%
2.6	High temperature storage	Temp : 125°C±5°C, Time :1000hrs	R25 ΔR/R≤±5%
2.7	Low temperature storage	Temp : -30°C, Time :1000hrs	R25 ΔR/R≤±5%

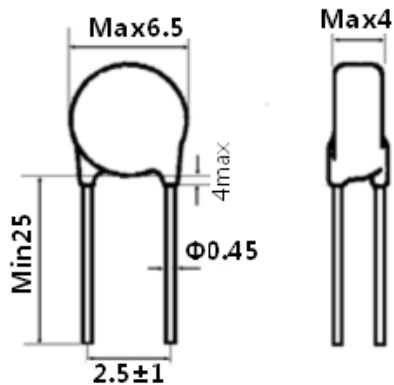
3. Matters need attention

- 3.1 This product uses: Temperature measurement and control;
- 3.2 When the soldering iron welding, the welding place at least 2 mm space from coating layer and the welding temperature should be lower than 360 °C, welding time < 3 ses
- 3.3 Storage temp: -10°C ~ 40°C; storage humidity : ≤75% RH;
- 3.4 Avoid air corrosion or sunlight
- 3.5 Remake sealed storage after package opening. The storage life is 1 year. Exceed storage period, can re-inspect per as the items stipulated in the standard. If it meets the requirements, it can still be used.

4. Certificate

- 4.1 Quality Management System ISO9001: 2015
IATF16949: 2016
- 4.2 Environment Management System ISO14001:2015
- 4.3 Environment Test Report RoHS
- 4.4 CQC Safe Certification
- 4.5 TUV Certificate

5. Dimensions(mm)



Coating material	Wire material	Body color	Logo color
Epoxy resin	CP wire	Green	Black

R25=1K Ω				B25/50=3600K							
T	R	T	R	T	R	T	R	T	R	T	R
-30	13.49	-4	3.479	22	1.127	48	0.422	74	0.179	100	0.09
-29	12.698	-3	3.321	23	1.083	49	0.407	75	0.174	101	0.084
-28	11.966	-2	3.171	24	1.04	50	0.393	76	0.168	102	0.082
-27	11.287	-1	3.029	25	1	51	0.379	77	0.164	103	0.08
-26	10.656	0	2.91	26	0.961	52	0.366	78	0.159	104	0.078
-25	10.07	1	2.766	27	0.923	53	0.354	79	0.154	105	0.077
-24	9.522	2	2.644	28	0.888	54	0.342	80	0.15	106	0.075
-23	9.012	3	2.528	29	0.854	55	0.331	81	0.145	107	0.073
-22	8.534	4	2.418	30	0.821	56	0.32	82	0.141	108	0.071
-21	8.087	5	2.313	31	0.79	57	0.309	83	0.137	109	0.07
-20	7.668	6	2.213	32	0.76	58	0.299	84	0.133	110	0.068
-19	7.275	7	2.118	33	0.732	59	0.289	85	0.13	111	0.067
-18	6.906	8	2.028	34	0.704	60	0.28	86	0.126	112	0.065
-17	6.559	9	1.942	35	0.678	61	0.27	87	0.122	113	0.064
-16	6.232	10	1.86	36	0.653	62	0.262	88	0.119	114	0.062
-15	5.924	11	1.781	37	0.629	63	0.253	89	0.116	115	0.061
-14	5.634	12	1.707	38	0.606	64	0.245	90	0.113	116	0.06
-13	5.36	13	1.636	39	0.584	65	0.237	91	0.11	117	0.058
-12	5.102	14	1.568	40	0.563	66	0.23	92	0.107	118	0.057
-11	4.858	15	1.504	41	0.542	67	0.223	93	0.104	119	0.056
-10	4.627	16	1.442	42	0.523	68	0.216	94	0.101	120	0.055
-9	4.409	17	1.383	43	0.504	69	0.209	95	0.099	121	0.054
-8	4.202	18	1.327	44	0.486	70	0.203	96	0.096	122	0.053
-7	4.007	19	1.274	45	0.469	71	0.196	97	0.094	123	0.051
-6	3.821	20	1.223	46	0.453	72	0.19	98	0.091	124	0.05
-5	3.646	21	1.174	47	0.437	73	0.185	99	0.089	125	0.05

