

## 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	1.5KΩ±5%
1.2	B-value	B25/50	B=[(Ta×Tb)/(Tb-Ta)]×ln(Ra/Rb) Ta=25°C±0.01°C Tb=50°C±0.01°C	K	3950±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%

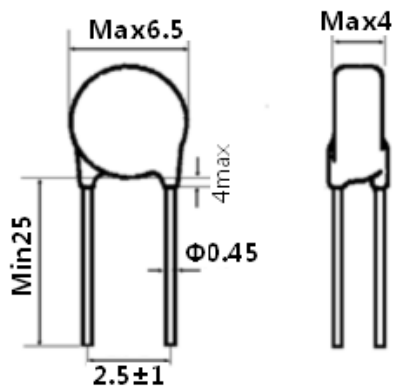
### 3. Matters need attention

- 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=1.5K Ω						B25/50=3950K					
T	R	T	R	T	R	T	R	T	R	T	R
-30	27.36	-4	6.049	22	1.712	48	0.584	74	0.232	100	0.105
-29	25.7	-3	5.738	23	1.638	49	0.562	75	0.225	101	0.105
-28	24.149	-2	5.445	24	1.567	50	0.541	76	0.218	102	0.102
-27	22.697	-1	5.169	25	1.5	51	0.521	77	0.211	103	0.099
-26	21.339	0	4.935	26	1.435	52	0.502	78	0.204	104	0.097
-25	20.07	1	4.663	27	1.374	53	0.483	79	0.198	105	0.094
-24	18.882	2	4.431	28	1.316	54	0.466	80	0.192	106	0.092
-23	17.771	3	4.213	29	1.261	55	0.449	81	0.186	107	0.09
-22	16.731	4	4.006	30	1.208	56	0.433	82	0.18	108	0.088
-21	15.758	5	3.811	31	1.158	57	0.417	83	0.175	109	0.085
-20	14.847	6	3.627	32	1.11	58	0.402	84	0.17	110	0.083
-19	13.995	7	3.453	33	1.065	59	0.388	85	0.165	111	0.081
-18	13.197	8	3.288	34	1.021	60	0.375	86	0.16	112	0.079
-17	12.449	9	3.132	35	0.98	61	0.361	87	0.155	113	0.078
-16	11.748	10	2.985	36	0.94	62	0.349	88	0.15	114	0.076
-15	11.091	11	2.845	37	0.903	63	0.337	89	0.146	115	0.074
-14	10.475	12	2.712	38	0.866	64	0.325	90	0.142	116	0.072
-13	9.898	13	2.587	39	0.832	65	0.314	91	0.138	117	0.071
-12	9.356	14	2.468	40	0.799	66	0.304	92	0.134	118	0.069
-11	8.847	15	2.356	41	0.768	67	0.293	93	0.13	119	0.068
-10	8.369	16	2.249	42	0.738	68	0.283	94	0.127	120	0.066
-9	7.921	17	2.147	43	0.709	69	0.274	95	0.123	121	0.065
-8	7.499	18	2.051	44	0.682	70	0.265	96	0.12	122	0.063
-7	7.102	19	1.96	45	0.656	71	0.256	97	0.117	123	0.062
-6	6.73	20	1.873	46	0.631	72	0.248	98	0.113	124	0.061
-5	6.379	21	1.791	47	0.607	73	0.24	99	0.11	125	0.06

