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Applications

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PART NUMBER

Example: RND 155MF11-682J

RND 155MF11	682	J
Type	Zero Power Resistance @ 25 °C 682 = 6.8 kΩ	Tolerance F = ± 1% G = ± 2% H = ± 3% J = ± 5%

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	kΩ	6.8±5%
1.2	B-value	B25/50	$B = [(Ta \times Tb) / (Tb - Ta)] \times \ln(Ra / Rb)$	K	4050±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

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 °C ±5 °C, immersion depth is apart from the body resistance 6 mm, time 5±1 sec	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 °C 30min→25 °C 5min→1 25 °C 30min→25 °C 5min , 5 cycles	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%

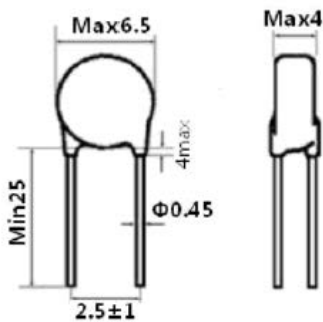
Caution

- 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 sec.
- 3.3 Storage temp : - 10 ... 40°C; storage humidity :≤75% RH;
- 3.4 Avoid air corrosion or sunlight;
- 3.5 Remake sealed storage after package opening

Certificate

- 4.1 Quality Control System Certification
ISO9001 : 2008 (01115Q20270R5M)
ISOTS16949 : 2009(0192416)
- 4.2 Environment Management System Certification
ISO14001 : 2004 (01113E20060R2M)
- 4.3 Environment Test Report RoHS
- 4.4 CQC Safe Certification (CQC13001089724) 4.5 TUV Certificate (R50245892)

Dimensions



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

R&T Table

R25=6.8K Ω				B25/50=4050K							
T	R	T	R	T	R	T	R	T	R	T	R
-30	131.58	-4	28.495	22	7.792	48	2.582	74	0.987	100	0.408
-29	123.394	-3	26.999	23	7.444	49	2.482	75	0.953	101	0.408
-28	115.782	-2	25.59	24	7.114	50	2.387	76	0.921	102	0.396
-27	108.698	-1	24.263	25	6.8	51	2.296	77	0.89	103	0.384
-26	102.099	0	22.984	26	6.501	52	2.209	78	0.86	104	0.372
-25	95.948	1	21.833	27	6.218	53	2.125	79	0.831	105	0.361
-24	90.208	2	20.722	28	5.948	54	2.045	80	0.803	106	0.35
-23	84.85	3	19.673	29	5.692	55	1.969	81	0.777	107	0.34
-22	79.844	4	18.684	30	5.448	56	1.895	82	0.751	108	0.33
-21	75.165	5	17.75	31	5.216	57	1.825	83	0.726	109	0.32
-20	70.789	6	16.869	32	4.995	58	1.758	84	0.702	110	0.311
-19	66.693	7	16.036	33	4.784	59	1.693	85	0.68	111	0.302
-18	62.859	8	15.25	34	4.584	60	1.632	86	0.657	112	0.293
-17	59.268	9	14.506	35	4.393	61	1.572	87	0.636	113	0.285
-16	55.903	10	13.803	36	4.211	62	1.515	88	0.616	114	0.277
-15	52.748	11	13.139	37	4.038	63	1.461	89	0.596	115	0.269
-14	49.789	12	12.51	38	3.873	64	1.408	90	0.577	116	0.261
-13	47.013	13	11.916	39	3.715	65	1.358	91	0.559	117	0.254
-12	44.407	14	11.353	40	3.565	66	1.31	92	0.541	118	0.247
-11	41.961	15	10.82	41	3.421	67	1.264	93	0.524	119	0.24
-10	39.663	16	10.315	42	3.284	68	1.219	94	0.508	120	0.234
-9	37.504	17	9.837	43	3.153	69	1.176	95	0.492	121	0.227
-8	35.475	18	9.383	44	3.029	70	1.135	96	0.476	122	0.221
-7	33.567	19	8.953	45	2.909	71	1.096	97	0.462	123	0.215
-6	31.772	20	8.546	46	2.795	72	1.058	98	0.448	124	0.209
-5	30.084	21	8.159	47	2.686	73	1.022	99	0.434	125	0.204

Compensation NTC Thermistor

