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PART NUMBER

Example: RND 155MF11-472J

RND 155MF11	472	J
Type	Zero Power Resistance @ 25 °C 472 = 4.7 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	4.7±5%
1.2	B-value	B25/50	$B = [(Ta \times Tb) / (Tb - Ta)] \times \ln(Ra / Rb)$	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

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%

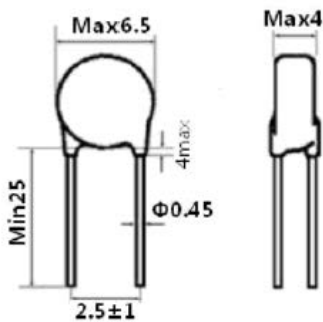
Caution

- 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=4.7K Ω				B25/50=3950K							
T	R	T	R	T	R	T	R	T	R	T	R
-30	85.728	-4	18.953	22	5.366	48	1.831	74	0.729	100	0.329
-29	80.529	-3	17.979	23	5.132	49	1.762	75	0.705	101	0.329
-28	75.667	-2	17.061	24	4.911	50	1.696	76	0.683	102	0.321
-27	71.118	-1	16.196	25	4.7	51	1.633	77	0.662	103	0.312
-26	66.864	0	15.463	26	4.499	52	1.573	78	0.641	104	0.304
-25	62.886	1	14.612	27	4.308	53	1.516	79	0.621	105	0.297
-24	59.164	2	13.886	28	4.126	54	1.46	80	0.602	106	0.289
-23	55.682	3	13.201	29	3.952	55	1.408	81	0.584	107	0.282
-22	52.425	4	12.554	30	3.787	56	1.357	82	0.566	108	0.275
-21	49.376	5	11.943	31	3.63	57	1.308	83	0.549	109	0.269
-20	46.523	6	11.366	32	3.48	58	1.262	84	0.532	110	0.262
-19	43.852	7	10.82	33	3.337	59	1.217	85	0.517	111	0.256
-18	41.35	8	10.303	34	3.201	60	1.175	86	0.501	112	0.25
-17	39.007	9	9.815	35	3.071	61	1.133	87	0.487	113	0.244
-16	36.812	10	9.353	36	2.947	62	1.094	88	0.472	114	0.238
-15	34.754	11	8.915	37	2.829	63	1.056	89	0.459	115	0.233
-14	32.824	12	8.5	38	2.716	64	1.02	90	0.446	116	0.228
-13	31.014	13	8.107	39	2.608	65	0.985	91	0.433	117	0.223
-12	29.316	14	7.735	40	2.505	66	0.952	92	0.421	118	0.218
-11	27.722	15	7.382	41	2.407	67	0.92	93	0.409	119	0.213
-10	26.225	16	7.047	42	2.313	68	0.889	94	0.398	120	0.208
-9	24.819	17	6.729	43	2.223	69	0.86	95	0.387	121	0.204
-8	23.497	18	6.428	44	2.138	70	0.831	96	0.376	122	0.2
-7	22.255	19	6.142	45	2.056	71	0.804	97	0.366	123	0.195
-6	21.087	20	5.87	46	1.977	72	0.778	98	0.356	124	0.191
-5	19.988	21	5.611	47	1.902	73	0.753	99	0.347	125	0.188

Compensation NTC Thermistor

