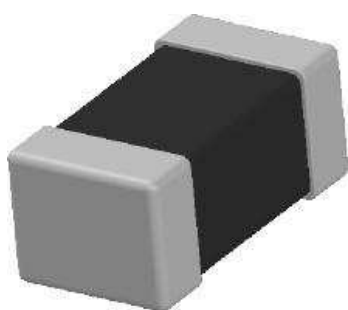




SMD THERMISTOR 20021086-00

Specifications

- 10,000 Ohms Resistance @ +25°C
- Tape and Reel packaging for automatic placement
- 3% tolerance @ +25°C
- Temperature range -40°C to +150°C

Features

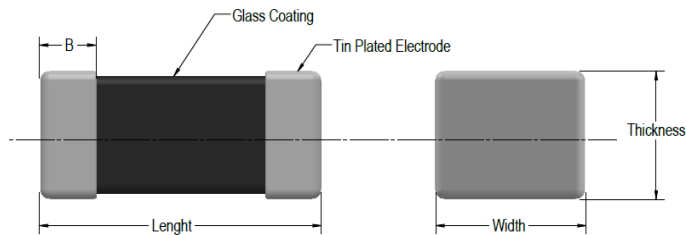
- Glass coated for excellent durability and heat resistance
- Excellent solderability with five surface Tin plated electrodes
- Tape & Reel packaging for automatic placement
- Low cost
- RoHS Compliant

Applications

- Temperature sensing, control and detection
- Temperature compensation of transistors, IC's and crystal oscillators in mobile telecommunication equipment.
- Consumer electronics
- Automotive electronics
- LCD controls

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Dimensions



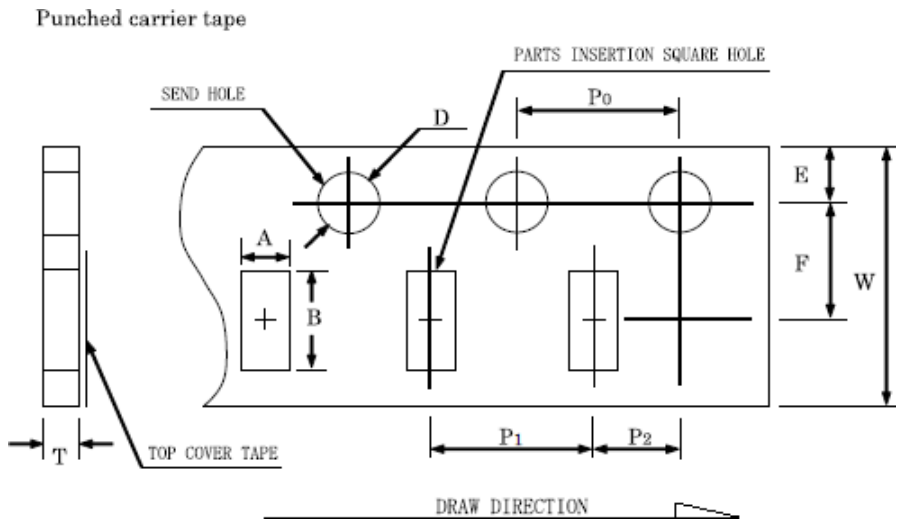
Length	Width	Thickness	B
1.60±0.2	0.8±0.1	0.8±0.1	0.3 ±0.1

Product specifications

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	10,000
Tolerance at +25°C	%	± 3
Beta Value 25/85	K	3435
Tolerance on Beta Value 25/85	%	± 1
Max. rated wattage in still air	mW	30
Dissipation Constant in still air	mW/°C	3.0
Operating Temperature	°C	-40 to +150

Tape dimensions

Type of taping	Carrier tape	Top cover tape	Bottom cover tape
Taping of rectangular punched carrier system	Paper	Thermal adhesion plastics	Thermal adhesion paper



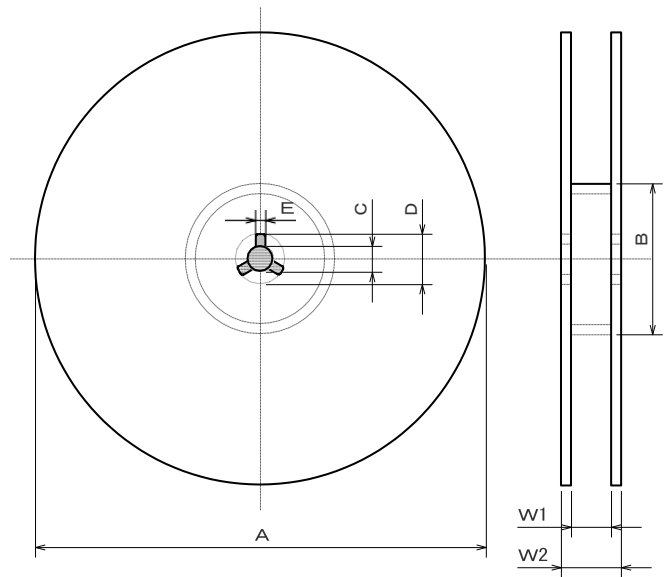
A	B	W	E	F
1.1±0.05	1.90±0.05	8.00±0.20	1.75±0.10	3.50±0.05

P1	P2	P0	D	T
4.00±0.1	2.00±0.05	4.00±0.10	1.50±0.10	0.95±0.05

Notes:

1. Dimensions in mm
2. Pitch tolerance over any 10 pitches of P0 is ±0.2mm.

Reel dimensions



A	B	C	D	E	W1	W2
Ø 180±2.0	Ø 60±1.0	Ø13±0.5	Ø21±0.8	2±0.5	10.0±1.50	14.0±1.5

Notes:

1. All dimensions are in mm
2. Material: Polystyrene

Resistance v temperature table

Temp °C	K Ohms
-40	205.60
-39	194.20
-38	183.50
-37	173.40
-36	164.00
-35	155.10
-34	146.80
-33	139.00
-32	131.60
-31	124.70
-30	118.20
-29	112.10
-28	106.30
-27	100.90
-26	95.73
-25	90.90
-24	86.34
-23	82.04
-22	77.99
-21	74.15
-20	70.53
-19	67.11
-18	63.88
-17	60.82
-16	57.93
-15	55.19
-14	52.60
-13	50.15
-12	47.82
-11	45.62
-10	43.53
-9	41.55
-8	39.67
-7	37.89
-6	36.20
-5	34.59
-4	33.07
-3	31.62
-2	30.24
-1	28.93
0	27.69
1	26.50
2	25.38
3	24.30
4	23.28
5	22.31
6	21.38
7	20.50

Temp °C	K Ohms
8	19.66
9	18.86
10	18.09
11	17.36
12	16.67
13	16.00
14	15.37
15	14.76
16	14.19
17	13.63
18	13.10
19	12.60
20	12.12
21	11.66
22	11.21
23	10.79
24	10.39
25	10.00
26	9.63
27	9.27
28	8.94
29	8.61
30	8.30
31	8.00
32	7.71
33	7.44
34	7.17
35	6.92
36	6.68
37	6.45
38	6.22
39	6.01
40	5.80
41	5.61
42	5.42
43	5.24
44	5.06
45	4.89
46	4.73
47	4.57
48	4.42
49	4.28
50	4.14
51	4.01
52	3.88
53	3.76
54	3.64
55	3.52

Temp °C	K Ohms
56	3.412
57	3.306
58	3.203
59	3.104
60	3.009
61	2.917
62	2.829
63	2.743
64	2.661
65	2.581
66	2.504
67	2.43
68	2.359
69	2.289
70	2.223
71	2.158
72	2.096
73	2.036
74	1.978
75	1.921
76	1.867
77	1.815
78	1.764
79	1.715
80	1.667
81	1.621
82	1.576
83	1.533
84	1.492
85	1.451
86	1.413
87	1.375
88	1.339
89	1.304
90	1.269
91	1.236
92	1.204
93	1.173
94	1.143
95	1.114
96	1.086
97	1.058
98	1.031
99	1.006
100	0.9805
101	0.9562
102	0.9326
103	0.9096

Temp °C	K Ohms
104	0.8874
105	0.8657
106	0.8447
107	0.8243
108	0.8045
109	0.7853
110	0.7666
111	0.7484
112	0.7307
113	0.7136
114	0.6969
115	0.6807
116	0.6649
117	0.6496
118	0.6346
119	0.6201
120	0.6060
121	0.5923
122	0.5789
123	0.5659
124	0.5533
125	0.5410
126	0.5290
127	0.5173
128	0.5059
129	0.4949
130	0.4841
131	0.4736
132	0.4634
133	0.4534
134	0.4437
135	0.4342
136	0.4250
137	0.4160
138	0.4073
139	0.3987
140	0.3904
141	0.3823
142	0.3744
143	0.3667
144	0.3592
145	0.3518
146	0.3447
147	0.3377
148	0.3309
149	0.3242
150	0.3177

Ordering information

Part Number	Description	Ω @ +25°C	MOQ*
20021086-00	0603 SMD Thermistor – Taped & Reeled	10,000	3,000

*For orders less than MOQ, please contact Sales

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