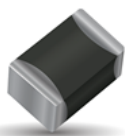


NTC SMD Thermistor with Ni/Sn termination

for Automotive, Industrial and General applications

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SpiCAT



KYOCERA AVX Chip NTC Thermistors are high quality devices developed especially for surface mounting applications. They are widely used for temperature compensation, but can also achieve temperature control of printed circuits in a wide range of applications, including automotive, industrial and general purpose. Ni barrier/100% Sn plated termination for lead free soldering.

Characteristics

Case Size	1206
Operating temperature	-55°C to +150°C
Resistance	100 kOhm
Tolerance on Resistance (25°C)	$\pm 10\%$
B 25/85	4160K $\pm 3\%$
Maximum dissipation at 25°C	0.24 W
Thermal dissipation factor	4 mW/°C
Thermal time constant	7 s
Termination	Ni barrier/100%Sn (for Pb free soldering)



MSL 1
Pb Free
260°C

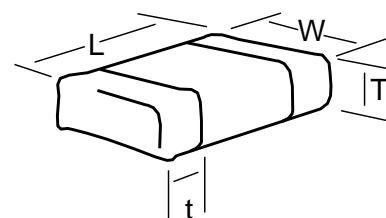


AEC-Q200
based qualification

Dimensions

mm (inches)

Size (EIA)	Length (L)	Width (W)	Thickness (T)	Terminal (t)
1206	3.2 ± 0.4	1.6 ± 0.25	1.5 max	0.2 min
	(0.126 ± 0.016)	(0.063 ± 0.01)	(0.059) max	(0.008) min



How to Order (Packaging options)

NB	20	N5	0104	K	BA
Type	Size	Material Code	Resistance (Ohm)	Tolerance	Suffix: Packaging
NB = Ni/Sn Term for lead free soldering	20 = 1206	See Datasheet	2 Sig. Digits + Number of Zeros	H = $\pm 3\%*$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	BA = Plastic tape (180mm reel, 3,000 pcs/reel) BE = Plastic tape (180mm reel, 1,500 pcs/reel) BC = Plastic tape (330mm reel, 10,000 pcs/reel) -- = Bulk (5000 pcs/bag)
				* For selected PNs	

NOTICE: Specifications are subject to change without notice. All statements, information and data given herein are believed to be accurate and reliable, but are presented without guarantee or responsibility of any kind, expressed or implied. Specifications are typical and may not apply to all applications.

Material Table

N5 (B25/85 = 4160K $\pm 3\%$)

T (°C)	R(T) / R25	TF (%)	α (%/°C)
-55	115.8	16.32	-7.52
-50	79.72	14.10	-7.28
-45	55.54	12.12	-7.04
-40	39.15	10.36	-6.82
-35	27.91	8.80	-6.61
-30	20.11	7.42	-6.40
-25	14.64	6.19	-6.20
-20	10.77	5.11	-6.01
-15	7.996	4.16	-5.83
-10	5.991	3.33	-5.65
-5	4.529	2.60	-5.48
0	3.454	1.97	-5.31
5	2.655	1.43	-5.16
10	2.057	0.97	-5.00
15	1.606	0.58	-4.86
20	1.263	0.26	-4.72
25	1.000	0.00	-4.58
30	0.7973	0.25	-4.45
35	0.6398	0.54	-4.32
40	0.5167	0.86	-4.20
45	0.4198	1.21	-4.09
50	0.3430	1.58	-3.97
55	0.2819	1.97	-3.86
60	0.2329	2.39	-3.76
65	0.1934	2.82	-3.66
70	0.1614	3.26	-3.56
75	0.1354	3.72	-3.46
80	0.1141	4.19	-3.37
85	0.0966	4.67	-3.29
90	0.0821	5.17	-3.20
95	0.0701	5.66	-3.12
100	0.0601	6.17	-3.04
105	0.0517	6.68	-2.96
110	0.0447	7.19	-2.89
115	0.0387	7.71	-2.82
120	0.0337	8.23	-2.75
125	0.0294	8.76	-2.68
130	0.0258	9.28	-2.62
135	0.0226	9.81	-2.55
140	0.0199	10.34	-2.49
145	0.0176	10.86	-2.44
150	0.0156	11.39	-2.38

B25/50	B25/75	B25/85	B25/100	B Tol
4124 K	4151 K	4160 K	4171 K	$\pm 3\%$

R Min (Ω)	R Nom (Ω)	R Max (Ω)
8,535,163	11,583,639	14,632,116
6,051,251	7,972,380	9,893,508
4,325,654	5,554,320	6,782,985
3,117,982	3,915,244	4,712,505
2,266,286	2,791,050	3,315,814
1,660,934	2,011,236	2,361,539
1,227,278	1,464,401	1,701,524
914,175	1,076,916	1,239,658
686,346	799,577	912,809
519,288	599,149	679,009
395,863	452,950	510,037
303,996	345,351	386,705
235,121	265,475	295,829
183,117	205,687	228,256
143,579	160,575	177,571
113,316	126,274	139,233
90,000	100,000	110,000
71,555	79,729	87,904
57,239	63,983	70,727
46,058	51,668	57,279
37,273	41,977	46,681
30,330	34,302	38,273
24,813	28,188	31,562
20,404	23,289	26,173
16,863	19,342	21,820
14,003	16,144	18,285
11,683	13,541	15,399
9,790.8	11,410	13,030
8,241.0	9,658.4	11,076
6,965.8	8,211.1	9,456.3
5,911.9	7,010.0	8,108.0
5,037.3	6,008.8	6,980.4
4,308.4	5,170.9	6,033.3
3,698.6	4,466.6	5,234.5
3,186.4	3,872.3	4,558.2
2,754.6	3,368.9	3,983.2
2,389.3	2,941.0	3,492.7
2,079.2	2,575.9	3,072.6
1,814.9	2,263.3	2,711.6
1,589.1	1,994.8	2,400.4
1,395.4	1,763.3	2,131.2
1,228.9	1,563.2	1,897.6