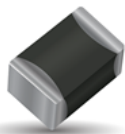


NTC SMD Thermistor with Ni/Sn termination

for Automotive, Industrial and General applications

To view data online visit:

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)	$\pm 5\%$
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

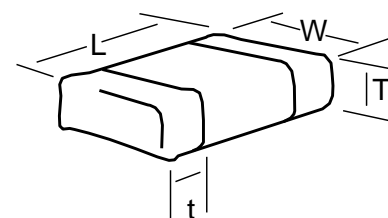


AEC-Q200
based qualification

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

Type

NB = Ni/Sn Term for lead free soldering

20

Size

20 = 1206

N5

Material Code

See Datasheet

0104

Resistance (Ohm)

2 Sig. Digits + Number of Zeros

J

Tolerance

H = $\pm 3\%$ *
J = $\pm 5\%$
K = $\pm 10\%$
M = $\pm 20\%$

* For selected PNs

BC

Suffix: Packaging

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)

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)
9,114,345	11,583,639	14,052,934
6,449,870	7,972,380	9,494,889
4,603,370	5,554,320	6,505,269
3,313,744	3,915,244	4,516,743
2,405,839	2,791,050	3,176,261
1,761,495	2,011,236	2,260,977
1,300,498	1,464,401	1,628,304
968,020	1,076,916	1,185,813
726,324	799,577	872,830
549,245	599,149	649,052
418,510	452,950	487,389
321,264	345,351	369,438
248,395	265,475	282,555
193,401	205,687	217,972
151,608	160,575	169,542
119,630	126,274	132,919
95,000	100,000	105,000
75,541	79,729	83,917
60,438	63,983	67,528
48,641	51,668	54,696
39,372	41,977	44,582
32,046	34,302	36,558
26,223	28,188	30,153
21,569	23,289	25,009
17,830	19,342	20,853
14,810	16,144	17,478
12,360	13,541	14,722
10,361	11,410	12,459
8,724.0	9,658.4	10,593
7,376.4	8,211.1	9,045.8
6,262.4	7,010.0	7,757.5
5,337.7	6,008.8	6,680.0
4,566.9	5,170.9	5,774.8
3,921.9	4,466.6	5,011.2
3,380.0	3,872.3	4,364.6
2,923.1	3,368.9	3,814.8
2,536.4	2,941.0	3,345.6
2,208.0	2,575.9	2,943.8
1,928.1	2,263.3	2,598.5
1,688.8	1,994.8	2,300.7
1,483.6	1,763.3	2,043.0
1,307.0	1,563.2	1,819.4