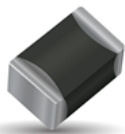


NTC SMD Thermistor with Ni/Sn termination

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	820 kOhm
Tolerance on Resistance (25°C)	$\pm 5\%$
B 25/85	4400K $\pm 3\%$
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

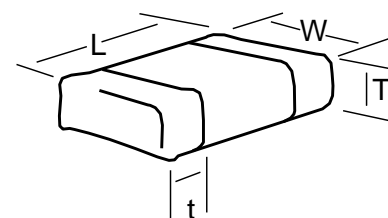


AEC-Q200
based qualification

Dimensions WWWW

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

R0

Material Code

See Datasheet

0824

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

R0 (B25/85 = 4400K $\pm 3\%$)

T (°C)	R(T) / R25	TF (%)	α (%/°C)
-55	113.9	25.89	-7.13
-50	79.71	22.37	-6.95
-45	56.30	19.23	-6.77
-40	40.13	16.44	-6.60
-35	28.85	13.96	-6.44
-30	20.92	11.77	-6.28
-25	15.29	9.82	-6.12
-20	11.27	8.11	-5.97
-15	8.368	6.60	-5.82
-10	6.261	5.28	-5.68
-5	4.719	4.13	-5.53
0	3.583	3.13	-5.40
5	2.739	2.27	-5.26
10	2.108	1.54	-5.13
15	1.634	0.93	-5.00
20	1.274	0.42	-4.88
25	1.000	0.00	-4.75
30	0.7897	0.40	-4.64
35	0.6273	0.86	-4.52
40	0.5012	1.36	-4.41
45	0.4028	1.91	-4.30
50	0.3255	2.50	-4.19
55	0.2644	3.13	-4.09
60	0.2159	3.78	-3.98
65	0.1772	4.47	-3.89
70	0.1462	5.18	-3.79
75	0.1212	5.90	-3.70
80	0.1009	6.65	-3.60
85	0.0844	7.42	-3.52
90	0.0709	8.20	-3.43
95	0.0598	8.99	-3.35
100	0.0507	9.79	-3.26
105	0.0431	10.60	-3.19
110	0.0369	11.41	-3.11
115	0.0316	12.24	-3.03
120	0.0272	13.06	-2.96
125	0.0235	13.89	-2.89
130	0.0204	14.73	-2.82
135	0.0177	15.56	-2.76
140	0.0154	16.40	-2.69
145	0.0135	17.23	-2.63
150	0.0119	18.07	-2.57

B25/50	B25/75	B25/85	B25/100	B Tol
4326 K	4382 K	4400 K	4423 K	$\pm 3\%$

R Min (Ω)	R Nom (Ω)	R Max (Ω)
64,537,107	93,379,865	122,222,622
47,472,923	65,358,904	83,244,886
34,982,837	46,169,873	57,356,910
25,851,665	32,907,425	39,963,185
19,172,303	23,659,023	28,145,743
14,277,496	17,153,799	20,030,103
10,680,641	12,539,583	14,398,524
8,028,567	9,239,929	10,451,292
6,065,490	6,861,592	7,657,694
4,606,225	5,134,090	5,661,955
3,516,562	3,869,896	4,223,231
2,699,049	2,937,989	3,176,930
2,082,737	2,246,138	2,409,539
1,615,810	1,728,942	1,842,075
1,260,290	1,339,698	1,419,106
988,234	1,044,821	1,101,409
779,000	820,000	861,000
612,545	647,518	682,490
484,253	514,383	544,513
384,854	411,008	437,163
307,442	330,276	353,110
246,847	266,871	286,895
199,178	216,799	234,421
161,494	177,046	192,597
131,561	145,319	159,076
107,672	119,869	132,065
88,519	99,353	110,186
73,093	82,734	92,374
60,615	69,209	77,802
50,478	58,151	65,824
42,207	49,070	55,933
35,432	41,581	47,729
29,859	35,377	40,895
25,258	30,218	35,178
21,444	25,910	30,376
18,270	22,298	26,326
15,620	19,259	22,899
13,400	16,693	19,986
11,533	14,518	17,503
9,957.1	12,668	15,379
8,623.4	11,089	13,555
7,490.8	9,737.1	11,983