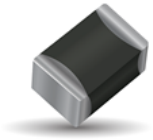
NB20N50104M--

(1206, 100 kOhm ±20%, 4160K, Ni/100% Sn)

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)	±20%
B 25/85	4160K±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)

RoHS COMPLIANT

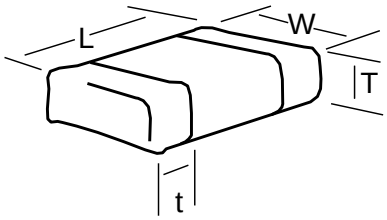
MSL 1
Pb Free
260°C

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	20	N5	0104	M	--
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 = ±3%* J = ±5% K = ±10% M = ±20% * For selected PNs	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)

Material Table

N5 (B25/85 = 4160K±3%)

B25/50	B25/75	B25/85	B25/100	B Tol
4124 K	4151 K	4160 K	4171 K	±3%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	115.8	16.32	-7.52	7,376,799	11,583,639	15,790,480
-50	79.72	14.10	-7.28	5,254,014	7,972,380	10,690,746
-45	55.54	12.12	-7.04	3,770,222	5,554,320	7,338,417
-40	39.15	10.36	-6.82	2,726,458	3,915,244	5,104,030
-35	27.91	8.80	-6.61	1,987,181	2,791,050	3,594,919
-30	20.11	7.42	-6.40	1,459,810	2,011,236	2,562,662
-25	14.64	6.19	-6.20	1,080,838	1,464,401	1,847,964
-20	10.77	5.11	-6.01	806,483	1,076,916	1,347,350
-15	7.996	4.16	-5.83	606,388	799,577	992,767
-10	5.991	3.33	-5.65	459,373	599,149	738,924
-5	4.529	2.60	-5.48	350,568	452,950	555,332
0	3.454	1.97	-5.31	269,461	345,351	421,240
5	2.655	1.43	-5.16	208,574	265,475	322,376
10	2.057	0.97	-5.00	162,548	205,687	248,825
15	1.606	0.58	-4.86	127,521	160,575	193,628
20	1.263	0.26	-4.72	100,688	126,274	151,860
25	1.000	0.00	-4.58	80,000	100,000	120,000
30	0.7973	0.25	-4.45	63,582	79,729	95,877
35	0.6398	0.54	-4.32	50,840	63,983	77,125
40	0.5167	0.86	-4.20	40,891	51,668	62,446
45	0.4198	1.21	-4.09	33,075	41,977	50,879
50	0.3430	1.58	-3.97	26,900	34,302	41,704
55	0.2819	1.97	-3.86	21,994	28,188	34,381
60	0.2329	2.39	-3.76	18,076	23,289	28,502
65	0.1934	2.82	-3.66	14,929	19,342	23,755
70	0.1614	3.26	-3.56	12,389	16,144	19,900
75	0.1354	3.72	-3.46	10,329	13,541	16,753
80	0.1141	4.19	-3.37	8,649.8	11,410	14,171
85	0.0966	4.67	-3.29	7,275.2	9,658.4	12,042
90	0.0821	5.17	-3.20	6,144.7	8,211.1	10,277
95	0.0701	5.66	-3.12	5,210.9	7,010.0	8,809.0
100	0.0601	6.17	-3.04	4,436.4	6,008.8	7,581.3
105	0.0517	6.68	-2.96	3,791.3	5,170.9	6,550.4
110	0.0447	7.19	-2.89	3,251.9	4,466.6	5,681.2
115	0.0387	7.71	-2.82	2,799.2	3,872.3	4,945.4
120	0.0337	8.23	-2.75	2,417.7	3,368.9	4,320.1
125	0.0294	8.76	-2.68	2,095.2	2,941.0	3,786.8
130	0.0258	9.28	-2.62	1,821.6	2,575.9	3,330.2
135	0.0226	9.81	-2.55	1,588.6	2,263.3	2,938.0
140	0.0199	10.34	-2.49	1,389.6	1,994.8	2,599.9
145	0.0176	10.86	-2.44	1,219.1	1,763.3	2,307.5
150	0.0156	11.39	-2.38	1,072.5	1,563.2	2,053.9