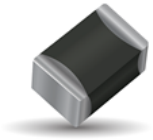
NB20Q00334MBA

(1206, 330 kOhm ±20%, 4300K, 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	330 kOhm
Tolerance on Resistance (25°C)	±20%
B 25/85	4300K±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

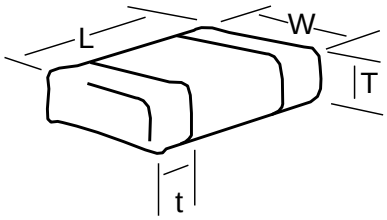
MSL 1
Pb Free
260°C

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	Q0	0334	M	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 = ±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)

NOTICE: Specifications are subject to change without notice. All statements, information and data given herein are beleived 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

Q0 (B25/85 = 4300K±3%)

B25/50	B25/75	B25/85	B25/100	B Tol
4221 K	4281 K	4300 K	4325 K	±3%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	98.04	25.30	-6.87	17,697,610	32,354,199	47,010,788
-50	69.53	21.86	-6.70	13,339,734	22,943,579	32,547,425
-45	49.73	18.79	-6.53	10,044,614	16,411,166	22,777,717
-40	35.87	16.07	-6.37	7,567,785	11,837,306	16,106,826
-35	26.08	13.65	-6.22	5,711,555	8,607,883	11,504,210
-30	19.12	11.50	-6.07	4,321,719	6,309,156	8,296,593
-25	14.12	9.60	-5.92	3,280,549	4,659,988	6,039,426
-20	10.51	7.93	-5.78	2,499,347	3,467,758	4,436,169
-15	7.877	6.45	-5.64	1,911,821	2,599,439	3,287,057
-10	5.947	5.16	-5.50	1,468,659	1,962,445	2,456,231
-5	4.521	4.04	-5.37	1,133,260	1,491,851	1,850,442
0	3.460	3.06	-5.24	878,479	1,141,798	1,405,117
5	2.666	2.22	-5.11	684,176	879,666	1,075,156
10	2.067	1.51	-4.99	535,383	682,089	828,796
15	1.613	0.91	-4.87	420,954	532,221	643,489
20	1.266	0.41	-4.75	332,569	417,835	503,101
25	1.000	0.00	-4.63	264,000	330,000	396,000
30	0.7944	0.39	-4.52	208,696	262,154	315,612
35	0.6347	0.84	-4.41	165,801	209,446	253,090
40	0.5099	1.33	-4.30	132,370	168,266	204,161
45	0.4119	1.87	-4.20	106,191	135,916	165,641
50	0.3344	2.45	-4.09	85,593	110,367	135,140
55	0.2730	3.06	-3.99	69,312	90,082	110,852
60	0.2239	3.70	-3.90	56,383	73,895	91,407
65	0.1846	4.37	-3.80	46,071	60,913	75,755
70	0.1529	5.06	-3.71	37,809	50,452	63,094
75	0.1272	5.77	-3.62	31,162	41,980	52,799
80	0.1063	6.50	-3.53	25,790	35,089	44,389
85	0.0893	7.25	-3.44	21,432	29,459	37,486
90	0.0753	8.01	-3.36	17,880	24,837	31,794
95	0.0637	8.78	-3.28	14,976	21,028	27,080
100	0.0542	9.57	-3.20	12,590	17,875	23,159
105	0.0462	10.36	-3.13	10,624	15,254	19,885
110	0.0396	11.15	-3.05	8,996.5	13,068	17,139
115	0.0340	11.96	-2.98	7,645.2	11,236	14,827
120	0.0294	12.77	-2.91	6,519.1	9,696.3	12,874
125	0.0254	13.58	-2.84	5,577.2	8,396.9	11,217
130	0.0221	14.39	-2.77	4,786.8	7,296.4	9,805.9
135	0.0193	15.21	-2.71	4,121.3	6,361.1	8,600.9
140	0.0169	16.03	-2.64	3,559.2	5,563.6	7,568.0
145	0.0148	16.84	-2.58	3,082.8	4,881.3	6,679.8
150	0.0130	17.66	-2.52	2,677.9	4,295.7	5,913.4