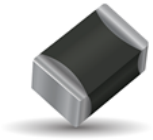
NB20Q00274KBA

(1206, 270 kOhm ±10%, 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	270 kOhm
Tolerance on Resistance (25°C)	±10%
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

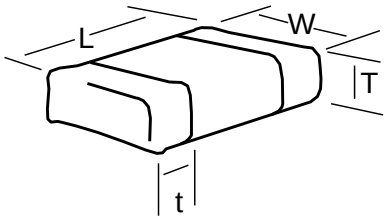
MSL 1
Pb Free
260°C

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	0274	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 = ±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	17,127,025	26,471,617	35,816,210
-50	69.53	21.86	-6.70	12,791,530	18,772,019	24,752,509
-45	49.73	18.79	-6.53	9,561,053	13,427,317	17,293,582
-40	35.87	16.07	-6.37	7,160,331	9,685,068	12,209,806
-35	26.08	13.65	-6.22	5,377,372	7,042,813	8,708,254
-30	19.12	11.50	-6.07	4,052,155	5,162,037	6,271,918
-25	14.12	9.60	-5.92	3,065,357	3,812,717	4,560,077
-20	10.51	7.93	-5.78	2,328,646	2,837,257	3,345,867
-15	7.877	6.45	-5.64	1,776,899	2,126,814	2,476,729
-10	5.947	5.16	-5.50	1,362,194	1,605,637	1,849,080
-5	4.521	4.04	-5.37	1,049,273	1,220,605	1,391,937
0	3.460	3.06	-5.24	812,176	934,198	1,056,221
5	2.666	2.22	-5.11	631,753	719,727	807,700
10	2.067	1.51	-4.99	493,848	558,073	622,299
15	1.613	0.91	-4.87	387,962	435,454	482,946
20	1.266	0.41	-4.75	306,289	341,865	377,441
25	1.000	0.00	-4.63	243,000	270,000	297,000
30	0.7944	0.39	-4.52	192,200	214,490	236,779
35	0.6347	0.84	-4.41	152,792	171,365	189,937
40	0.5099	1.33	-4.30	122,070	137,672	153,274
45	0.4119	1.87	-4.20	98,004	111,204	124,404
50	0.3344	2.45	-4.09	79,061	90,300	101,539
55	0.2730	3.06	-3.99	64,080	73,704	83,327
60	0.2239	3.70	-3.90	52,178	60,460	68,741
65	0.1846	4.37	-3.80	42,678	49,838	56,998
70	0.1529	5.06	-3.71	35,063	41,279	47,494
75	0.1272	5.77	-3.62	28,931	34,348	39,764
80	0.1063	6.50	-3.53	23,972	28,710	33,447
85	0.0893	7.25	-3.44	19,945	24,102	28,260
90	0.0753	8.01	-3.36	16,662	20,321	23,981
95	0.0637	8.78	-3.28	13,973	17,205	20,436
100	0.0542	9.57	-3.20	11,763	14,625	17,486
105	0.0462	10.36	-3.13	9,940.1	12,481	15,021
110	0.0396	11.15	-3.05	8,429.9	10,692	12,954
115	0.0340	11.96	-2.98	7,174.5	9,193.3	11,212
120	0.0294	12.77	-2.91	6,127.1	7,933.4	9,739.6
125	0.0254	13.58	-2.84	5,250.2	6,870.2	8,490.1
130	0.0221	14.39	-2.77	4,513.5	5,969.8	7,426.0
135	0.0193	15.21	-2.71	3,892.5	5,204.5	6,516.6
140	0.0169	16.03	-2.64	3,367.3	4,552.0	5,736.8
145	0.0148	16.84	-2.58	2,921.7	3,993.8	5,065.9
150	0.0130	17.66	-2.52	2,542.5	3,514.7	4,486.8