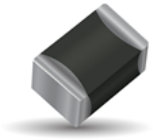
NB20Q00474KBA

(1206, 470 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	470 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

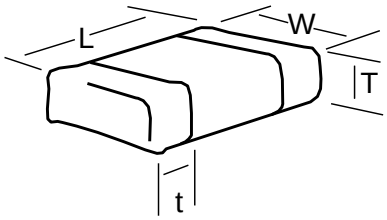
MSL 1
Pb Free
260°C

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	0474	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	29,813,710	46,080,223	62,346,736
-50	69.53	21.86	-6.70	22,266,737	32,677,219	43,087,701
-45	49.73	18.79	-6.53	16,643,314	23,373,478	30,103,643
-40	35.87	16.07	-6.37	12,464,279	16,859,193	21,254,106
-35	26.08	13.65	-6.22	9,360,610	12,259,712	15,158,813
-30	19.12	11.50	-6.07	7,053,752	8,985,768	10,917,784
-25	14.12	9.60	-5.92	5,335,992	6,636,952	7,937,912
-20	10.51	7.93	-5.78	4,053,569	4,938,928	5,824,288
-15	7.877	6.45	-5.64	3,093,120	3,702,232	4,311,343
-10	5.947	5.16	-5.50	2,371,226	2,794,997	3,218,769
-5	4.521	4.04	-5.37	1,826,512	2,124,757	2,423,002
0	3.460	3.06	-5.24	1,413,787	1,626,197	1,838,607
5	2.666	2.22	-5.11	1,099,719	1,252,858	1,405,996
10	2.067	1.51	-4.99	859,661	971,461	1,083,261
15	1.613	0.91	-4.87	675,341	758,012	840,683
20	1.266	0.41	-4.75	533,169	595,098	657,027
25	1.000	0.00	-4.63	423,000	470,000	517,000
30	0.7944	0.39	-4.52	334,571	373,371	412,172
35	0.6347	0.84	-4.41	265,971	298,301	330,631
40	0.5099	1.33	-4.30	212,493	239,651	266,810
45	0.4119	1.87	-4.20	170,599	193,578	216,556
50	0.3344	2.45	-4.09	137,624	157,189	176,753
55	0.2730	3.06	-3.99	111,547	128,299	145,051
60	0.2239	3.70	-3.90	90,828	105,244	119,661
65	0.1846	4.37	-3.80	74,292	86,755	99,219
70	0.1529	5.06	-3.71	61,035	71,855	82,675
75	0.1272	5.77	-3.62	50,361	59,790	69,220
80	0.1063	6.50	-3.53	41,729	49,976	58,223
85	0.0893	7.25	-3.44	34,719	41,956	49,193
90	0.0753	8.01	-3.36	29,003	35,374	41,745
95	0.0637	8.78	-3.28	24,324	29,949	35,574
100	0.0542	9.57	-3.20	20,477	25,458	30,439
105	0.0462	10.36	-3.13	17,303	21,726	26,148
110	0.0396	11.15	-3.05	14,674	18,612	22,549
115	0.0340	11.96	-2.98	12,489	16,003	19,517
120	0.0294	12.77	-2.91	10,666	13,810	16,954
125	0.0254	13.58	-2.84	9,139.2	11,959	14,779
130	0.0221	14.39	-2.77	7,856.8	10,392	12,927
135	0.0193	15.21	-2.71	6,775.8	9,059.8	11,344
140	0.0169	16.03	-2.64	5,861.6	7,923.9	9,986.3
145	0.0148	16.84	-2.58	5,085.9	6,952.2	8,818.4
150	0.0130	17.66	-2.52	4,425.9	6,118.1	7,810.3