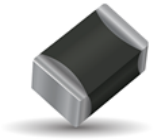
NB20Q00474J--

(1206, 470 kOhm ±5%, 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)	±5%
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

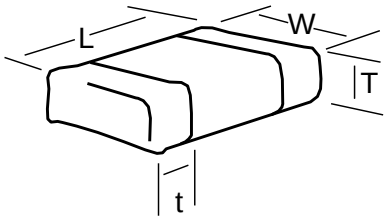
MSL 1
Pb Free
260°C

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	J	--
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	32,117,721	46,080,223	60,042,725
-50	69.53	21.86	-6.70	23,900,598	32,677,219	41,453,840
-45	49.73	18.79	-6.53	17,811,988	23,373,478	28,934,969
-40	35.87	16.07	-6.37	13,307,239	16,859,193	20,411,147
-35	26.08	13.65	-6.22	9,973,596	12,259,712	14,545,828
-30	19.12	11.50	-6.07	7,503,041	8,985,768	10,468,495
-25	14.12	9.60	-5.92	5,667,840	6,636,952	7,606,064
-20	10.51	7.93	-5.78	4,300,515	4,938,928	5,577,341
-15	7.877	6.45	-5.64	3,278,232	3,702,232	4,126,232
-10	5.947	5.16	-5.50	2,510,976	2,794,997	3,079,019
-5	4.521	4.04	-5.37	1,932,750	2,124,757	2,316,764
0	3.460	3.06	-5.24	1,495,097	1,626,197	1,757,297
5	2.666	2.22	-5.11	1,162,361	1,252,858	1,343,354
10	2.067	1.51	-4.99	908,234	971,461	1,034,688
15	1.613	0.91	-4.87	713,242	758,012	802,783
20	1.266	0.41	-4.75	562,924	595,098	627,272
25	1.000	0.00	-4.63	446,500	470,000	493,500
30	0.7944	0.39	-4.52	353,239	373,371	393,503
35	0.6347	0.84	-4.41	280,886	298,301	315,716
40	0.5099	1.33	-4.30	224,475	239,651	254,827
45	0.4119	1.87	-4.20	180,278	193,578	206,877
50	0.3344	2.45	-4.09	145,484	157,189	168,894
55	0.2730	3.06	-3.99	117,962	128,299	138,636
60	0.2239	3.70	-3.90	96,090	105,244	114,399
65	0.1846	4.37	-3.80	78,630	86,755	94,881
70	0.1529	5.06	-3.71	64,628	71,855	79,082
75	0.1272	5.77	-3.62	53,351	59,790	66,230
80	0.1063	6.50	-3.53	44,228	49,976	55,724
85	0.0893	7.25	-3.44	36,817	41,956	47,095
90	0.0753	8.01	-3.36	30,772	35,374	39,976
95	0.0637	8.78	-3.28	25,821	29,949	34,076
100	0.0542	9.57	-3.20	21,750	25,458	29,166
105	0.0462	10.36	-3.13	18,389	21,726	25,062
110	0.0396	11.15	-3.05	15,605	18,612	21,618
115	0.0340	11.96	-2.98	13,289	16,003	18,717
120	0.0294	12.77	-2.91	11,356	13,810	16,264
125	0.0254	13.58	-2.84	9,737.2	11,959	14,181
130	0.0221	14.39	-2.77	8,376.4	10,392	12,407
135	0.0193	15.21	-2.71	7,228.8	9,059.8	10,891
140	0.0169	16.03	-2.64	6,257.8	7,923.9	9,590.1
145	0.0148	16.84	-2.58	5,433.5	6,952.2	8,470.8
150	0.0130	17.66	-2.52	4,731.8	6,118.1	7,504.4