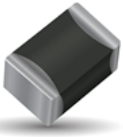


## NTC SMD Thermistor with Ni/Sn termination

for Automotive, Industrial and General applications

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**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)	$\pm 5\%$
B 25/85	4300K $\pm 3\%$
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)



MSL 1  
Pb Free  
260°C

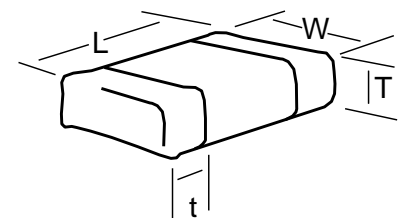


AEC-Q200  
based qualification

## Dimensions **WWWW**

mm (inches)

Size (EIA)	Length (L)	Width (W)	Thickness (T)	Terminal (t)
1206	3.2 $\pm 0.4$	1.6 $\pm 0.25$	1.5 max	0.2 min
	(0.126 $\pm 0.016$ )	(0.063 $\pm 0.01$ )	(0.059) max	(0.008) min



## How to Order (Packaging options)

<b>NB</b>	<b>20</b>	<b>Q0</b>	<b>0474</b>	<b>J</b>	<b>BA</b>
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 = $\pm 3\%*$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	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)
				* For selected PNs	

NOTICE: Specifications are subject to change without notice. All statements, information and data given herein are believed 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 $\pm 3\%$ )

T (°C)	R(T) / R25	TF (%)	$\alpha$ (%/°C)
-55	98.04	25.30	-6.87
-50	69.53	21.86	-6.70
-45	49.73	18.79	-6.53
-40	35.87	16.07	-6.37
-35	26.08	13.65	-6.22
-30	19.12	11.50	-6.07
-25	14.12	9.60	-5.92
-20	10.51	7.93	-5.78
-15	7.877	6.45	-5.64
-10	5.947	5.16	-5.50
-5	4.521	4.04	-5.37
0	3.460	3.06	-5.24
5	2.666	2.22	-5.11
10	2.067	1.51	-4.99
15	1.613	0.91	-4.87
20	1.266	0.41	-4.75
25	1.000	0.00	-4.63
30	0.7944	0.39	-4.52
35	0.6347	0.84	-4.41
40	0.5099	1.33	-4.30
45	0.4119	1.87	-4.20
50	0.3344	2.45	-4.09
55	0.2730	3.06	-3.99
60	0.2239	3.70	-3.90
65	0.1846	4.37	-3.80
70	0.1529	5.06	-3.71
75	0.1272	5.77	-3.62
80	0.1063	6.50	-3.53
85	0.0893	7.25	-3.44
90	0.0753	8.01	-3.36
95	0.0637	8.78	-3.28
100	0.0542	9.57	-3.20
105	0.0462	10.36	-3.13
110	0.0396	11.15	-3.05
115	0.0340	11.96	-2.98
120	0.0294	12.77	-2.91
125	0.0254	13.58	-2.84
130	0.0221	14.39	-2.77
135	0.0193	15.21	-2.71
140	0.0169	16.03	-2.64
145	0.0148	16.84	-2.58
150	0.0130	17.66	-2.52

B25/50	B25/75	B25/85	B25/100	B Tol
4221 K	4281 K	4300 K	4325 K	$\pm 3\%$

R Min ( $\Omega$ )	R Nom ( $\Omega$ )	R Max ( $\Omega$ )
32,117,721	46,080,223	60,042,725
23,900,598	32,677,219	41,453,840
17,811,988	23,373,478	28,934,969
13,307,239	16,859,193	20,411,147
9,973,596	12,259,712	14,545,828
7,503,041	8,985,768	10,468,495
5,667,840	6,636,952	7,606,064
4,300,515	4,938,928	5,577,341
3,278,232	3,702,232	4,126,232
2,510,976	2,794,997	3,079,019
1,932,750	2,124,757	2,316,764
1,495,097	1,626,197	1,757,297
1,162,361	1,252,858	1,343,354
908,234	971,461	1,034,688
713,242	758,012	802,783
562,924	595,098	627,272
446,500	470,000	493,500
353,239	373,371	393,503
280,886	298,301	315,716
224,475	239,651	254,827
180,278	193,578	206,877
145,484	157,189	168,894
117,962	128,299	138,636
96,090	105,244	114,399
78,630	86,755	94,881
64,628	71,855	79,082
53,351	59,790	66,230
44,228	49,976	55,724
36,817	41,956	47,095
30,772	35,374	39,976
25,821	29,949	34,076
21,750	25,458	29,166
18,389	21,726	25,062
15,605	18,612	21,618
13,289	16,003	18,717
11,356	13,810	16,264
9,737.2	11,959	14,181
8,376.4	10,392	12,407
7,228.8	9,059.8	10,891
6,257.8	7,923.9	9,590.1
5,433.5	6,952.2	8,470.8
4,731.8	6,118.1	7,504.4