

## NTC SMD Thermistor with AgPdPt 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. AgPdPt termination termination for conductive adhesive assembly (not suitable for lead free soldering - use NB series).

## Characteristics

Case Size	1206
Operating temperature	-55°C to +150°C
Resistance	22 kOhm
Tolerance on Resistance (25°C)	$\pm 3\%$
B 25/85	3790K $\pm 3\%$
Maximum dissipation at 25°C	0.24 W
Thermal dissipation factor	4 mW/°C
Thermal time constant	7 s
Termination	AgPdPt (for conductive adhesive)



MSL 1

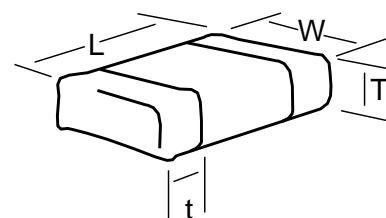


**AEC-Q200**  
based qualification

## Dimensions

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)

**NC**  
Type  
NC = AgPdPt for conductive adhesive

**20**  
Size  
20 = 1206

**L0**  
Material Code  
See Datasheet

**0223**  
Resistance (Ohm)  
2 Sig. Digits + Number of Zeros

**H**  
Tolerance  
H =  $\pm 3\%$ \*  
J =  $\pm 5\%$   
K =  $\pm 10\%$   
M =  $\pm 20\%$   
\* For selected PNs

**BA**  
Suffix: Packaging  
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 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

L0 (B25/85 = 3790K $\pm 3\%$ )

T (°C)	R(T) / R25	TF (%)	$\alpha$ (%/°C)
-55	82.54	22.30	-7.12
-50	58.03	19.27	-6.87
-45	41.31	16.57	-6.63
-40	29.75	14.16	-6.40
-35	21.68	12.03	-6.18
-30	15.97	10.14	-5.98
-25	11.88	8.46	-5.78
-20	8.931	6.99	-5.59
-15	6.777	5.69	-5.40
-10	5.188	4.55	-5.23
-5	4.007	3.56	-5.06
0	3.120	2.70	-4.90
5	2.449	1.96	-4.75
10	1.937	1.33	-4.60
15	1.543	0.80	-4.46
20	1.238	0.36	-4.33
25	1.000	0.00	-4.20
30	0.8128	0.35	-4.07
35	0.6648	0.74	-3.95
40	0.5469	1.17	-3.84
45	0.4525	1.65	-3.73
50	0.3764	2.16	-3.62
55	0.3148	2.69	-3.52
60	0.2646	3.26	-3.42
65	0.2235	3.85	-3.33
70	0.1896	4.46	-3.24
75	0.1616	5.09	-3.15
80	0.1383	5.73	-3.07
85	0.1189	6.39	-2.98
90	0.1026	7.06	-2.91
95	0.0889	7.74	-2.83
100	0.0773	8.43	-2.76
105	0.0674	9.13	-2.69
110	0.0590	9.83	-2.62
115	0.0519	10.54	-2.56
120	0.0457	11.25	-2.49
125	0.0404	11.97	-2.43
130	0.0358	12.69	-2.37
135	0.0319	13.41	-2.32
140	0.0284	14.13	-2.26
145	0.0254	14.85	-2.21
150	0.0228	15.57	-2.16

B25/50	B25/75	B25/85	B25/100	B Tol
3765 K	3784 K	3790 K	3798 K	$\pm 3\%$

R Min (Ω)	R Nom (Ω)	R Max (Ω)
1,356,516	1,815,946	2,275,376
992,351	1,276,600	1,560,848
730,927	908,718	1,086,509
542,252	654,599	766,945
405,255	476,932	548,609
305,129	351,276	397,422
231,454	261,421	291,387
176,864	196,485	216,107
136,132	149,084	162,035
105,528	114,146	122,763
82,374	88,155	93,937
64,737	68,649	72,561
51,212	53,885	56,557
40,773	42,618	44,463
32,664	33,953	35,243
26,325	27,240	28,154
21,340	22,000	22,660
17,284	17,883	18,481
14,079	14,625	15,172
11,530	12,032	12,535
9,492.6	9,955.3	10,418
7,854.8	8,281.8	8,708.9
6,531.4	6,925.8	7,320.2
5,456.6	5,821.0	6,185.3
4,579.4	4,916.1	5,252.8
3,860.2	4,171.2	4,482.3
3,267.6	3,555.1	3,842.6
2,777.4	3,043.1	3,308.7
2,370.0	2,615.6	2,861.2
2,030.1	2,257.2	2,484.2
1,745.3	1,955.3	2,165.4
1,505.8	1,700.2	1,894.5
1,303.7	1,483.6	1,663.5
1,132.4	1,299.1	1,465.8
986.8	1,141.3	1,295.8
862.5	1,005.9	1,149.3
756.2	889.3	1,022.4
664.9	788.6	912.3
586.2	701.3	816.4
518.3	625.4	732.5
459.4	559.2	659.1
408.3	501.4	594.5