

## 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	330 kOhm
Tolerance on Resistance (25°C)	$\pm 20\%$
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	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)

<b>NC</b>	<b>20</b>	<b>Q0</b>	<b>0334</b>	<b>M</b>	<b>BA</b>
Type	Size	Material Code	Resistance (Ohm)	Tolerance	Suffix: Packaging
NC = AgPdPt for conductive adhesive	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 ( $\Omega$ )
17,697,610	32,354,199	47,010,788
13,339,734	22,943,579	32,547,425
10,044,614	16,411,166	22,777,717
7,567,785	11,837,306	16,106,826
5,711,555	8,607,883	11,504,210
4,321,719	6,309,156	8,296,593
3,280,549	4,659,988	6,039,426
2,499,347	3,467,758	4,436,169
1,911,821	2,599,439	3,287,057
1,468,659	1,962,445	2,456,231
1,133,260	1,491,851	1,850,442
878,479	1,141,798	1,405,117
684,176	879,666	1,075,156
535,383	682,089	828,796
420,954	532,221	643,489
332,569	417,835	503,101
264,000	330,000	396,000
208,696	262,154	315,612
165,801	209,446	253,090
132,370	168,266	204,161
106,191	135,916	165,641
85,593	110,367	135,140
69,312	90,082	110,852
56,383	73,895	91,407
46,071	60,913	75,755
37,809	50,452	63,094
31,162	41,980	52,799
25,790	35,089	44,389
21,432	29,459	37,486
17,880	24,837	31,794
14,976	21,028	27,080
12,590	17,875	23,159
10,624	15,254	19,885
8,996.5	13,068	17,139
7,645.2	11,236	14,827
6,519.1	9,696.3	12,874
5,577.2	8,396.9	11,217
4,786.8	7,296.4	9,805.9
4,121.3	6,361.1	8,600.9
3,559.2	5,563.6	7,568.0
3,082.8	4,881.3	6,679.8
2,677.9	4,295.7	5,913.4