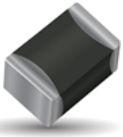


## NTC SMD Thermistor with AgPdPt termination

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	0805
Operating temperature	-55°C to +150°C
Resistance	120 kOhm
Tolerance on Resistance (25°C)	$\pm 10\%$
B 25/85	4220K $\pm 3\%$
Maximum dissipation at 25°C	0.12 W
Thermal dissipation factor	2 mW/°C
Thermal time constant	5 s
Termination	AgPdPt (for conductive adhesive)



MSL 1

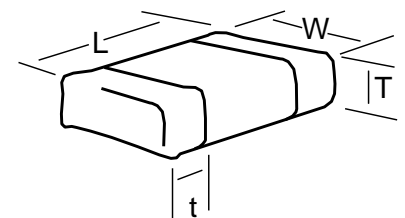


**AEC-Q200**  
based qualification

## Dimensions

mm (inches)

Size (EIA)	Length (L)	Width (W)	Thickness (T)	Terminal (t)
0805	2.0 $\pm 0.3$	1.25 $\pm 0.2$	1.3 max	0.2 min
	(0.079 $\pm 0.012$ )	(0.049 $\pm 0.008$ )	(0.051) max	(0.008) min



## How to Order (Packaging options)

<b>NC</b>	<b>12</b>	<b>P0</b>	<b>0124</b>	<b>K</b>	<b>BD</b>
Type	Size	Material Code	Resistance (Ohm)	Tolerance	Suffix: Packaging
NC = AgPdPt for conductive adhesive	12 = 0805	See Datasheet	2 Sig. Digits + Number of Zeros	H = $\pm 3\%*$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	BB = Cardboard tape (180mm reel, 4,000 pcs/reel) BF = Cardboard tape (180mm reel, 2,000 pcs/reel) BD = Cardboard 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

P0 (B25/85 = 4220K $\pm 3\%$ )

T (°C)	R(T) / R25	TF (%)	$\alpha$ (%/°C)
-55	121.4	24.83	-7.56
-50	83.35	21.45	-7.32
-45	57.92	18.44	-7.09
-40	40.72	15.77	-6.87
-35	28.95	13.39	-6.66
-30	20.80	11.29	-6.45
-25	15.10	9.42	-6.26
-20	11.07	7.78	-6.07
-15	8.197	6.33	-5.89
-10	6.123	5.07	-5.71
-5	4.615	3.96	-5.54
0	3.508	3.00	-5.38
5	2.688	2.18	-5.22
10	2.076	1.48	-5.07
15	1.616	0.89	-4.92
20	1.267	0.40	-4.78
25	1.000	0.00	-4.64
30	0.7949	0.38	-4.51
35	0.6359	0.82	-4.38
40	0.5120	1.31	-4.26
45	0.4148	1.84	-4.14
50	0.3379	2.40	-4.03
55	0.2769	3.00	-3.92
60	0.2281	3.63	-3.81
65	0.1890	4.28	-3.71
70	0.1573	4.96	-3.61
75	0.1316	5.66	-3.52
80	0.1106	6.38	-3.42
85	0.0934	7.11	-3.34
90	0.0792	7.86	-3.25
95	0.0674	8.62	-3.17
100	0.0577	9.39	-3.09
105	0.0495	10.16	-3.01
110	0.0427	10.95	-2.93
115	0.0369	11.74	-2.86
120	0.0320	12.53	-2.79
125	0.0279	13.33	-2.72
130	0.0244	14.13	-2.66
135	0.0214	14.93	-2.59
140	0.0188	15.73	-2.53
145	0.0166	16.53	-2.47
150	0.0147	17.33	-2.42

B25/50	B25/75	B25/85	B25/100	B Tol
4181 K	4211 K	4220 K	4232 K	$\pm 3\%$

R Min (Ω)	R Nom (Ω)	R Max (Ω)
9,492,467	14,565,769	19,639,070
6,855,887	10,001,639	13,147,392
4,973,715	6,950,879	8,928,043
3,627,556	4,886,899	6,146,242
2,661,462	3,474,212	4,286,963
1,965,025	2,496,447	3,027,870
1,460,370	1,812,399	2,164,427
1,092,607	1,328,865	1,565,122
822,995	983,651	1,144,307
624,110	734,817	845,524
476,474	553,792	631,111
366,181	420,921	475,662
283,263	322,556	361,850
220,530	249,132	277,733
172,773	193,886	214,999
136,191	151,997	167,803
108,000	120,000	132,000
85,478	95,383	105,289
68,055	76,314	84,573
54,495	61,443	68,391
43,880	49,771	55,662
35,524	40,553	45,582
28,910	33,229	37,549
23,646	27,377	31,109
19,435	22,674	25,913
16,050	18,875	21,699
13,316	15,789	18,262
11,096	13,270	15,444
9,286.6	11,204	13,122
7,804.4	9,501.4	11,198
6,585.1	8,091.7	9,598.3
5,578.0	6,919.5	8,261.0
4,742.7	5,940.6	7,138.5
4,047.3	5,119.7	6,192.2
3,466.0	4,428.6	5,391.3
2,978.4	3,844.6	4,710.8
2,567.8	3,349.1	4,130.3
2,220.9	2,927.2	3,633.4
1,926.9	2,566.7	3,206.6
1,676.8	2,257.7	2,838.6
1,463.4	1,991.9	2,520.4
1,280.8	1,762.6	2,244.3