

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	820 Ohm
Tolerance on Resistance (25°C)	$\pm 10\%$
B 25/85	3910K $\pm 3\%$
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 ± 0.3	1.25 ± 0.2	1.3 max	0.2 min
	(0.079 ± 0.012)	(0.049 ± 0.008)	(0.051) max	(0.008) min



How to Order (Packaging options)

NC  Type NC = AgPdPt for conductive adhesive	12  Size 12 = 0805	MC  Material Code See Datasheet	0821  Resistance (Ohm) 2 Sig. Digits + Number of Zeros	K  Tolerance H = $\pm 3\%$ * J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	--  Suffix: Packaging 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)
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* 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

MC (B25/85 = 3910K $\pm 3\%$)

T (°C)	R(T) / R25	TF (%)	α (%/°C)
-55	100.6	23.00	-7.56
-50	69.29	19.90	-7.27
-45	48.40	17.10	-7.00
-40	34.27	14.60	-6.75
-35	24.57	12.40	-6.50
-30	17.83	10.50	-6.27
-25	13.09	8.70	-6.05
-20	9.710	7.20	-5.84
-15	7.282	5.90	-5.64
-10	5.514	4.70	-5.45
-5	4.215	3.70	-5.27
0	3.250	2.80	-5.10
5	2.528	2.00	-4.93
10	1.982	1.40	-4.77
15	1.567	0.80	-4.62
20	1.247	0.40	-4.48
25	1.000	0.00	-4.34
30	0.8072	0.40	-4.21
35	0.6559	0.80	-4.08
40	0.5362	1.20	-3.96
45	0.4410	1.70	-3.85
50	0.3647	2.20	-3.74
55	0.3033	2.80	-3.63
60	0.2535	3.40	-3.53
65	0.2130	4.00	-3.43
70	0.1798	4.60	-3.34
75	0.1525	5.20	-3.25
80	0.1300	5.90	-3.16
85	0.1112	6.60	-3.08
90	0.0955	7.30	-2.99
95	0.0824	8.00	-2.92
100	0.0713	8.70	-2.84
105	0.0620	9.40	-2.77
110	0.0541	10.10	-2.70
115	0.0473	10.90	-2.63
120	0.0415	11.60	-2.57
125	0.0366	12.30	-2.51
130	0.0323	13.10	-2.45
135	0.0286	13.80	-2.39
140	0.0254	14.60	-2.33
145	0.0227	15.30	-2.28
150	0.0203	16.10	-2.23

B25/50	B25/75	B25/85	B25/100	B Tol
3887 K	3904 K	3910 K	3917 K	$\pm 3\%$

R Min (Ω)	R Nom (Ω)	R Max (Ω)
55,270	82,492	109,714
39,829	56,818	73,806
28,933	39,688	50,443
21,188	28,101	35,014
15,634	20,147	24,660
11,623	14,621	17,618
8,726.6	10,734	12,741
6,592.7	7,962.2	9,331.7
5,021.8	5,971.2	6,920.7
3,856.8	4,521.5	5,186.1
2,982.8	3,456.3	3,929.8
2,323.9	2,665.0	3,006.1
1,824.2	2,073.0	2,321.7
1,440.0	1,625.2	1,810.5
1,146.2	1,284.9	1,423.7
916.2	1,022.5	1,128.9
738.0	820.0	902.0
593.1	661.9	730.7
479.8	537.8	595.9
390.4	439.7	488.9
319.3	361.6	403.9
262.6	299.1	335.5
216.9	248.7	280.5
180.0	207.9	235.7
150.2	174.7	199.1
125.9	147.4	169.0
106.0	125.1	144.1
89.7	106.6	123.5
76.0	91.2	106.3
64.8	78.3	91.9
55.4	67.6	79.7
47.6	58.5	69.4
41.0	50.8	60.7
35.4	44.3	53.2
30.7	38.8	46.9
26.7	34.1	41.4
23.3	30.0	36.7
20.4	26.5	32.6
17.9	23.5	29.1
15.7	20.9	26.0
13.9	18.6	23.3
12.3	16.6	20.9