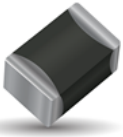


NTC SMD Thermistor with AgPdPt termination

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	2200 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	12	MC	0222	K	BD
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

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)
148,284	221,320	294,356
106,859	152,438	198,017
77,624	106,480	135,336
56,847	75,394	93,941
41,946	54,054	66,162
31,185	39,226	47,267
23,413	28,798	34,183
17,688	21,362	25,036
13,473	16,020	18,568
10,348	12,131	13,914
8,002.6	9,273.0	10,543
6,234.8	7,150.0	8,065.2
4,894.2	5,561.6	6,229.0
3,863.3	4,360.4	4,857.5
3,075.1	3,447.4	3,819.7
2,458.1	2,743.4	3,028.7
1,980.0	2,200.0	2,420.0
1,591.2	1,775.8	1,960.5
1,287.1	1,443.0	1,598.8
1,047.5	1,179.6	1,311.8
856.7	970.2	1,083.7
704.5	802.3	900.2
581.9	667.3	752.7
483.0	557.7	632.4
403.0	468.6	534.2
337.8	395.6	453.3
284.5	335.5	386.5
240.5	286.0	331.5
204.0	244.6	285.3
173.8	210.1	246.5
148.6	181.3	213.9
127.6	156.9	186.3
109.9	136.4	162.8
95.0	118.9	142.8
82.3	104.1	125.8
71.6	91.4	111.1
62.5	80.5	98.4
54.7	71.1	87.5
48.0	63.0	78.0
42.2	56.0	69.7
37.3	49.9	62.5
32.9	44.6	56.2