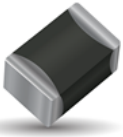


NTC SMD Thermistor with AgPdPt termination

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	2700 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	0272	K	BF
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)
181,985	271,620	361,255
131,145	187,083	243,021
95,266	130,680	166,094
69,767	92,529	115,291
51,479	66,339	81,199
38,272	48,141	58,010
28,734	35,343	41,952
21,708	26,217	30,726
16,535	19,661	22,788
12,699	14,888	17,076
9,821.4	11,381	12,940
7,651.8	8,775.0	9,898.2
6,006.5	6,825.6	7,644.7
4,741.3	5,351.4	5,961.5
3,774.0	4,230.9	4,687.8
3,016.7	3,366.9	3,717.1
2,430.0	2,700.0	2,970.0
1,952.8	2,179.4	2,406.1
1,579.7	1,770.9	1,962.2
1,285.6	1,447.7	1,609.9
1,051.4	1,190.7	1,330.0
864.6	984.7	1,104.8
714.1	818.9	923.7
592.7	684.5	776.2
494.6	575.1	655.6
414.6	485.5	556.3
349.2	411.8	474.3
295.2	351.0	406.8
250.4	300.2	350.1
213.3	257.9	302.5
182.4	222.5	262.5
156.6	192.6	228.6
134.9	167.4	199.8
116.6	146.0	175.3
101.0	127.7	154.4
87.9	112.1	136.4
76.7	98.8	120.8
67.1	87.2	107.4
58.9	77.3	95.7
51.8	68.7	85.6
45.7	61.2	76.7
40.4	54.7	68.9