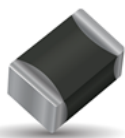


NTC SMD Thermistor with AgPdPt termination

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	3900 Ohm
Tolerance on Resistance (25°C)	$\pm 10\%$
B 25/85	3480K $\pm 3\%$
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 ± 0.4	1.6 ± 0.25	1.5 max	0.2 min
	(0.126 ± 0.016)	(0.063 ± 0.01)	(0.059) max	(0.008) min



How to Order (Packaging options)

NC
Type
NC = AgPdPt for conductive adhesive

20
Size
20 = 1206

J0
Material Code
See Datasheet

0392
Resistance (Ohm)
2 Sig. Digits + Number of Zeros

K
Tolerance
H = $\pm 3\%*$
J = $\pm 5\%$
K = $\pm 10\%$
M = $\pm 20\%$
* For selected PNs

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Suffix: Packaging
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)

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

J0 (B25/85 = 3480K $\pm 3\%$)

T (°C)	R(T) / R25	TF (%)	α (%/°C)
-55	51.75	20.47	-6.23
-50	37.98	17.69	-6.03
-45	28.15	15.21	-5.84
-40	21.07	13.00	-5.65
-35	15.91	11.04	-5.48
-30	12.13	9.31	-5.31
-25	9.321	7.77	-5.15
-20	7.222	6.41	-4.99
-15	5.640	5.22	-4.84
-10	4.438	4.18	-4.69
-5	3.517	3.27	-4.55
0	2.807	2.48	-4.42
5	2.255	1.80	-4.29
10	1.824	1.22	-4.17
15	1.484	0.73	-4.05
20	1.215	0.33	-3.93
25	1.000	0.00	-3.82
30	0.8278	0.32	-3.71
35	0.6889	0.68	-3.61
40	0.5763	1.08	-3.51
45	0.4845	1.51	-3.41
50	0.4092	1.98	-3.32
55	0.3472	2.47	-3.23
60	0.2960	2.99	-3.15
65	0.2533	3.53	-3.06
70	0.2177	4.09	-2.98
75	0.1879	4.67	-2.90
80	0.1628	5.26	-2.83
85	0.1415	5.87	-2.76
90	0.1235	6.48	-2.69
95	0.1081	7.11	-2.62
100	0.0950	7.74	-2.55
105	0.0837	8.38	-2.49
110	0.0740	9.03	-2.43
115	0.0656	9.68	-2.37
120	0.0584	10.33	-2.31
125	0.0521	10.99	-2.26
130	0.0466	11.65	-2.21
135	0.0417	12.31	-2.15
140	0.0375	12.97	-2.10
145	0.0338	13.63	-2.06
150	0.0305	14.29	-2.01

B25/50	B25/75	B25/85	B25/100	B Tol
3443 K	3471 K	3480 K	3492 K	$\pm 3\%$

R Min (Ω)	R Nom (Ω)	R Max (Ω)
140,322	201,830	263,337
107,103	148,115	189,128
82,114	109,791	137,469
63,268	82,170	101,072
49,005	62,067	75,128
38,166	47,298	56,430
29,892	36,352	42,811
23,544	28,167	32,790
18,648	21,997	25,345
14,854	17,308	19,762
11,898	13,718	15,538
9,581.9	10,948	12,314
7,758.3	8,796.2	9,834.0
6,314.8	7,113.0	7,911.1
5,166.4	5,787.6	6,408.8
4,248.0	4,737.3	5,226.7
3,510.0	3,900.0	4,290.0
2,895.4	3,228.5	3,561.6
2,399.9	2,686.8	2,973.7
1,998.6	2,247.6	2,496.6
1,671.9	1,889.4	2,107.0
1,404.8	1,596.0	1,787.1
1,185.3	1,354.3	1,523.2
1,004.3	1,154.3	1,304.2
854.3	988.0	1,121.7
729.5	849.2	968.9
625.3	732.8	840.3
537.9	634.8	731.7
464.4	551.9	639.5
402.2	481.6	561.0
349.6	421.7	493.8
304.7	370.5	436.2
266.5	326.5	386.5
233.7	288.7	343.6
205.6	256.0	306.4
181.4	227.7	274.0
160.4	203.0	245.7
142.3	181.6	220.9
126.5	162.8	199.1
112.7	146.4	180.0
100.7	131.9	163.1
90.2	119.1	148.1