

## 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	33 kOhm
Tolerance on Resistance (25°C)	$\pm 10\%$
B 25/85	3950K $\pm 3\%$
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 $\pm 0.4$	1.6 $\pm 0.25$	1.5 max	0.2 min
	(0.126 $\pm 0.016$ )	(0.063 $\pm 0.01$ )	(0.059) max	(0.008) min



## How to Order (Packaging options)

**NC**  
Type  
NC = AgPdPt for conductive adhesive

**20**  
Size  
20 = 1206

**M0**  
Material Code  
See Datasheet

**0333**  
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

**BA**  
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

**M0 (B25/85 = 3950K $\pm 3\%$ )**

T (°C)	R(T) / R25	TF (%)	$\alpha$ (%/°C)
-55	99.59	15.64	-7.42
-50	68.97	14.25	-7.16
-45	48.40	12.94	-6.91
-40	34.38	11.69	-6.67
-35	24.71	10.51	-6.45
-30	17.97	9.39	-6.23
-25	13.20	8.33	-6.02
-20	9.804	7.31	-5.82
-15	7.352	6.35	-5.63
-10	5.565	5.43	-5.45
-5	4.251	4.55	-5.28
0	3.275	3.70	-5.11
5	2.544	2.90	-4.95
10	1.992	2.13	-4.80
15	1.572	1.39	-4.65
20	1.249	0.68	-4.51
25	1.000	0.00	-4.38
30	0.8057	0.66	-4.25
35	0.6534	1.30	-4.12
40	0.5331	1.92	-4.00
45	0.4376	2.53	-3.89
50	0.3612	3.12	-3.77
55	0.2998	3.70	-3.67
60	0.2501	4.26	-3.57
65	0.2097	4.81	-3.47
70	0.1767	5.35	-3.37
75	0.1496	5.87	-3.28
80	0.1272	6.38	-3.19
85	0.1087	6.88	-3.11
90	0.0932	7.37	-3.03
95	0.0803	7.84	-2.95
100	0.0694	8.31	-2.87
105	0.0602	8.76	-2.80
110	0.0524	9.21	-2.73
115	0.0458	9.64	-2.66
120	0.0402	10.07	-2.60
125	0.0353	10.48	-2.53
130	0.0312	10.89	-2.47
135	0.0276	11.29	-2.41
140	0.0245	11.68	-2.36
145	0.0218	12.06	-2.30
150	0.0194	12.43	-2.25

B25/50	B25/75	B25/85	B25/100	B Tol
3925 K	3944 K	3950 K	3958 K	$\pm 3\%$

R Min (Ω)	R Nom (Ω)	R Max (Ω)
2,443,896	3,286,477	4,129,057
1,724,173	2,276,156	2,828,139
1,230,707	1,597,038	1,963,370
888,388	1,134,518	1,380,648
648,232	815,540	982,848
477,914	592,906	707,897
355,861	435,725	515,590
267,515	323,534	379,553
202,948	242,611	282,273
155,322	183,652	211,982
119,877	140,282	160,687
93,272	108,084	122,895
73,136	83,967	94,798
57,777	65,751	73,725
45,970	51,879	57,787
36,828	41,232	45,636
29,700	33,000	36,300
23,755	26,589	29,423
19,125	21,561	23,997
15,495	17,592	19,690
12,630	14,439	16,248
10,355	11,919	13,483
8,537.1	9,892.3	11,247
7,076.3	8,253.5	9,430.7
5,895.9	6,921.0	7,946.2
4,936.9	5,832.0	6,727.0
4,153.7	4,937.2	5,720.8
3,510.8	4,198.6	4,886.4
2,980.7	3,586.0	4,191.3
2,541.4	3,075.5	3,609.7
2,175.8	2,648.4	3,120.9
1,870.2	2,289.4	2,708.5
1,613.7	1,986.4	2,359.1
1,397.6	1,729.8	2,062.0
1,214.7	1,511.5	1,808.4
1,059.3	1,325.2	1,591.2
926.9	1,165.7	1,404.4
813.7	1,028.5	1,243.4
716.5	910.3	1,104.0
632.8	807.9	983.1
560.5	719.1	877.8
497.9	641.8	785.8