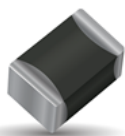


NTC SMD Thermistor with AgPdPt termination

for Automotive, Industrial and General applications

To view data online visit:

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	22 kOhm
Tolerance on Resistance (25°C)	$\pm 3\%$
B 25/85	3950K $\pm 3\%$
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

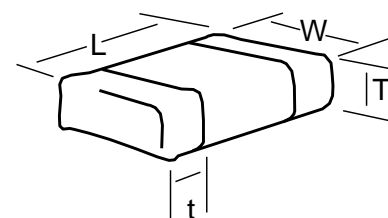


AEC-Q200
based qualification

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

M0
Material Code
See Datasheet

0223
Resistance
(Ohm)
2 Sig. Digits +
Number of Zeros

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

* For selected PNs

BB
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)

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 (%)	α (%/°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)
1,782,633	2,190,985	2,599,336
1,255,669	1,517,437	1,779,205
895,000	1,064,692	1,234,385
645,203	756,345	867,488
470,213	543,693	617,174
346,278	395,270	444,262
257,574	290,484	323,393
193,441	215,689	237,937
146,621	161,740	176,860
112,118	122,435	132,751
86,465	93,521	100,578
67,225	72,056	76,886
52,676	55,978	59,280
41,586	43,834	46,081
33,068	34,586	36,104
26,476	27,488	28,500
21,340	22,000	22,660
17,078	17,726	18,374
13,756	14,374	14,992
11,151	11,728	12,305
9,093.9	9,626.2	10,158
7,459.4	7,945.9	8,432.4
6,153.0	6,594.8	7,036.7
5,102.7	5,502.3	5,902.0
4,253.6	4,614.0	4,974.5
3,563.4	3,888.0	4,212.5
2,999.5	3,291.5	3,583.5
2,536.5	2,799.1	3,061.7
2,154.5	2,390.7	2,626.9
1,837.8	2,050.4	2,262.9
1,574.1	1,765.6	1,957.0
1,353.7	1,526.2	1,698.8
1,168.5	1,324.3	1,480.0
1,012.4	1,153.2	1,293.9
880.3	1,007.7	1,135.1
768.1	883.5	998.9
672.4	777.1	881.9
590.5	685.7	780.9
520.2	606.8	693.5
459.6	538.6	617.7
407.2	479.4	551.6
361.9	427.9	493.9