NTC SMD Thermistor with Ni/Sn termination

for Automotive, Industrial and General applications

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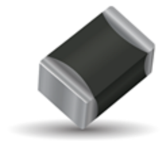


KYOCERA AVX Chip NTC Thermistors are high quality devices developed especially for surface mounting applications. They are widely used for temperature compensation, but can also achieve temperature control of printed circuits in a wide range of applications, including automotive, industrial and general purpose. Ni barrier/100% Sn plated termination for lead free soldering.

Characteristics

Case Size	1206
Operating temperature	-55°C to +150°C
Resistance	18 kOhm
Tolerance on Resistance (25°C)	±5%
B 25/85	3790K±3%
Maximum dissipation at 25°C	0.24 W
Thermal dissipation factor	4 mW/°C
Thermal time constant	7 s
Termination	Ni barrier/100%Sn (for Pb free soldering)

RoHS COMPLIANT

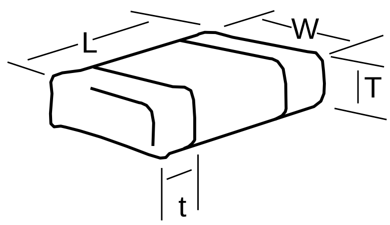
MSL 1
Pb Free
260°C

AEC-Q200
based qualification

Dimensions wwww

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)

NB	20	L0	0183	J	BE
Type NB = Ni/Sn Term for lead free soldering	**Size** 20 = 1206	**Material Code** See Datasheet	**Resistance (Ohm)** 2 Sig. Digits + Number of Zeros	**Tolerance** H = ±3%* J = ±5% K = ±10% M =±20%	**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)

* For selected PNs

Material Table

L0 (B25/85 = 3790K±3%)

B25/50	B25/75	B25/85	B25/100	B Tol
3765 K	3784 K	3790 K	3798 K	±3%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	82.54	22.30	-7.12	1,080,162	1,485,774	1,891,387
-50	58.03	19.27	-6.87	791,034	1,044,491	1,297,948
-45	41.31	16.57	-6.63	583,161	743,496	903,832
-40	29.75	14.16	-6.40	432,949	535,581	638,212
-35	21.68	12.03	-6.18	323,768	390,217	456,666
-30	15.97	10.14	-5.98	243,903	287,407	330,912
-25	11.88	8.46	-5.78	185,094	213,890	242,685
-20	8.931	6.99	-5.59	141,492	160,761	180,030
-15	6.777	5.69	-5.40	108,942	121,978	135,014
-10	5.188	4.55	-5.23	84,473	93,392	102,311
-5	4.007	3.56	-5.06	65,955	72,127	78,300
0	3.120	2.70	-4.90	51,843	56,167	60,492
5	2.449	1.96	-4.75	41,019	44,087	47,156
10	1.937	1.33	-4.60	32,662	34,869	37,076
15	1.543	0.80	-4.46	26,169	27,780	29,391
20	1.238	0.36	-4.33	21,093	22,287	23,481
25	1.000	0.00	-4.20	17,100	18,000	18,900
30	0.8128	0.35	-4.07	13,849	14,631	15,413
35	0.6648	0.74	-3.95	11,280	11,966	12,653
40	0.5469	1.17	-3.84	9,236.8	9,844.7	10,453
45	0.4525	1.65	-3.73	7,603.7	8,145.3	8,686.8
50	0.3764	2.16	-3.62	6,291.1	6,776.0	7,261.0
55	0.3148	2.69	-3.52	5,230.5	5,666.6	6,102.6
60	0.2646	3.26	-3.42	4,369.2	4,762.6	5,156.0
65	0.2235	3.85	-3.33	3,666.4	4,022.3	4,378.2
70	0.1896	4.46	-3.24	3,090.1	3,412.8	3,735.6
75	0.1616	5.09	-3.15	2,615.4	2,908.7	3,202.1
80	0.1383	5.73	-3.07	2,222.6	2,489.8	2,756.9
85	0.1189	6.39	-2.98	1,896.3	2,140.0	2,383.8
90	0.1026	7.06	-2.91	1,624.1	1,846.8	2,069.5
95	0.0889	7.74	-2.83	1,396.0	1,599.8	1,803.7
100	0.0773	8.43	-2.76	1,204.2	1,391.1	1,577.9
105	0.0674	9.13	-2.69	1,042.4	1,213.9	1,385.4
110	0.0590	9.83	-2.62	905.2	1,062.9	1,220.5
115	0.0519	10.54	-2.56	788.7	933.8	1,078.9
120	0.0457	11.25	-2.49	689.2	823.0	956.8
125	0.0404	11.97	-2.43	604.2	727.6	851.1
130	0.0358	12.69	-2.37	531.1	645.2	759.3
135	0.0319	13.41	-2.32	468.2	573.8	679.4
140	0.0284	14.13	-2.26	413.8	511.7	609.6
145	0.0254	14.85	-2.21	366.8	457.6	548.4
150	0.0228	15.57	-2.16	325.9	410.2	494.6