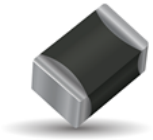
NB20J50822JBA

(1206, 8200 Ohm ±5%, 3480K, Ni/100% Sn)

NTC SMD Thermistor with Ni/Sn 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. Ni barrier/100% Sn plated termination for lead free soldering.

Characteristics

Case Size	1206
Operating temperature	-55°C to +150°C
Resistance	8200 Ohm
Tolerance on Resistance (25°C)	±5%
B 25/85	3480K±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

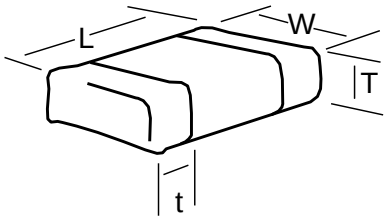
MSL 1
Pb Free
260°C

AEC-Q200
based qualification

Dimensions

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	J5	0822	J	BA
Type	**Size**	**Material Code**	**Resistance (Ohm)**	**Tolerance**	**Suffix: Packaging**
NB = Ni/Sn Term for lead free soldering	20 = 1206	See Datasheet	2 Sig. Digits + Number of Zeros	H = ±3%* J = ±5% K = ±10% M = ±20% * For selected PNs	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 beleived 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

J5 (B25/85 = 3480K±3%)

B25/50	B25/75	B25/85	B25/100	B Tol
3443 K	3471 K	3480 K	3492 K	±3%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	51.75	20.47	-6.23	316,254	424,360	532,465
-50	37.98	17.69	-6.03	240,761	311,422	382,082
-45	28.15	15.21	-5.84	184,191	230,844	277,496
-40	21.07	13.00	-5.65	141,663	172,767	203,871
-35	15.91	11.04	-5.48	109,561	130,499	151,437
-30	12.13	9.31	-5.31	85,220	99,448	113,676
-25	9.321	7.77	-5.15	66,671	76,431	86,192
-20	7.222	6.41	-4.99	52,463	59,223	65,983
-15	5.640	5.22	-4.84	41,522	46,250	50,977
-10	4.438	4.18	-4.69	33,052	36,391	39,731
-5	3.517	3.27	-4.55	26,458	28,842	31,227
0	2.807	2.48	-4.42	21,298	23,019	24,740
5	2.255	1.80	-4.29	17,237	18,495	19,752
10	1.824	1.22	-4.17	14,025	14,955	15,886
15	1.484	0.73	-4.05	11,471	12,169	12,866
20	1.215	0.33	-3.93	9,429.8	9,960.6	10,491
25	1.000	0.00	-3.82	7,790.0	8,200.0	8,610.0
30	0.8278	0.32	-3.71	6,427.1	6,788.1	7,149.0
35	0.6889	0.68	-3.61	5,328.5	5,649.2	5,970.0
40	0.5763	1.08	-3.51	4,438.4	4,725.7	5,012.9
45	0.4845	1.51	-3.41	3,713.9	3,972.7	4,231.4
50	0.4092	1.98	-3.32	3,121.4	3,355.6	3,589.8
55	0.3472	2.47	-3.23	2,634.6	2,847.4	3,060.2
60	0.2960	2.99	-3.15	2,233.0	2,426.9	2,620.9
65	0.2533	3.53	-3.06	1,900.1	2,077.4	2,254.7
70	0.2177	4.09	-2.98	1,623.2	1,785.5	1,947.9
75	0.1879	4.67	-2.90	1,391.8	1,540.8	1,689.8
80	0.1628	5.26	-2.83	1,197.8	1,334.7	1,471.7
85	0.1415	5.87	-2.76	1,034.4	1,160.5	1,286.6
90	0.1235	6.48	-2.69	896.3	1,012.6	1,128.9
95	0.1081	7.11	-2.62	779.3	886.6	994.0
100	0.0950	7.74	-2.55	679.7	778.9	878.2
105	0.0837	8.38	-2.49	594.7	686.5	778.4
110	0.0740	9.03	-2.43	521.8	607.0	692.1
115	0.0656	9.68	-2.37	459.2	538.2	617.2
120	0.0584	10.33	-2.31	405.3	478.7	552.1
125	0.0521	10.99	-2.26	358.6	426.9	495.2
130	0.0466	11.65	-2.21	318.2	381.8	445.3
135	0.0417	12.31	-2.15	283.1	342.3	401.6
140	0.0375	12.97	-2.10	252.4	307.7	363.0
145	0.0338	13.63	-2.06	225.6	277.3	329.0
150	0.0305	14.29	-2.01	202.2	250.5	298.8