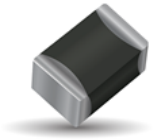
NB20J00682K--

(1206, 6800 Ohm ±10%, 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	6800 Ohm
Tolerance on Resistance (25°C)	±10%
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

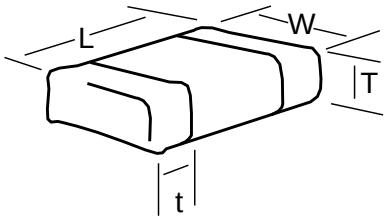
MSL 1
Pb Free 260°C

AEC-Q200 based qualification

Dimensions 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	J0	0682	K	--
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

J0 (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	244,664	351,908	459,152
-50	37.98	17.69	-6.03	186,743	258,252	329,761
-45	28.15	15.21	-5.84	143,172	191,431	239,690
-40	21.07	13.00	-5.65	110,313	143,270	176,228
-35	15.91	11.04	-5.48	85,445	108,219	130,993
-30	12.13	9.31	-5.31	66,546	82,469	98,392
-25	9.321	7.77	-5.15	52,119	63,382	74,645
-20	7.222	6.41	-4.99	41,050	49,112	57,173
-15	5.640	5.22	-4.84	32,515	38,353	44,191
-10	4.438	4.18	-4.69	25,900	30,178	34,457
-5	3.517	3.27	-4.55	20,745	23,918	27,091
0	2.807	2.48	-4.42	16,707	19,089	21,471
5	2.255	1.80	-4.29	13,527	15,337	17,147
10	1.824	1.22	-4.17	11,010	12,402	13,794
15	1.484	0.73	-4.05	9,008.0	10,091	11,174
20	1.215	0.33	-3.93	7,406.8	8,260.0	9,113.1
25	1.000	0.00	-3.82	6,120.0	6,800.0	7,480.0
30	0.8278	0.32	-3.71	5,048.4	5,629.1	6,209.9
35	0.6889	0.68	-3.61	4,184.5	4,684.7	5,185.0
40	0.5763	1.08	-3.51	3,484.7	3,918.8	4,353.0
45	0.4845	1.51	-3.41	2,915.1	3,294.4	3,673.7
50	0.4092	1.98	-3.32	2,449.3	2,782.7	3,116.0
55	0.3472	2.47	-3.23	2,066.7	2,361.3	2,655.8
60	0.2960	2.99	-3.15	1,751.1	2,012.6	2,274.1
65	0.2533	3.53	-3.06	1,489.6	1,722.7	1,955.9
70	0.2177	4.09	-2.98	1,272.0	1,480.7	1,689.4
75	0.1879	4.67	-2.90	1,090.3	1,277.7	1,465.2
80	0.1628	5.26	-2.83	937.9	1,106.8	1,275.8
85	0.1415	5.87	-2.76	809.7	962.4	1,115.0
90	0.1235	6.48	-2.69	701.3	839.7	978.1
95	0.1081	7.11	-2.62	609.5	735.3	861.0
100	0.0950	7.74	-2.55	531.3	645.9	760.5
105	0.0837	8.38	-2.49	464.7	569.3	674.0
110	0.0740	9.03	-2.43	407.6	503.3	599.1
115	0.0656	9.68	-2.37	358.5	446.3	534.2
120	0.0584	10.33	-2.31	316.2	396.9	477.7
125	0.0521	10.99	-2.26	279.7	354.0	428.3
130	0.0466	11.65	-2.21	248.1	316.6	385.1
135	0.0417	12.31	-2.15	220.5	283.9	347.2
140	0.0375	12.97	-2.10	196.6	255.2	313.8
145	0.0338	13.63	-2.06	175.6	230.0	284.3
150	0.0305	14.29	-2.01	157.3	207.7	258.2