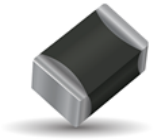
NB20J00472HBC

(1206, 4700 Ohm ±3%, 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	4700 Ohm
Tolerance on Resistance (25°C)	±3%
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

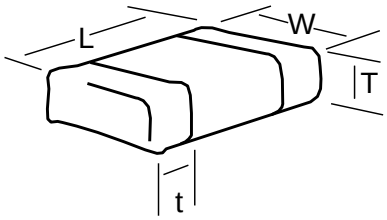
MSL 1
Pb Free
260°C

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	0472	H	BC
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)

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	186,132	243,231	300,329
-50	37.98	17.69	-6.03	141,567	178,498	215,428
-45	28.15	15.21	-5.84	108,219	132,313	156,406
-40	21.07	13.00	-5.65	83,177	99,025	114,873
-35	15.91	11.04	-5.48	64,293	74,798	85,303
-30	12.13	9.31	-5.31	49,985	57,001	64,016
-25	9.321	7.77	-5.15	39,090	43,808	48,527
-20	7.222	6.41	-4.99	30,749	33,945	37,140
-15	5.640	5.22	-4.84	24,329	26,509	28,688
-10	4.438	4.18	-4.69	19,361	20,858	22,355
-5	3.517	3.27	-4.55	15,496	16,532	17,568
0	2.807	2.48	-4.42	12,471	13,194	13,916
5	2.255	1.80	-4.29	10,092	10,601	11,109
10	1.824	1.22	-4.17	8,210.2	8,572.0	8,933.8
15	1.484	0.73	-4.05	6,714.4	6,974.8	7,235.2
20	1.215	0.33	-3.93	5,519.0	5,709.1	5,899.2
25	1.000	0.00	-3.82	4,559.0	4,700.0	4,841.0
30	0.8278	0.32	-3.71	3,761.7	3,890.7	4,019.8
35	0.6889	0.68	-3.61	3,118.9	3,238.0	3,357.1
40	0.5763	1.08	-3.51	2,598.1	2,708.6	2,819.1
45	0.4845	1.51	-3.41	2,174.2	2,277.0	2,379.8
50	0.4092	1.98	-3.32	1,827.5	1,923.3	2,019.1
55	0.3472	2.47	-3.23	1,542.7	1,632.1	1,721.4
60	0.2960	2.99	-3.15	1,307.7	1,391.0	1,474.4
65	0.2533	3.53	-3.06	1,112.9	1,190.7	1,268.5
70	0.2177	4.09	-2.98	950.8	1,023.4	1,096.0
75	0.1879	4.67	-2.90	815.4	883.1	950.9
80	0.1628	5.26	-2.83	701.8	765.0	828.2
85	0.1415	5.87	-2.76	606.2	665.2	724.1
90	0.1235	6.48	-2.69	525.4	580.4	635.4
95	0.1081	7.11	-2.62	456.8	508.2	559.6
100	0.0950	7.74	-2.55	398.5	446.5	494.4
105	0.0837	8.38	-2.49	348.7	393.5	438.3
110	0.0740	9.03	-2.43	306.0	347.9	389.7
115	0.0656	9.68	-2.37	269.4	308.5	347.6
120	0.0584	10.33	-2.31	237.8	274.4	310.9
125	0.0521	10.99	-2.26	210.5	244.7	278.9
130	0.0466	11.65	-2.21	186.8	218.8	250.9
135	0.0417	12.31	-2.15	166.2	196.2	226.2
140	0.0375	12.97	-2.10	148.2	176.4	204.5
145	0.0338	13.63	-2.06	132.5	158.9	185.4
150	0.0305	14.29	-2.01	118.8	143.6	168.4