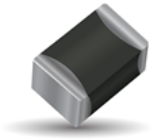
NB12J00392HBB

(0805, 3900 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	0805
Operating temperature	-55°C to +150°C
Resistance	3900 Ohm
Tolerance on Resistance (25°C)	±3%
B 25/85	3480K±3%
Maximum dissipation at 25°C	0.12 W
Thermal dissipation factor	2 mW/°C
Thermal time constant	5 s
Termination	Ni barrier/100%Sn (for Pb free soldering)

RoHS COMPLIANT

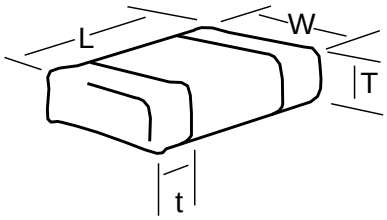
MSL 1
Pb Free
260°C

AEC-Q200
based qualification

Dimensions

mm (inches)

Size (EIA)	Length (L)	Width (W)	Thickness (T)	Terminal (t)
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)

NB	12	J0	0392	H	BB
Type	**Size**	**Material Code**	**Resistance (Ohm)**	**Tolerance**	**Suffix: Packaging**
NB = Ni/Sn Term for lead free soldering	12 = 0805	See Datasheet	2 Sig. Digits + Number of Zeros	H = ±3%* J = ±5% K = ±10% M = ±20%	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)

* For selected PNs

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	154,450	201,830	249,209
-50	37.98	17.69	-6.03	117,471	148,115	178,760
-45	28.15	15.21	-5.84	89,799	109,791	129,784
-40	21.07	13.00	-5.65	69,019	82,170	95,320
-35	15.91	11.04	-5.48	53,350	62,067	70,784
-30	12.13	9.31	-5.31	41,477	47,298	53,120
-25	9.321	7.77	-5.15	32,436	36,352	40,267
-20	7.222	6.41	-4.99	25,515	28,167	30,819
-15	5.640	5.22	-4.84	20,188	21,997	23,805
-10	4.438	4.18	-4.69	16,066	17,308	18,550
-5	3.517	3.27	-4.55	12,858	13,718	14,577
0	2.807	2.48	-4.42	10,348	10,948	11,548
5	2.255	1.80	-4.29	8,374.0	8,796.2	9,218.3
10	1.824	1.22	-4.17	6,812.7	7,113.0	7,413.2
15	1.484	0.73	-4.05	5,571.5	5,787.6	6,003.7
20	1.215	0.33	-3.93	4,579.6	4,737.3	4,895.0
25	1.000	0.00	-3.82	3,783.0	3,900.0	4,017.0
30	0.8278	0.32	-3.71	3,121.4	3,228.5	3,335.6
35	0.6889	0.68	-3.61	2,588.0	2,686.8	2,785.7
40	0.5763	1.08	-3.51	2,155.9	2,247.6	2,339.2
45	0.4845	1.51	-3.41	1,804.2	1,889.4	1,974.7
50	0.4092	1.98	-3.32	1,516.5	1,596.0	1,675.4
55	0.3472	2.47	-3.23	1,280.1	1,354.3	1,428.4
60	0.2960	2.99	-3.15	1,085.1	1,154.3	1,223.4
65	0.2533	3.53	-3.06	923.5	988.0	1,052.6
70	0.2177	4.09	-2.98	789.0	849.2	909.5
75	0.1879	4.67	-2.90	676.6	732.8	789.0
80	0.1628	5.26	-2.83	582.4	634.8	687.2
85	0.1415	5.87	-2.76	503.0	551.9	600.9
90	0.1235	6.48	-2.69	435.9	481.6	527.3
95	0.1081	7.11	-2.62	379.1	421.7	464.3
100	0.0950	7.74	-2.55	330.7	370.5	410.3
105	0.0837	8.38	-2.49	289.4	326.5	363.7
110	0.0740	9.03	-2.43	254.0	288.7	323.4
115	0.0656	9.68	-2.37	223.5	256.0	288.4
120	0.0584	10.33	-2.31	197.3	227.7	258.0
125	0.0521	10.99	-2.26	174.6	203.0	231.4
130	0.0466	11.65	-2.21	155.0	181.6	208.2
135	0.0417	12.31	-2.15	137.9	162.8	187.7
140	0.0375	12.97	-2.10	123.0	146.4	169.7
145	0.0338	13.63	-2.06	110.0	131.9	153.8
150	0.0305	14.29	-2.01	98.5	119.1	139.7