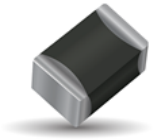
NB12J00332K--

(0805, 3300 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	0805
Operating temperature	-55°C to +150°C
Resistance	3300 Ohm
Tolerance on Resistance (25°C)	±10%
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

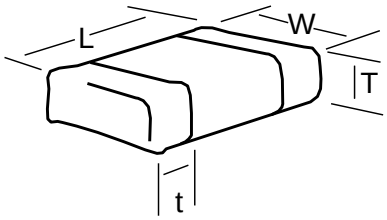
MSL 1
Pb Free
260°C

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	0332	K	--
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	118,734	170,779	222,824
-50	37.98	17.69	-6.03	90,625	125,328	160,031
-45	28.15	15.21	-5.84	69,481	92,900	116,320
-40	21.07	13.00	-5.65	53,534	69,528	85,522
-35	15.91	11.04	-5.48	41,466	52,518	63,570
-30	12.13	9.31	-5.31	32,295	40,022	47,749
-25	9.321	7.77	-5.15	25,293	30,759	36,225
-20	7.222	6.41	-4.99	19,921	23,834	27,746
-15	5.640	5.22	-4.84	15,779	18,613	21,446
-10	4.438	4.18	-4.69	12,569	14,645	16,722
-5	3.517	3.27	-4.55	10,067	11,607	13,147
0	2.807	2.48	-4.42	8,107.8	9,263.7	10,420
5	2.255	1.80	-4.29	6,564.7	7,442.9	8,321.1
10	1.824	1.22	-4.17	5,343.3	6,018.7	6,694.0
15	1.484	0.73	-4.05	4,371.5	4,897.2	5,422.8
20	1.215	0.33	-3.93	3,594.5	4,008.5	4,422.6
25	1.000	0.00	-3.82	2,970.0	3,300.0	3,630.0
30	0.8278	0.32	-3.71	2,449.9	2,731.8	3,013.6
35	0.6889	0.68	-3.61	2,030.7	2,273.5	2,516.2
40	0.5763	1.08	-3.51	1,691.1	1,901.8	2,112.5
45	0.4845	1.51	-3.41	1,414.7	1,598.8	1,782.8
50	0.4092	1.98	-3.32	1,188.6	1,350.4	1,512.2
55	0.3472	2.47	-3.23	1,003.0	1,145.9	1,288.9
60	0.2960	2.99	-3.15	849.8	976.7	1,103.6
65	0.2533	3.53	-3.06	722.9	836.0	949.2
70	0.2177	4.09	-2.98	617.3	718.6	819.8
75	0.1879	4.67	-2.90	529.1	620.1	711.0
80	0.1628	5.26	-2.83	455.2	537.1	619.1
85	0.1415	5.87	-2.76	392.9	467.0	541.1
90	0.1235	6.48	-2.69	340.4	407.5	474.7
95	0.1081	7.11	-2.62	295.8	356.8	417.9
100	0.0950	7.74	-2.55	257.9	313.5	369.1
105	0.0837	8.38	-2.49	225.5	276.3	327.1
110	0.0740	9.03	-2.43	197.8	244.3	290.7
115	0.0656	9.68	-2.37	174.0	216.6	259.2
120	0.0584	10.33	-2.31	153.5	192.6	231.8
125	0.0521	10.99	-2.26	135.7	171.8	207.9
130	0.0466	11.65	-2.21	120.4	153.6	186.9
135	0.0417	12.31	-2.15	107.0	137.8	168.5
140	0.0375	12.97	-2.10	95.4	123.8	152.3
145	0.0338	13.63	-2.06	85.2	111.6	138.0
150	0.0305	14.29	-2.01	76.3	100.8	125.3