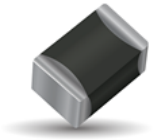
NB21J00472JBD

(0603, 4700 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	0603
Operating temperature	-55°C to +150°C
Resistance	4700 Ohm
Tolerance on Resistance (25°C)	±5%
B 25/85	3480K±3%
Maximum dissipation at 25°C	0.07 W
Thermal dissipation factor	1 mW/°C
Thermal time constant	4 s
Termination	Ni barrier/100%Sn (for Pb free soldering)

RoHS COMPLIANT

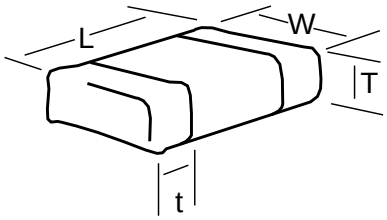
MSL 1
Pb Free
260°C

AEC-Q200
based qualification

Dimensions

mm (inches)

Size (EIA)	Length (L)	Width (W)	Thickness (T)	Terminal (t)
0603	1.6±0.2	0.8±0.2	1.0 max	0.2 min
	(0.063±0.008)	(0.031±0.008)	(0.039) max	(0.008) min



How to Order (Packaging options)

NB	21	J0	0472	J	BD
Type	**Size**	**Material Code**	**Resistance (Ohm)**	**Tolerance**	**Suffix: Packaging**
NB = Ni/Sn Term for lead free soldering	21 = 0603	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	181,268	243,231	305,194
-50	37.98	17.69	-6.03	137,997	178,498	218,998
-45	28.15	15.21	-5.84	105,573	132,313	159,053
-40	21.07	13.00	-5.65	81,197	99,025	116,853
-35	15.91	11.04	-5.48	62,797	74,798	86,799
-30	12.13	9.31	-5.31	48,845	57,001	65,156
-25	9.321	7.77	-5.15	38,214	43,808	49,403
-20	7.222	6.41	-4.99	30,070	33,945	37,819
-15	5.640	5.22	-4.84	23,799	26,509	29,219
-10	4.438	4.18	-4.69	18,944	20,858	22,773
-5	3.517	3.27	-4.55	15,165	16,532	17,898
0	2.807	2.48	-4.42	12,207	13,194	14,180
5	2.255	1.80	-4.29	9,880	10,601	11,321
10	1.824	1.22	-4.17	8,039	8,572	9,105
15	1.484	0.73	-4.05	6,575	6,975	7,375
20	1.215	0.33	-3.93	5,405	5,709	6,013
25	1.000	0.00	-3.82	4,465	4,700	4,935
30	0.8278	0.32	-3.71	3,684	3,891	4,098
35	0.6889	0.68	-3.61	3,054	3,238	3,422
40	0.5763	1.08	-3.51	2,544	2,709	2,873
45	0.4845	1.51	-3.41	2,129	2,277	2,425
50	0.4092	1.98	-3.32	1,789	1,923	2,058
55	0.3472	2.47	-3.23	1,510	1,632	1,754
60	0.2960	2.99	-3.15	1,280	1,391	1,502
65	0.2533	3.53	-3.06	1,089	1,191	1,292
70	0.2177	4.09	-2.98	930.4	1,023	1,116
75	0.1879	4.67	-2.90	797.7	883.1	968.5
80	0.1628	5.26	-2.83	686.5	765.0	843.5
85	0.1415	5.87	-2.76	592.9	665.2	737.4
90	0.1235	6.48	-2.69	513.8	580.4	647.0
95	0.1081	7.11	-2.62	446.7	508.2	569.7
100	0.0950	7.74	-2.55	389.6	446.5	503.3
105	0.0837	8.38	-2.49	340.8	393.5	446.1
110	0.0740	9.03	-2.43	299.1	347.9	396.7
115	0.0656	9.68	-2.37	263.2	308.5	353.8
120	0.0584	10.33	-2.31	232.3	274.4	316.4
125	0.0521	10.99	-2.26	205.6	244.7	283.8
130	0.0466	11.65	-2.21	182.4	218.8	255.3
135	0.0417	12.31	-2.15	162.2	196.2	230.2
140	0.0375	12.97	-2.10	144.7	176.4	208.1
145	0.0338	13.63	-2.06	129.3	158.9	188.6
150	0.0305	14.29	-2.01	115.9	143.6	171.3