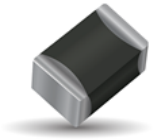
NB12L00153JBB

(0805, 15 kOhm ±5%, 3790K, 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	15 kOhm
Tolerance on Resistance (25°C)	±5%
B 25/85	3790K±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

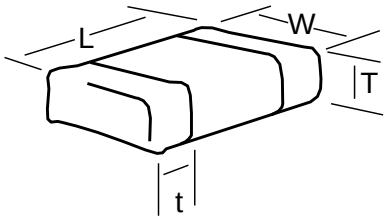
MSL 1
Pb Free
260°C

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	L0	0153	J	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

L0 (B25/85 = 3790K±3%)

B25/50	B25/75	B25/85	B25/100	B Tol
3765 K	3784 K	3790 K	3798 K	±3%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	82.54	22.30	-7.12	900,135	1,238,145	1,576,156
-50	58.03	19.27	-6.87	659,195	870,409	1,081,623
-45	41.31	16.57	-6.63	485,968	619,580	753,193
-40	29.75	14.16	-6.40	360,791	446,317	531,843
-35	21.68	12.03	-6.18	269,806	325,181	380,555
-30	15.97	10.14	-5.98	203,253	239,506	275,760
-25	11.88	8.46	-5.78	154,245	178,241	202,238
-20	8.931	6.99	-5.59	117,910	133,967	150,025
-15	6.777	5.69	-5.40	90,785	101,648	112,511
-10	5.188	4.55	-5.23	70,395	77,827	85,259
-5	4.007	3.56	-5.06	54,962	60,106	65,250
0	3.120	2.70	-4.90	43,203	46,806	50,410
5	2.449	1.96	-4.75	34,183	36,740	39,296
10	1.937	1.33	-4.60	27,219	29,058	30,897
15	1.543	0.80	-4.46	21,808	23,150	24,492
20	1.238	0.36	-4.33	17,577	18,572	19,568
25	1.000	0.00	-4.20	14,250	15,000	15,750
30	0.8128	0.35	-4.07	11,541	12,193	12,844
35	0.6648	0.74	-3.95	9,399.6	9,971.9	10,544
40	0.5469	1.17	-3.84	7,697.3	8,203.9	8,710.4
45	0.4525	1.65	-3.73	6,336.5	6,787.7	7,239.0
50	0.3764	2.16	-3.62	5,242.6	5,646.7	6,050.8
55	0.3148	2.69	-3.52	4,358.8	4,722.1	5,085.5
60	0.2646	3.26	-3.42	3,641.0	3,968.8	4,296.6
65	0.2235	3.85	-3.33	3,055.3	3,351.9	3,648.5
70	0.1896	4.46	-3.24	2,575.0	2,844.0	3,113.0
75	0.1616	5.09	-3.15	2,179.5	2,423.9	2,668.4
80	0.1383	5.73	-3.07	1,852.2	2,074.8	2,297.5
85	0.1189	6.39	-2.98	1,580.3	1,783.4	1,986.5
90	0.1026	7.06	-2.91	1,353.4	1,539.0	1,724.6
95	0.0889	7.74	-2.83	1,163.3	1,333.2	1,503.0
100	0.0773	8.43	-2.76	1,003.5	1,159.2	1,314.9
105	0.0674	9.13	-2.69	868.6	1,011.5	1,154.5
110	0.0590	9.83	-2.62	754.4	885.7	1,017.1
115	0.0519	10.54	-2.56	657.2	778.2	899.1
120	0.0457	11.25	-2.49	574.4	685.8	797.3
125	0.0404	11.97	-2.43	503.5	606.4	709.2
130	0.0358	12.69	-2.37	442.6	537.7	632.8
135	0.0319	13.41	-2.32	390.2	478.2	566.2
140	0.0284	14.13	-2.26	344.9	426.4	508.0
145	0.0254	14.85	-2.21	305.6	381.3	457.0
150	0.0228	15.57	-2.16	271.6	341.9	412.2