NB12MC0152JBB

(0805, 1500 Ohm ±5%, 3910 K, Sn Term)

NTC Chip Thermistor Datasheet

BASIC SPECIFICATION

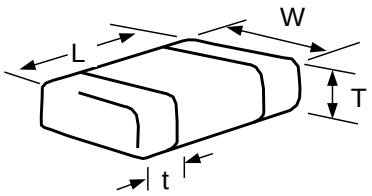
Case Size [EIA]	0805
Operating Temperature	-55 to +150°C
Grade	Automotive & General
Qualification	AEC-Q200 based
Termination	Sn
Assembly	Pb Free Reflow
RoHS	Yes
MSL Level	1
Packaging	T&R 7in (180mm)
Packaging Qty	4000

AEC-Q200 based Qual | **RoHS Compliant** | **Click for Online Data**

ELECTRICAL CHARACTERISTICS

Resistance [25°C]	1500 Ohm
Resistance Tolerance [25°C]	±5%
B Value (25/85)	3910 K
B Value Tolerance	±3%
B Value (25/50)	3887 K
B Value (25/100)	3917 K
Maximum Dissipation [25°C]	0.12 W
Thermal Dissipation Factor	2 mW/°C
Thermal Time Constant	5 s

DIMENSIONS



	mm	inches
L	2.0±0.3	0.079±0.012
W	1.25±0.2	0.049±0.008
T	1.3 max	0.051 max
t	0.2 min	0.008 min

HOW TO ORDER

NB	12	MC	0152	J	BB
Type	Case Size	Material Code	Resistance	Tolerance	Packaging
NB = Sn Term	12 = 0805	MC = 3910 K	0152 = 1500 Ohm	J = ±5%	BB = Cardboard tape (180mm reel, 4000 pcs/reel) BF = Cardboard tape (180mm reel, 2000 pcs/reel) BD = Cardboard tape (330mm reel, 10000 pcs/reel) -- = Bulk (5000 pcs/bag)

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MATERIAL TABLE

T (°C)	R(T) / R25	TF (%)	α (%/°C)
-55	100.6	23.00	-7.56
-50	69.29	19.90	-7.27
-45	48.40	17.10	-7.00
-40	34.27	14.60	-6.75
-35	24.57	12.40	-6.50
-30	17.83	10.50	-6.27
-25	13.09	8.70	-6.05
-20	9.710	7.20	-5.84
-15	7.282	5.90	-5.64
-10	5.514	4.70	-5.45
-5	4.215	3.70	-5.27
0	3.250	2.80	-5.10
5	2.528	2.00	-4.93
10	1.982	1.40	-4.77
15	1.567	0.80	-4.62
20	1.247	0.40	-4.48
25	1.000	0.00	-4.34
30	0.8072	0.40	-4.21
35	0.6559	0.80	-4.08
40	0.5362	1.20	-3.96
45	0.4410	1.70	-3.85
50	0.3647	2.20	-3.74
55	0.3033	2.80	-3.63
60	0.2535	3.40	-3.53
65	0.2130	4.00	-3.43
70	0.1798	4.60	-3.34
75	0.1525	5.20	-3.25
80	0.1300	5.90	-3.16
85	0.1112	6.60	-3.08
90	0.0955	7.30	-2.99
95	0.0824	8.00	-2.92
100	0.0713	8.70	-2.84
105	0.0620	9.40	-2.77
110	0.0541	10.10	-2.70
115	0.0473	10.90	-2.63
120	0.0415	11.60	-2.57
125	0.0366	12.30	-2.51
130	0.0323	13.10	-2.45
135	0.0286	13.80	-2.39
140	0.0254	14.60	-2.33
145	0.0227	15.30	-2.28
150	0.0203	16.10	-2.23

RESISTANCE/TEMPERATURE

T (°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	108,648	150,900	193,152
-50	78,055	103,935	129,815
-45	56,555	72,600	88,645
-40	41,330	51,405	61,480
-35	30,442	36,855	43,268
-30	22,600	26,745	30,890
-25	16,945	19,635	22,325
-20	12,788	14,565	16,342
-15	9,732.4	10,923	12,114
-10	7,468.7	8,271.0	9,073.3
-5	5,772.4	6,322.5	6,872.6
0	4,494.8	4,875.0	5,255.3
5	3,526.6	3,792.0	4,057.4
10	2,782.7	2,973.0	3,163.3
15	2,214.2	2,350.5	2,486.8
20	1,769.5	1,870.5	1,971.5
25	1,425.0	1,500.0	1,575.0
30	1,145.4	1,210.8	1,276.2
35	926.8	983.9	1,040.9
40	754.4	804.3	854.2
45	617.2	661.5	705.8
50	507.7	547.1	586.4
55	419.5	455.0	490.4
60	348.3	380.3	412.2
65	290.7	319.5	348.3
70	243.8	269.7	295.6
75	205.4	228.8	252.1
80	173.7	195.0	216.3
85	147.5	166.8	186.1
90	125.7	143.3	160.9
95	107.5	123.6	139.7
100	92.3	107.0	121.7
105	79.6	93.0	106.4
110	68.8	81.1	93.3
115	59.7	71.0	82.2
120	52.0	62.3	72.6
125	45.4	54.9	64.4
130	39.7	48.5	57.2
135	34.9	42.9	51.0
140	30.7	38.2	45.6
145	27.1	34.0	40.9
150	24.0	30.4	36.8

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