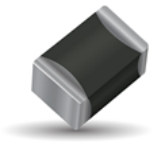
NC12MC0221JBF

(0805, 220 Ohm ±5%, 3910K, AgPdPt)

NTC SMD Thermistor with AgPdPt 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. AgPdPt termination termination for conductive adhesive assembly (not suitable for lead free soldering - use NB series).

Characteristics

Case Size	0805
Operating temperature	-55°C to +150°C
Resistance	220 Ohm
Tolerance on Resistance (25°C)	±5%
B 25/85	3910K±3%
Maximum dissipation at 25°C	0.12 W
Thermal dissipation factor	2 mW/°C
Thermal time constant	5 s
Termination	AgPdPt (for conductive adhesive)

RoHS COMPLIANT

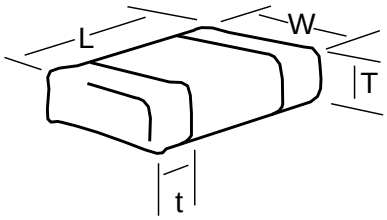
MSL 1

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)

NC — **Type**: NC = AgPdPt for conductive adhesive

12 — **Size**: 12 = 0805

MC — **Material Code**: See Datasheet

0221 — **Resistance (Ohm)**: 2 Sig. Digits + Number of Zeros

J — **Tolerance**: H = ±3%* J = ±5% K = ±10% M = ±20%

* For selected PNs

BF — **Suffix: Packaging**

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)

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

MC (B25/85 = 3910K±3%)

B25/50	B25/75	B25/85	B25/100	B Tol
3887 K	3904 K	3910 K	3917 K	±3%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	100.6	23.00	-7.56	15,935	22,132	28,329
-50	69.29	19.90	-7.27	11,448	15,244	19,040
-45	48.40	17.10	-7.00	8,294.8	10,648	13,001
-40	34.27	14.60	-6.75	6,061.7	7,539.4	9,017.1
-35	24.57	12.40	-6.50	4,464.9	5,405.4	6,345.9
-30	17.83	10.50	-6.27	3,314.6	3,922.6	4,530.6
-25	13.09	8.70	-6.05	2,485.3	2,879.8	3,274.3
-20	9.710	7.20	-5.84	1,875.6	2,136.2	2,396.8
-15	7.282	5.90	-5.64	1,427.4	1,602.0	1,776.7
-10	5.514	4.70	-5.45	1,095.4	1,213.1	1,330.7
-5	4.215	3.70	-5.27	846.6	927.3	1,008.0
0	3.250	2.80	-5.10	659.2	715.0	770.8
5	2.528	2.00	-4.93	517.2	556.2	595.1
10	1.982	1.40	-4.77	408.1	436.0	463.9
15	1.567	0.80	-4.62	324.7	344.7	364.7
20	1.247	0.40	-4.48	259.5	274.3	289.2
25	1.000	0.00	-4.34	209.0	220.0	231.0
30	0.8072	0.40	-4.21	168.0	177.6	187.2
35	0.6559	0.80	-4.08	135.9	144.3	152.7
40	0.5362	1.20	-3.96	110.7	118.0	125.3
45	0.4410	1.70	-3.85	90.5	97.0	103.5
50	0.3647	2.20	-3.74	74.5	80.2	86.0
55	0.3033	2.80	-3.63	61.5	66.7	71.9
60	0.2535	3.40	-3.53	51.1	55.8	60.5
65	0.2130	4.00	-3.43	42.6	46.9	51.1
70	0.1798	4.60	-3.34	35.8	39.6	43.4
75	0.1525	5.20	-3.25	30.1	33.6	37.0
80	0.1300	5.90	-3.16	25.5	28.6	31.7
85	0.1112	6.60	-3.08	21.6	24.5	27.3
90	0.0955	7.30	-2.99	18.4	21.0	23.6
95	0.0824	8.00	-2.92	15.8	18.1	20.5
100	0.0713	8.70	-2.84	13.5	15.7	17.8
105	0.0620	9.40	-2.77	11.7	13.6	15.6
110	0.0541	10.10	-2.70	10.1	11.9	13.7
115	0.0473	10.90	-2.63	8.8	10.4	12.1
120	0.0415	11.60	-2.57	7.6	9.1	10.7
125	0.0366	12.30	-2.51	6.7	8.0	9.4
130	0.0323	13.10	-2.45	5.8	7.1	8.4
135	0.0286	13.80	-2.39	5.1	6.3	7.5
140	0.0254	14.60	-2.33	4.5	5.6	6.7
145	0.0227	15.30	-2.28	4.0	5.0	6.0
150	0.0203	16.10	-2.23	3.5	4.5	5.4