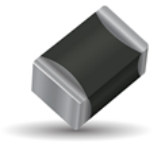
NC12MC0391MBF

(0805, 390 Ohm ±20%, 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	390 Ohm
Tolerance on Resistance (25°C)	±20%
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

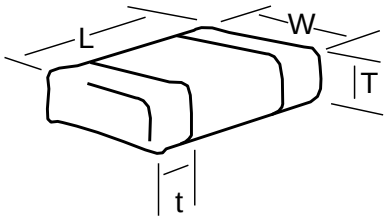
MSL 1

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	12	MC	0391	M	BF
Type	**Size**	**Material Code**	**Resistance (Ohm)**	**Tolerance**	**Suffix: Packaging**
NC = AgPdPt for conductive adhesive	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

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	22,363	39,234	56,105
-50	69.29	19.90	-7.27	16,241	27,023	37,805
-45	48.40	17.10	-7.00	11,873	18,876	25,879
-40	34.27	14.60	-6.75	8,740.9	13,365	17,990
-35	24.57	12.40	-6.50	6,477.6	9,582.3	12,687
-30	17.83	10.50	-6.27	4,832.8	6,953.7	9,074.6
-25	13.09	8.70	-6.05	3,639.9	5,105.1	6,570.3
-20	9.710	7.20	-5.84	2,756.9	3,786.9	4,816.9
-15	7.282	5.90	-5.64	2,104.4	2,840.0	3,575.5
-10	5.514	4.70	-5.45	1,619.3	2,150.5	2,681.6
-5	4.215	3.70	-5.27	1,254.3	1,643.9	2,033.4
0	3.250	2.80	-5.10	978.5	1,267.5	1,556.5
5	2.528	2.00	-4.93	769.0	985.9	1,202.8
10	1.982	1.40	-4.77	607.6	773.0	938.4
15	1.567	0.80	-4.62	484.0	611.1	738.2
20	1.247	0.40	-4.48	387.1	486.3	585.5
25	1.000	0.00	-4.34	312.0	390.0	468.0
30	0.8072	0.40	-4.21	250.6	314.8	379.0
35	0.6559	0.80	-4.08	202.6	255.8	309.0
40	0.5362	1.20	-3.96	164.8	209.1	253.5
45	0.4410	1.70	-3.85	134.7	172.0	209.3
50	0.3647	2.20	-3.74	110.7	142.2	173.8
55	0.3033	2.80	-3.63	91.3	118.3	145.3
60	0.2535	3.40	-3.53	75.7	98.9	122.0
65	0.2130	4.00	-3.43	63.1	83.1	103.0
70	0.1798	4.60	-3.34	52.9	70.1	87.4
75	0.1525	5.20	-3.25	44.5	59.5	74.5
80	0.1300	5.90	-3.16	37.6	50.7	63.8
85	0.1112	6.60	-3.08	31.8	43.4	54.9
90	0.0955	7.30	-2.99	27.1	37.3	47.4
95	0.0824	8.00	-2.92	23.1	32.1	41.1
100	0.0713	8.70	-2.84	19.8	27.8	35.8
105	0.0620	9.40	-2.77	17.1	24.2	31.3
110	0.0541	10.10	-2.70	14.7	21.1	27.4
115	0.0473	10.90	-2.63	12.7	18.5	24.2
120	0.0415	11.60	-2.57	11.1	16.2	21.3
125	0.0366	12.30	-2.51	9.7	14.3	18.9
130	0.0323	13.10	-2.45	8.4	12.6	16.8
135	0.0286	13.80	-2.39	7.4	11.2	14.9
140	0.0254	14.60	-2.33	6.5	9.9	13.4
145	0.0227	15.30	-2.28	5.7	8.8	12.0
150	0.0203	16.10	-2.23	5.0	7.9	10.7