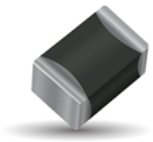
NC20M00393MBC

(1206, 39 kOhm ±20%, 3950K, 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	1206
Operating temperature	-55°C to +150°C
Resistance	39 kOhm
Tolerance on Resistance (25°C)	±20%
B 25/85	3950K±3%
Maximum dissipation at 25°C	0.24 W
Thermal dissipation factor	4 mW/°C
Thermal time constant	7 s
Termination	AgPdPt (for conductive adhesive)

RoHS COMPLIANT

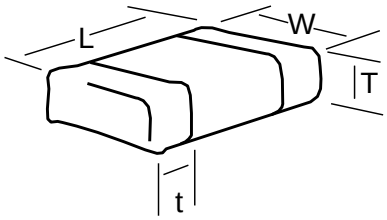
MSL 1

AEC-Q200 based qualification

Dimensions

mm (inches)

Size (EIA)	Length (L)	Width (W)	Thickness (T)	Terminal (t)
1206	3.2±0.4	1.6±0.25	1.5 max	0.2 min
	(0.126±0.016)	(0.063±0.01)	(0.059) max	(0.008) min



How to Order (Packaging options)

NC	20	M0	0393	M	BC
Type	**Size**	**Material Code**	**Resistance (Ohm)**	**Tolerance**	**Suffix: Packaging**
NC = AgPdPt for conductive adhesive	20 = 1206	See Datasheet	2 Sig. Digits + Number of Zeros	H = ±3%* J = ±5% K = ±10% M = ±20% * For selected PNs	BA = Plastic tape (180mm reel, 3,000 pcs/reel) BE = Plastic tape (180mm reel, 1,500 pcs/reel) BC = Plastic 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

M0 (B25/85 = 3950K±3%)

B25/50	B25/75	B25/85	B25/100	B Tol
3925 K	3944 K	3950 K	3958 K	±3%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	99.59	15.64	-7.42	2,499,839	3,884,018	5,268,197
-50	68.97	14.25	-7.16	1,768,659	2,690,002	3,611,346
-45	48.40	12.94	-6.91	1,265,731	1,887,409	2,509,087
-40	34.38	11.69	-6.67	915,834	1,340,794	1,765,754
-35	24.71	10.51	-6.45	669,710	963,820	1,257,930
-30	17.97	9.39	-6.23	494,737	700,707	906,676
-25	13.20	8.33	-6.02	369,068	514,948	660,828
-20	9.804	7.31	-5.82	277,918	382,358	486,799
-15	7.352	6.35	-5.63	211,176	286,722	362,268
-10	5.565	5.43	-5.45	161,858	217,043	272,229
-5	4.251	4.55	-5.28	125,094	165,788	206,481
0	3.275	3.70	-5.11	97,457	127,735	158,013
5	2.544	2.90	-4.95	76,511	99,234	121,957
10	1.992	2.13	-4.80	60,511	77,705	94,900
15	1.572	1.39	-4.65	48,197	61,311	74,425
20	1.249	0.68	-4.51	38,652	48,729	58,806
25	1.000	0.00	-4.38	31,200	39,000	46,800
30	0.8057	0.66	-4.25	24,932	31,423	37,914
35	0.6534	1.30	-4.12	20,054	25,481	30,908
40	0.5331	1.92	-4.00	16,233	20,791	25,349
45	0.4376	2.53	-3.89	13,220	17,065	20,909
50	0.3612	3.12	-3.77	10,829	14,086	17,343
55	0.2998	3.70	-3.67	8,920.2	11,691	14,462
60	0.2501	4.26	-3.57	7,387.5	9,754.1	12,121
65	0.2097	4.81	-3.47	6,149.9	8,179.4	10,209
70	0.1767	5.35	-3.37	5,145.2	6,892.3	8,639.4
75	0.1496	5.87	-3.28	4,325.4	5,834.9	7,344.5
80	0.1272	6.38	-3.19	3,653.0	4,962.0	6,271.1
85	0.1087	6.88	-3.11	3,098.8	4,238.0	5,377.2
90	0.0932	7.37	-3.03	2,640.0	3,634.7	4,629.5
95	0.0803	7.84	-2.95	2,258.4	3,129.9	4,001.3
100	0.0694	8.31	-2.87	1,939.7	2,705.6	3,471.5
105	0.0602	8.76	-2.80	1,672.4	2,347.6	3,022.8
110	0.0524	9.21	-2.73	1,447.2	2,044.3	2,641.3
115	0.0458	9.64	-2.66	1,256.9	1,786.4	2,315.8
120	0.0402	10.07	-2.60	1,095.3	1,566.2	2,037.1
125	0.0353	10.48	-2.53	957.7	1,377.6	1,797.5
130	0.0312	10.89	-2.47	840.1	1,215.5	1,591.0
135	0.0276	11.29	-2.41	739.2	1,075.8	1,412.3
140	0.0245	11.68	-2.36	652.4	954.8	1,257.3
145	0.0218	12.06	-2.30	577.4	849.9	1,122.3
150	0.0194	12.43	-2.25	512.5	758.5	1,004.5