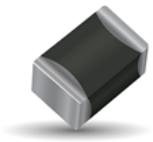
NC20N00683M--

(1206, 68 kOhm ±20%, 4080K, 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	68 kOhm
Tolerance on Resistance (25°C)	±20%
B 25/85	4080K±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

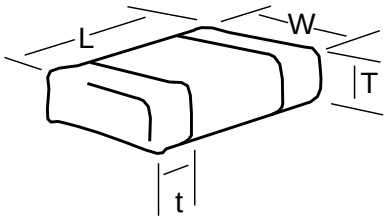
MSL 1

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	N0	0683	M	--
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

N0 (B25/85 = 4080K±3%)

B25/50	B25/75	B25/85	B25/100	B Tol
4049 K	4072 K	4080 K	4090 K	±3%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	110.1	24.01	-7.50	4,192,016	7,486,619	10,781,222
-50	75.89	20.74	-7.25	3,058,063	5,160,477	7,262,890
-45	52.97	17.83	-7.01	2,239,338	3,602,127	4,964,916
-40	37.42	15.25	-6.78	1,647,866	2,544,834	3,441,802
-35	26.75	12.95	-6.56	1,219,472	1,818,736	2,417,999
-30	19.33	10.91	-6.35	907,982	1,314,253	1,720,524
-25	14.11	9.11	-6.14	680,406	959,815	1,239,224
-20	10.41	7.52	-5.95	513,237	708,117	902,996
-15	7.758	6.12	-5.76	389,728	527,533	665,339
-10	5.834	4.90	-5.58	297,922	396,689	495,456
-5	4.426	3.83	-5.41	229,258	300,983	372,708
0	3.387	2.91	-5.24	177,579	230,339	283,098
5	2.614	2.11	-5.08	138,440	177,737	217,034
10	2.033	1.43	-4.93	108,612	138,239	167,865
15	1.593	0.86	-4.78	85,740	108,340	130,940
20	1.258	0.39	-4.64	68,095	85,531	102,967
25	1.000	0.00	-4.51	54,400	68,000	81,600
30	0.8004	0.37	-4.37	43,341	54,429	65,517
35	0.6449	0.80	-4.25	34,731	43,850	52,968
40	0.5228	1.26	-4.13	27,989	35,548	43,108
45	0.4264	1.77	-4.01	22,679	28,992	35,305
50	0.3497	2.32	-3.90	18,474	23,782	29,091
55	0.2885	2.90	-3.79	15,125	19,617	24,110
60	0.2392	3.51	-3.68	12,444	16,268	20,093
65	0.1994	4.14	-3.58	10,287	13,561	16,835
70	0.1671	4.80	-3.49	8,543.2	11,360	14,178
75	0.1406	5.48	-3.39	7,126.5	9,562.6	11,999
80	0.1189	6.17	-3.30	5,970.3	8,086.5	10,203
85	0.1010	6.88	-3.22	5,022.5	6,868.6	8,714.7
90	0.0862	7.60	-3.13	4,242.1	5,859.2	7,476.3
95	0.0738	8.33	-3.05	3,596.8	5,018.8	6,440.8
100	0.0635	9.08	-2.97	3,061.2	4,316.1	5,571.1
105	0.0548	9.83	-2.90	2,614.7	3,726.1	4,837.5
110	0.0475	10.58	-2.83	2,241.2	3,228.7	4,216.2
115	0.0413	11.35	-2.76	1,927.6	2,807.7	3,687.9
120	0.0360	12.11	-2.69	1,663.3	2,450.1	3,237.0
125	0.0315	12.89	-2.62	1,439.7	2,145.2	2,850.6
130	0.0277	13.66	-2.56	1,250.1	1,884.3	2,518.5
135	0.0244	14.43	-2.50	1,088.6	1,660.3	2,231.9
140	0.0216	15.21	-2.44	950.7	1,467.3	1,983.9
145	0.0191	15.98	-2.38	832.6	1,300.6	1,768.5
150	0.0170	16.76	-2.33	731.1	1,156.0	1,580.9