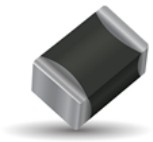
NC20K00822MBA

(1206, 8200 Ohm ±20%, 3630K, 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	8200 Ohm
Tolerance on Resistance (25°C)	±20%
B 25/85	3630K±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

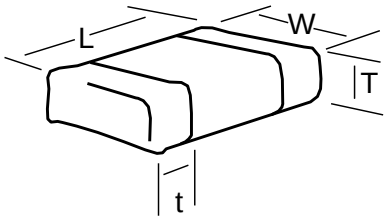
MSL 1

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	K0	0822	M	BA
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

K0 (B25/85 = 3630K±3%)

B25/50	B25/75	B25/85	B25/100	B Tol
3581 K	3618 K	3630 K	3646 K	±3%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	56.27	21.36	-6.25	270,585	461,404	652,224
-50	41.22	18.45	-6.06	208,037	338,002	467,966
-45	30.48	15.86	-5.89	160,287	249,917	339,548
-40	22.74	13.56	-5.71	123,871	186,450	249,029
-35	17.11	11.52	-5.55	96,082	140,306	184,530
-30	12.98	9.71	-5.39	74,835	106,464	138,092
-25	9.931	8.10	-5.24	58,547	81,434	104,322
-20	7.655	6.69	-5.09	46,019	62,773	79,528
-15	5.945	5.45	-4.95	36,346	48,751	61,157
-10	4.651	4.36	-4.81	28,846	38,135	47,424
-5	3.663	3.41	-4.67	23,008	30,039	37,070
0	2.905	2.58	-4.54	18,441	23,821	29,201
5	2.319	1.88	-4.42	14,854	19,014	23,173
10	1.862	1.27	-4.30	12,023	15,272	18,521
15	1.505	0.77	-4.18	9,778.4	12,341	14,904
20	1.223	0.34	-4.07	7,990.5	10,031	12,072
25	1.000	0.00	-3.96	6,560.0	8,200.0	9,840.0
30	0.8219	0.33	-3.85	5,369.6	6,739.9	8,110.2
35	0.6792	0.71	-3.75	4,415.9	5,569.2	6,722.4
40	0.5641	1.12	-3.65	3,648.3	4,625.4	5,602.5
45	0.4708	1.58	-3.55	3,027.6	3,860.6	4,693.7
50	0.3949	2.07	-3.46	2,523.4	3,237.8	3,952.2
55	0.3327	2.58	-3.37	2,112.0	2,728.0	3,344.0
60	0.2816	3.12	-3.28	1,775.0	2,308.8	2,842.6
65	0.2393	3.69	-3.20	1,497.7	1,962.5	2,427.3
70	0.2043	4.27	-3.12	1,268.6	1,675.1	2,081.7
75	0.1751	4.87	-3.04	1,078.6	1,435.6	1,792.7
80	0.1506	5.49	-2.96	920.4	1,235.2	1,550.1
85	0.1301	6.12	-2.89	788.2	1,066.8	1,345.5
90	0.1128	6.76	-2.82	677.3	924.8	1,172.3
95	0.0981	7.41	-2.75	584.0	804.5	1,025.0
100	0.0856	8.07	-2.68	505.1	702.3	899.4
105	0.0750	8.74	-2.61	438.3	615.1	791.9
110	0.0659	9.42	-2.55	381.5	540.5	699.4
115	0.0581	10.09	-2.49	333.0	476.4	619.7
120	0.0514	10.78	-2.43	291.5	421.2	550.8
125	0.0455	11.46	-2.37	255.9	373.4	490.9
130	0.0405	12.15	-2.32	225.3	332.0	438.8
135	0.0361	12.84	-2.26	198.8	296.1	393.3
140	0.0323	13.53	-2.21	175.9	264.7	353.4
145	0.0289	14.22	-2.16	156.1	237.3	318.4
150	0.0260	14.91	-2.11	138.8	213.2	287.6