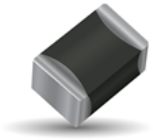
NB20Q00394JBE

(1206, 390 kOhm ±5%, 4300K, Ni/100% Sn)

NTC SMD Thermistor with Ni/Sn 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. Ni barrier/100% Sn plated termination for lead free soldering.

Characteristics

Case Size	1206
Operating temperature	-55°C to +150°C
Resistance	390 kOhm
Tolerance on Resistance (25°C)	±5%
B 25/85	4300K±3%
Maximum dissipation at 25°C	0.24 W
Thermal dissipation factor	4 mW/°C
Thermal time constant	7 s
Termination	Ni barrier/100%Sn (for Pb free soldering)

RoHS COMPLIANT

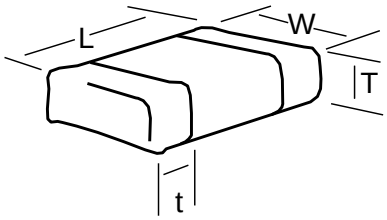
MSL 1
Pb Free
260°C

AEC-Q200
based qualification

Dimensions WWWW

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)

NB	20	Q0	0394	J	BE
Type	**Size**	**Material Code**	**Resistance (Ohm)**	**Tolerance**	**Suffix: Packaging**
NB = Ni/Sn Term for lead free soldering	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

Q0 (B25/85 = 4300K±3%)

B25/50	B25/75	B25/85	B25/100	B Tol
4221 K	4281 K	4300 K	4325 K	±3%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	98.04	25.30	-6.87	26,650,875	38,236,781	49,822,686
-50	69.53	21.86	-6.70	19,832,411	27,115,139	34,397,867
-45	49.73	18.79	-6.53	14,780,160	19,395,014	24,009,868
-40	35.87	16.07	-6.37	11,042,177	13,989,543	16,936,909
-35	26.08	13.65	-6.22	8,275,962	10,172,952	12,069,942
-30	19.12	11.50	-6.07	6,225,927	7,456,275	8,686,624
-25	14.12	9.60	-5.92	4,703,101	5,507,258	6,311,415
-20	10.51	7.93	-5.78	3,568,512	4,098,260	4,628,007
-15	7.877	6.45	-5.64	2,720,235	3,072,065	3,423,894
-10	5.947	5.16	-5.50	2,083,576	2,319,253	2,554,930
-5	4.521	4.04	-5.37	1,603,771	1,763,096	1,922,421
0	3.460	3.06	-5.24	1,240,613	1,349,398	1,458,183
5	2.666	2.22	-5.11	964,513	1,039,605	1,114,698
10	2.067	1.51	-4.99	753,641	806,106	858,571
15	1.613	0.91	-4.87	591,839	628,989	666,139
20	1.266	0.41	-4.75	467,107	493,805	520,503
25	1.000	0.00	-4.63	370,500	390,000	409,500
30	0.7944	0.39	-4.52	293,113	309,819	326,524
35	0.6347	0.84	-4.41	233,076	247,527	261,977
40	0.5099	1.33	-4.30	186,267	198,860	211,452
45	0.4119	1.87	-4.20	149,593	160,628	171,664
50	0.3344	2.45	-4.09	120,721	130,433	140,146
55	0.2730	3.06	-3.99	97,883	106,461	115,038
60	0.2239	3.70	-3.90	79,734	87,330	94,927
65	0.1846	4.37	-3.80	65,246	71,988	78,731
70	0.1529	5.06	-3.71	53,628	59,625	65,621
75	0.1272	5.77	-3.62	44,270	49,613	54,957
80	0.1063	6.50	-3.53	36,700	41,469	46,239
85	0.0893	7.25	-3.44	30,550	34,815	39,079
90	0.0753	8.01	-3.36	25,534	29,353	33,172
95	0.0637	8.78	-3.28	21,426	24,851	28,276
100	0.0542	9.57	-3.20	18,048	21,125	24,201
105	0.0462	10.36	-3.13	15,259	18,028	20,796
110	0.0396	11.15	-3.05	12,949	15,444	17,939
115	0.0340	11.96	-2.98	11,027	13,279	15,531
120	0.0294	12.77	-2.91	9,423.2	11,459	13,495
125	0.0254	13.58	-2.84	8,079.8	9,923.6	11,767
130	0.0221	14.39	-2.77	6,950.6	8,623.0	10,295
135	0.0193	15.21	-2.71	5,998.3	7,517.7	9,037.0
140	0.0169	16.03	-2.64	5,192.6	6,575.2	7,957.7
145	0.0148	16.84	-2.58	4,508.7	5,768.8	7,028.9
150	0.0130	17.66	-2.52	3,926.4	5,076.7	6,227.1