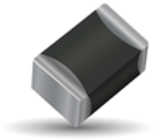
NB20Q00564MBC

(1206, 560 kOhm ±20%, 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	560 kOhm
Tolerance on Resistance (25°C)	±20%
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

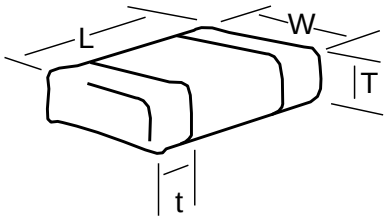
MSL 1
Pb Free
260°C

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 — **Type**
NB = Ni/Sn Term for lead free soldering

20 — **Size**
20 = 1206

Q0 — **Material Code**
See Datasheet

0564 — **Resistance (Ohm)**
2 Sig. Digits + Number of Zeros

M — **Tolerance**
H = ±3%*
J = ±5%
K = ±10%
M = ±20%

* For selected PNs

BC — **Suffix: Packaging**
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	30,032,308	54,904,095	79,775,882
-50	69.53	21.86	-6.70	22,637,124	38,934,559	55,231,993
-45	49.73	18.79	-6.53	17,045,406	27,849,251	38,653,095
-40	35.87	16.07	-6.37	12,842,301	20,087,549	27,332,796
-35	26.08	13.65	-6.22	9,692,336	14,607,316	19,522,296
-30	19.12	11.50	-6.07	7,333,826	10,706,447	14,079,068
-25	14.12	9.60	-5.92	5,566,992	7,907,858	10,248,723
-20	10.51	7.93	-5.78	4,241,316	5,884,680	7,528,045
-15	7.877	6.45	-5.64	3,244,303	4,411,170	5,578,037
-10	5.947	5.16	-5.50	2,492,269	3,330,209	4,168,149
-5	4.521	4.04	-5.37	1,923,107	2,531,625	3,140,143
0	3.460	3.06	-5.24	1,490,753	1,937,597	2,384,440
5	2.666	2.22	-5.11	1,161,026	1,492,766	1,824,507
10	2.067	1.51	-4.99	908,528	1,157,485	1,406,442
15	1.613	0.91	-4.87	714,346	903,164	1,091,982
20	1.266	0.41	-4.75	564,360	709,053	853,746
25	1.000	0.00	-4.63	448,000	560,000	672,000
30	0.7944	0.39	-4.52	354,151	444,868	535,585
35	0.6347	0.84	-4.41	281,360	355,423	429,486
40	0.5099	1.33	-4.30	224,629	285,542	346,455
45	0.4119	1.87	-4.20	180,203	230,646	281,088
50	0.3344	2.45	-4.09	145,249	187,289	229,329
55	0.2730	3.06	-3.99	117,620	152,867	188,113
60	0.2239	3.70	-3.90	95,681	125,398	155,114
65	0.1846	4.37	-3.80	78,181	103,368	128,555
70	0.1529	5.06	-3.71	64,162	85,615	107,068
75	0.1272	5.77	-3.62	52,881	71,240	89,598
80	0.1063	6.50	-3.53	43,765	59,546	75,326
85	0.0893	7.25	-3.44	36,369	49,990	63,612
90	0.0753	8.01	-3.36	30,342	42,148	53,953
95	0.0637	8.78	-3.28	25,413	35,683	45,954
100	0.0542	9.57	-3.20	21,365	30,333	39,301
105	0.0462	10.36	-3.13	18,028	25,886	33,744
110	0.0396	11.15	-3.05	15,267	22,175	29,084
115	0.0340	11.96	-2.98	12,974	19,068	25,161
120	0.0294	12.77	-2.91	11,063	16,454	21,846
125	0.0254	13.58	-2.84	9,464.4	14,249	19,034
130	0.0221	14.39	-2.77	8,123.1	12,382	16,640
135	0.0193	15.21	-2.71	6,993.8	10,795	14,595
140	0.0169	16.03	-2.64	6,039.9	9,441.3	12,843
145	0.0148	16.84	-2.58	5,231.5	8,283.4	11,335
150	0.0130	17.66	-2.52	4,544.4	7,289.7	10,035