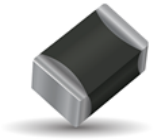
NB20Q00564KBE

(1206, 560 kOhm ±10%, 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)	±10%
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

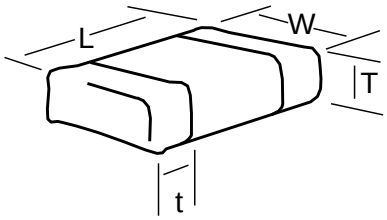
MSL 1
Pb Free
260°C

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	0564	K	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	35,522,718	54,904,095	74,285,473
-50	69.53	21.86	-6.70	26,530,580	38,934,559	51,338,538
-45	49.73	18.79	-6.53	19,830,331	27,849,251	35,868,170
-40	35.87	16.07	-6.37	14,851,056	20,087,549	25,324,041
-35	26.08	13.65	-6.22	11,153,067	14,607,316	18,061,565
-30	19.12	11.50	-6.07	8,404,471	10,706,447	13,008,423
-25	14.12	9.60	-5.92	6,357,778	7,907,858	9,457,937
-20	10.51	7.93	-5.78	4,829,784	5,884,680	6,939,577
-15	7.877	6.45	-5.64	3,685,420	4,411,170	5,136,920
-10	5.947	5.16	-5.50	2,825,290	3,330,209	3,835,128
-5	4.521	4.04	-5.37	2,176,270	2,531,625	2,886,981
0	3.460	3.06	-5.24	1,684,513	1,937,597	2,190,681
5	2.666	2.22	-5.11	1,310,303	1,492,766	1,675,230
10	2.067	1.51	-4.99	1,024,277	1,157,485	1,290,694
15	1.613	0.91	-4.87	804,662	903,164	1,001,665
20	1.266	0.41	-4.75	635,265	709,053	782,841
25	1.000	0.00	-4.63	504,000	560,000	616,000
30	0.7944	0.39	-4.52	398,637	444,868	491,098
35	0.6347	0.84	-4.41	316,902	355,423	393,944
40	0.5099	1.33	-4.30	253,183	285,542	317,901
45	0.4119	1.87	-4.20	203,267	230,646	258,024
50	0.3344	2.45	-4.09	163,978	187,289	210,600
55	0.2730	3.06	-3.99	132,907	152,867	172,826
60	0.2239	3.70	-3.90	108,221	125,398	142,575
65	0.1846	4.37	-3.80	88,518	103,368	118,218
70	0.1529	5.06	-3.71	72,723	85,615	98,506
75	0.1272	5.77	-3.62	60,005	71,240	82,474
80	0.1063	6.50	-3.53	49,720	59,546	69,372
85	0.0893	7.25	-3.44	41,368	49,990	58,613
90	0.0753	8.01	-3.36	34,557	42,148	49,738
95	0.0637	8.78	-3.28	28,981	35,683	42,386
100	0.0542	9.57	-3.20	24,398	30,333	36,267
105	0.0462	10.36	-3.13	20,616	25,886	31,155
110	0.0396	11.15	-3.05	17,484	22,175	26,867
115	0.0340	11.96	-2.98	14,880	19,068	23,255
120	0.0294	12.77	-2.91	12,708	16,454	20,201
125	0.0254	13.58	-2.84	10,889	14,249	17,609
130	0.0221	14.39	-2.77	9,361.3	12,382	15,402
135	0.0193	15.21	-2.71	8,073.3	10,795	13,516
140	0.0169	16.03	-2.64	6,984.0	9,441.3	11,899
145	0.0148	16.84	-2.58	6,059.8	8,283.4	10,507
150	0.0130	17.66	-2.52	5,273.4	7,289.7	9,305.9