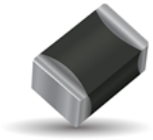
NB20Q00334K--

(1206, 330 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	330 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

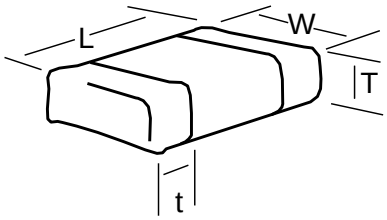
MSL 1
Pb Free
260°C

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	0334	K	--
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	20,933,030	32,354,199	43,775,368
-50	69.53	21.86	-6.70	15,634,092	22,943,579	30,253,067
-45	49.73	18.79	-6.53	11,685,731	16,411,166	21,136,600
-40	35.87	16.07	-6.37	8,751,515	11,837,306	14,923,096
-35	26.08	13.65	-6.22	6,572,343	8,607,883	10,643,422
-30	19.12	11.50	-6.07	4,952,634	6,309,156	7,665,678
-25	14.12	9.60	-5.92	3,746,548	4,659,988	5,573,427
-20	10.51	7.93	-5.78	2,846,123	3,467,758	4,089,394
-15	7.877	6.45	-5.64	2,171,765	2,599,439	3,027,113
-10	5.947	5.16	-5.50	1,664,903	1,962,445	2,259,986
-5	4.521	4.04	-5.37	1,282,445	1,491,851	1,701,256
0	3.460	3.06	-5.24	992,659	1,141,798	1,290,937
5	2.666	2.22	-5.11	772,143	879,666	987,189
10	2.067	1.51	-4.99	603,592	682,089	760,587
15	1.613	0.91	-4.87	474,176	532,221	590,267
20	1.266	0.41	-4.75	374,353	417,835	461,317
25	1.000	0.00	-4.63	297,000	330,000	363,000
30	0.7944	0.39	-4.52	234,911	262,154	289,397
35	0.6347	0.84	-4.41	186,746	209,446	232,145
40	0.5099	1.33	-4.30	149,197	168,266	187,335
45	0.4119	1.87	-4.20	119,783	135,916	152,050
50	0.3344	2.45	-4.09	96,630	110,367	124,104
55	0.2730	3.06	-3.99	78,320	90,082	101,844
60	0.2239	3.70	-3.90	63,773	73,895	84,017
65	0.1846	4.37	-3.80	52,162	60,913	69,664
70	0.1529	5.06	-3.71	42,855	50,452	58,048
75	0.1272	5.77	-3.62	35,360	41,980	48,601
80	0.1063	6.50	-3.53	29,299	35,089	40,880
85	0.0893	7.25	-3.44	24,377	29,459	34,540
90	0.0753	8.01	-3.36	20,364	24,837	29,310
95	0.0637	8.78	-3.28	17,078	21,028	24,977
100	0.0542	9.57	-3.20	14,378	17,875	21,372
105	0.0462	10.36	-3.13	12,149	15,254	18,359
110	0.0396	11.15	-3.05	10,303	13,068	15,832
115	0.0340	11.96	-2.98	8,768.8	11,236	13,704
120	0.0294	12.77	-2.91	7,488.7	9,696.3	11,904
125	0.0254	13.58	-2.84	6,416.9	8,396.9	10,377
130	0.0221	14.39	-2.77	5,516.5	7,296.4	9,076.3
135	0.0193	15.21	-2.71	4,757.5	6,361.1	7,964.8
140	0.0169	16.03	-2.64	4,115.6	5,563.6	7,011.6
145	0.0148	16.84	-2.58	3,571.0	4,881.3	6,191.6
150	0.0130	17.66	-2.52	3,107.5	4,295.7	5,483.9