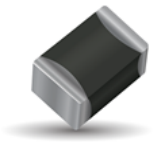
NC20Q00274M--

(1206, 270 kOhm ±20%, 4300K, 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	270 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	AgPdPt (for conductive adhesive)

RoHS COMPLIANT

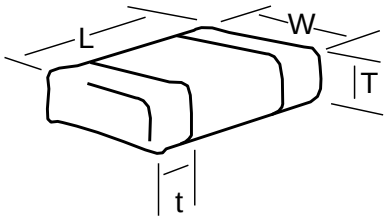
MSL 1

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	Q0	0274	M	--
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

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	14,479,863	26,471,617	38,463,372
-50	69.53	21.86	-6.70	10,914,328	18,772,019	26,629,711
-45	49.73	18.79	-6.53	8,218,321	13,427,317	18,636,314
-40	35.87	16.07	-6.37	6,191,824	9,685,068	13,178,312
-35	26.08	13.65	-6.22	4,673,090	7,042,813	9,412,536
-30	19.12	11.50	-6.07	3,535,952	5,162,037	6,788,122
-25	14.12	9.60	-5.92	2,684,085	3,812,717	4,941,349
-20	10.51	7.93	-5.78	2,044,920	2,837,257	3,629,593
-15	7.877	6.45	-5.64	1,564,218	2,126,814	2,689,411
-10	5.947	5.16	-5.50	1,201,630	1,605,637	2,009,643
-5	4.521	4.04	-5.37	927,212	1,220,605	1,513,998
0	3.460	3.06	-5.24	718,756	934,198	1,149,641
5	2.666	2.22	-5.11	559,781	719,727	879,673
10	2.067	1.51	-4.99	438,040	558,073	678,106
15	1.613	0.91	-4.87	344,417	435,454	526,491
20	1.266	0.41	-4.75	272,102	341,865	411,628
25	1.000	0.00	-4.63	216,000	270,000	324,000
30	0.7944	0.39	-4.52	170,751	214,490	258,228
35	0.6347	0.84	-4.41	135,656	171,365	207,073
40	0.5099	1.33	-4.30	108,303	137,672	167,041
45	0.4119	1.87	-4.20	86,883	111,204	135,525
50	0.3344	2.45	-4.09	70,031	90,300	110,569
55	0.2730	3.06	-3.99	56,710	73,704	90,697
60	0.2239	3.70	-3.90	46,132	60,460	74,787
65	0.1846	4.37	-3.80	37,695	49,838	61,982
70	0.1529	5.06	-3.71	30,935	41,279	51,622
75	0.1272	5.77	-3.62	25,496	34,348	43,199
80	0.1063	6.50	-3.53	21,101	28,710	36,318
85	0.0893	7.25	-3.44	17,535	24,102	30,670
90	0.0753	8.01	-3.36	14,629	20,321	26,013
95	0.0637	8.78	-3.28	12,253	17,205	22,156
100	0.0542	9.57	-3.20	10,301	14,625	18,949
105	0.0462	10.36	-3.13	8,692.0	12,481	16,269
110	0.0396	11.15	-3.05	7,360.7	10,692	14,023
115	0.0340	11.96	-2.98	6,255.2	9,193.3	12,131
120	0.0294	12.77	-2.91	5,333.8	7,933.4	10,533
125	0.0254	13.58	-2.84	4,563.2	6,870.2	9,177.2
130	0.0221	14.39	-2.77	3,916.5	5,969.8	8,023.0
135	0.0193	15.21	-2.71	3,372.0	5,204.5	7,037.1
140	0.0169	16.03	-2.64	2,912.1	4,552.0	6,192.0
145	0.0148	16.84	-2.58	2,522.3	3,993.8	5,465.3
150	0.0130	17.66	-2.52	2,191.0	3,514.7	4,838.3