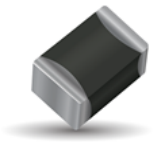
NC21Q00474MBB

(0603, 470 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	0603
Operating temperature	-55°C to +150°C
Resistance	470 kOhm
Tolerance on Resistance (25°C)	±20%
B 25/85	4300K±3%
Maximum dissipation at 25°C	0.07 W
Thermal dissipation factor	1 mW/°C
Thermal time constant	4 s
Termination	AgPdPt (for conductive adhesive)

RoHS COMPLIANT

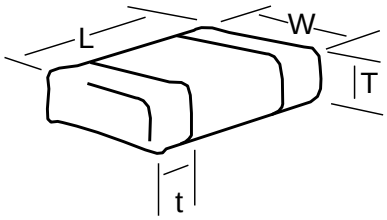
MSL 1

AEC-Q200 based qualification

Dimensions

mm (inches)

Size (EIA)	Length (L)	Width (W)	Thickness (T)	Terminal (t)
0603	1.6±0.2	0.8±0.2	1.0 max	0.2 min
	(0.063±0.008)	(0.031±0.008)	(0.039) max	(0.008) min



How to Order (Packaging options)

NC	21	Q0	0474	M	BB
Type	**Size**	**Material Code**	**Resistance (Ohm)**	**Tolerance**	**Suffix: Packaging**
NC = AgPdPt for conductive adhesive	21 = 0603	See Datasheet	2 Sig. Digits + Number of Zeros	H = ±3%* J = ±5% K = ±10% M = ±20%	BB = Cardboard tape (180mm reel, 4,000 pcs/reel) BF = Cardboard tape (180mm reel, 2,000 pcs/reel) BD = Cardboard tape (330mm reel, 10,000 pcs/reel) -- = Bulk (5000 pcs/bag)

* For selected PNs

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	25,205,687	46,080,223	66,954,758
-50	69.53	21.86	-6.70	18,999,015	32,677,219	46,355,423
-45	49.73	18.79	-6.53	14,305,966	23,373,478	32,440,991
-40	35.87	16.07	-6.37	10,778,360	16,859,193	22,940,025
-35	26.08	13.65	-6.22	8,134,639	12,259,712	16,384,784
-30	19.12	11.50	-6.07	6,155,175	8,985,768	11,816,360
-25	14.12	9.60	-5.92	4,672,297	6,636,952	8,601,607
-20	10.51	7.93	-5.78	3,559,676	4,938,928	6,318,181
-15	7.877	6.45	-5.64	2,722,897	3,702,232	4,681,566
-10	5.947	5.16	-5.50	2,091,726	2,794,997	3,498,268
-5	4.521	4.04	-5.37	1,614,036	2,124,757	2,635,477
0	3.460	3.06	-5.24	1,251,168	1,626,197	2,001,227
5	2.666	2.22	-5.11	974,433	1,252,858	1,531,282
10	2.067	1.51	-4.99	762,515	971,461	1,180,407
15	1.613	0.91	-4.87	599,540	758,012	916,485
20	1.266	0.41	-4.75	473,659	595,098	716,537
25	1.000	0.00	-4.63	376,000	470,000	564,000
30	0.7944	0.39	-4.52	297,233	373,371	449,509
35	0.6347	0.84	-4.41	236,141	298,301	360,461
40	0.5099	1.33	-4.30	188,528	239,651	290,775
45	0.4119	1.87	-4.20	151,242	193,578	235,914
50	0.3344	2.45	-4.09	121,905	157,189	192,472
55	0.2730	3.06	-3.99	98,717	128,299	157,881
60	0.2239	3.70	-3.90	80,304	105,244	130,185
65	0.1846	4.37	-3.80	65,616	86,755	107,894
70	0.1529	5.06	-3.71	53,850	71,855	89,860
75	0.1272	5.77	-3.62	44,382	59,790	75,199
80	0.1063	6.50	-3.53	36,732	49,976	63,220
85	0.0893	7.25	-3.44	30,524	41,956	53,389
90	0.0753	8.01	-3.36	25,466	35,374	45,282
95	0.0637	8.78	-3.28	21,329	29,949	38,568
100	0.0542	9.57	-3.20	17,931	25,458	32,985
105	0.0462	10.36	-3.13	15,131	21,726	28,321
110	0.0396	11.15	-3.05	12,813	18,612	24,410
115	0.0340	11.96	-2.98	10,889	16,003	21,118
120	0.0294	12.77	-2.91	9,285	13,810	18,335
125	0.0254	13.58	-2.84	7,943	11,959	15,975
130	0.0221	14.39	-2.77	6,818	10,392	13,966
135	0.0193	15.21	-2.71	5,870	9,060	12,250
140	0.0169	16.03	-2.64	5,069	7,924	10,779
145	0.0148	16.84	-2.58	4,391	6,952	9,514
150	0.0130	17.66	-2.52	3,814	6,118	8,422