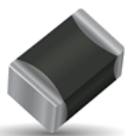


NTC SMD Thermistor with AgPdPt termination

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	47 kOhm
Tolerance on Resistance (25°C)	$\pm 10\%$
B 25/85	3950K $\pm 3\%$
Maximum dissipation at 25°C	0.24 W
Thermal dissipation factor	4 mW/°C
Thermal time constant	7 s
Termination	AgPdPt (for conductive adhesive)



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	M0	0473	K	BE
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 = $\pm 3\%*$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	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)
				* For selected PNs	

NOTICE: Specifications are subject to change without notice. All statements, information and data given herein are believed 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

M0 (B25/85 = 3950K $\pm 3\%$)

T (°C)	R(T) / R25	TF (%)	α (%/°C)
-55	99.59	15.64	-7.42
-50	68.97	14.25	-7.16
-45	48.40	12.94	-6.91
-40	34.38	11.69	-6.67
-35	24.71	10.51	-6.45
-30	17.97	9.39	-6.23
-25	13.20	8.33	-6.02
-20	9.804	7.31	-5.82
-15	7.352	6.35	-5.63
-10	5.565	5.43	-5.45
-5	4.251	4.55	-5.28
0	3.275	3.70	-5.11
5	2.544	2.90	-4.95
10	1.992	2.13	-4.80
15	1.572	1.39	-4.65
20	1.249	0.68	-4.51
25	1.000	0.00	-4.38
30	0.8057	0.66	-4.25
35	0.6534	1.30	-4.12
40	0.5331	1.92	-4.00
45	0.4376	2.53	-3.89
50	0.3612	3.12	-3.77
55	0.2998	3.70	-3.67
60	0.2501	4.26	-3.57
65	0.2097	4.81	-3.47
70	0.1767	5.35	-3.37
75	0.1496	5.87	-3.28
80	0.1272	6.38	-3.19
85	0.1087	6.88	-3.11
90	0.0932	7.37	-3.03
95	0.0803	7.84	-2.95
100	0.0694	8.31	-2.87
105	0.0602	8.76	-2.80
110	0.0524	9.21	-2.73
115	0.0458	9.64	-2.66
120	0.0402	10.07	-2.60
125	0.0353	10.48	-2.53
130	0.0312	10.89	-2.47
135	0.0276	11.29	-2.41
140	0.0245	11.68	-2.36
145	0.0218	12.06	-2.30
150	0.0194	12.43	-2.25

B25/50	B25/75	B25/85	B25/100	B Tol
3925 K	3944 K	3950 K	3958 K	$\pm 3\%$

R Min (Ω)	R Nom (Ω)	R Max (Ω)
3,480,701	4,680,740	5,880,779
2,455,641	3,241,798	4,027,955
1,752,825	2,274,570	2,796,314
1,265,280	1,615,829	1,966,377
923,240	1,161,527	1,399,814
680,666	844,441	1,008,217
506,832	620,579	734,325
381,006	460,791	540,576
289,047	345,536	402,025
221,216	261,565	301,914
170,734	199,796	228,857
132,842	153,937	175,032
104,164	119,590	135,015
82,288	93,645	105,002
65,473	73,888	82,303
52,453	58,725	64,996
42,300	47,000	51,700
33,833	37,869	41,905
27,239	30,708	34,178
22,069	25,056	28,043
17,988	20,565	23,142
14,748	16,975	19,203
12,159	14,089	16,019
10,078	11,755	13,432
8,397.2	9,857.2	11,317
7,031.3	8,306.1	9,580.9
5,915.8	7,031.8	8,147.9
5,000.3	5,979.9	6,959.5
4,245.2	5,107.3	5,969.5
3,619.6	4,380.3	5,141.1
3,098.9	3,771.9	4,444.9
2,663.7	3,260.6	3,857.6
2,298.3	2,829.2	3,360.0
1,990.5	2,463.6	2,936.8
1,730.0	2,152.8	2,575.6
1,508.7	1,887.5	2,266.2
1,320.2	1,660.2	2,000.2
1,158.9	1,464.9	1,770.9
1,020.5	1,296.4	1,572.4
901.3	1,150.7	1,400.1
798.3	1,024.2	1,250.1
709.1	914.1	1,119.2