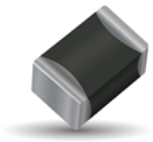
NC20P00154MBA

(1206, 150 kOhm ±20%, 4220K, 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	150 kOhm
Tolerance on Resistance (25°C)	±20%
B 25/85	4220K±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

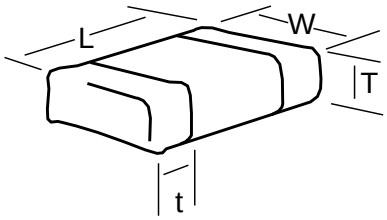
MSL 1

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	P0	0154	M	BA
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)

Material Table

P0 (B25/85 = 4220K±3%)

B25/50	B25/75	B25/85	B25/100	B Tol
4181 K	4211 K	4220 K	4232 K	±3%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	121.4	24.83	-7.56	10,044,862	18,207,211	26,369,559
-50	83.35	21.45	-7.32	7,319,653	12,502,049	17,684,445
-45	57.92	18.44	-7.09	5,348,284	8,688,599	12,028,914
-40	40.72	15.77	-6.87	3,923,582	6,108,624	8,293,665
-35	28.95	13.39	-6.66	2,892,551	4,342,765	5,792,980
-30	20.80	11.29	-6.45	2,144,225	3,120,559	4,096,893
-25	15.10	9.42	-6.26	1,598,913	2,265,499	2,932,084
-20	11.07	7.78	-6.07	1,199,651	1,661,081	2,122,510
-15	8.197	6.33	-5.89	905,787	1,229,564	1,553,340
-10	6.123	5.07	-5.71	688,286	918,521	1,148,757
-5	4.615	3.96	-5.54	526,368	692,240	858,112
0	3.508	3.00	-5.38	405,111	526,152	647,192
5	2.688	2.18	-5.22	313,759	403,195	492,631
10	2.076	1.48	-5.07	244,521	311,415	378,308
15	1.616	0.89	-4.92	191,730	242,357	292,984
20	1.267	0.40	-4.78	151,239	189,996	228,754
25	1.000	0.00	-4.64	120,000	150,000	180,000
30	0.7949	0.38	-4.51	94,925	119,229	143,534
35	0.6359	0.82	-4.38	75,529	95,392	115,255
40	0.5120	1.31	-4.26	60,438	76,803	93,169
45	0.4148	1.84	-4.14	48,629	62,214	75,798
50	0.3379	2.40	-4.03	39,336	50,691	62,047
55	0.2769	3.00	-3.92	31,983	41,537	51,090
60	0.2281	3.63	-3.81	26,135	34,222	42,308
65	0.1890	4.28	-3.71	21,460	28,343	35,226
70	0.1573	4.96	-3.61	17,704	23,594	29,483
75	0.1316	5.66	-3.52	14,671	19,736	24,801
80	0.1106	6.38	-3.42	12,212	16,588	20,964
85	0.0934	7.11	-3.34	10,208	14,005	17,802
90	0.0792	7.86	-3.25	8,567.8	11,877	15,186
95	0.0674	8.62	-3.17	7,219.9	10,115	13,009
100	0.0577	9.39	-3.09	6,107.6	8,649.4	11,191
105	0.0495	10.16	-3.01	5,185.8	7,425.7	9,665.6
110	0.0427	10.95	-2.93	4,419.1	6,399.7	8,380.2
115	0.0369	11.74	-2.86	3,778.9	5,535.8	7,292.7
120	0.0320	12.53	-2.79	3,242.4	4,805.7	6,369.0
125	0.0279	13.33	-2.72	2,791.1	4,186.3	5,581.5
130	0.0244	14.13	-2.66	2,410.3	3,659.0	4,907.7
135	0.0214	14.93	-2.59	2,087.8	3,208.4	4,329.0
140	0.0188	15.73	-2.53	1,813.8	2,822.1	3,830.5
145	0.0166	16.53	-2.47	1,580.3	2,489.9	3,399.5
150	0.0147	17.33	-2.42	1,380.7	2,203.2	3,025.7