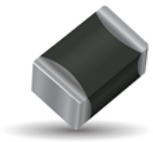
NC20P00154K--

(1206, 150 kOhm ±10%, 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)	±10%
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

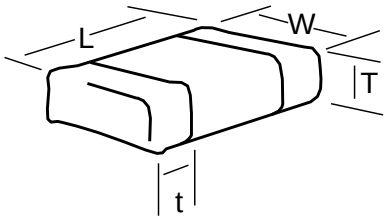
MSL 1

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	K	--
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

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	11,865,583	18,207,211	24,548,838
-50	83.35	21.45	-7.32	8,569,858	12,502,049	16,434,240
-45	57.92	18.44	-7.09	6,217,144	8,688,599	11,160,054
-40	40.72	15.77	-6.87	4,534,445	6,108,624	7,682,802
-35	28.95	13.39	-6.66	3,326,827	4,342,765	5,358,703
-30	20.80	11.29	-6.45	2,456,281	3,120,559	3,784,837
-25	15.10	9.42	-6.26	1,825,463	2,265,499	2,705,534
-20	11.07	7.78	-6.07	1,365,759	1,661,081	1,956,402
-15	8.197	6.33	-5.89	1,028,743	1,229,564	1,430,384
-10	6.123	5.07	-5.71	780,138	918,521	1,056,904
-5	4.615	3.96	-5.54	595,592	692,240	788,888
0	3.508	3.00	-5.38	457,726	526,152	594,577
5	2.688	2.18	-5.22	354,079	403,195	452,312
10	2.076	1.48	-5.07	275,663	311,415	347,166
15	1.616	0.89	-4.92	215,966	242,357	268,748
20	1.267	0.40	-4.78	170,239	189,996	209,754
25	1.000	0.00	-4.64	135,000	150,000	165,000
30	0.7949	0.38	-4.51	106,848	119,229	131,611
35	0.6359	0.82	-4.38	85,069	95,392	105,716
40	0.5120	1.31	-4.26	68,119	76,803	85,488
45	0.4148	1.84	-4.14	54,850	62,214	69,577
50	0.3379	2.40	-4.03	44,405	50,691	56,978
55	0.2769	3.00	-3.92	36,137	41,537	46,937
60	0.2281	3.63	-3.81	29,557	34,222	38,886
65	0.1890	4.28	-3.71	24,294	28,343	32,392
70	0.1573	4.96	-3.61	20,063	23,594	27,124
75	0.1316	5.66	-3.52	16,645	19,736	22,828
80	0.1106	6.38	-3.42	13,871	16,588	19,305
85	0.0934	7.11	-3.34	11,608	14,005	16,402
90	0.0792	7.86	-3.25	9,755.5	11,877	13,998
95	0.0674	8.62	-3.17	8,231.4	10,115	11,998
100	0.0577	9.39	-3.09	6,972.5	8,649.4	10,326
105	0.0495	10.16	-3.01	5,928.4	7,425.7	8,923.1
110	0.0427	10.95	-2.93	5,059.1	6,399.7	7,740.2
115	0.0369	11.74	-2.86	4,332.5	5,535.8	6,739.1
120	0.0320	12.53	-2.79	3,723.0	4,805.7	5,888.4
125	0.0279	13.33	-2.72	3,209.8	4,186.3	5,162.9
130	0.0244	14.13	-2.66	2,776.2	3,659.0	4,541.8
135	0.0214	14.93	-2.59	2,408.6	3,208.4	4,008.2
140	0.0188	15.73	-2.53	2,096.0	2,822.1	3,548.3
145	0.0166	16.53	-2.47	1,829.3	2,489.9	3,150.5
150	0.0147	17.33	-2.42	1,601.0	2,203.2	2,805.4