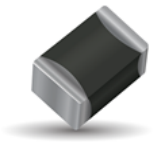
NC12L00183J--

(0805, 18 kOhm ±5%, 3790K, 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	0805
Operating temperature	-55°C to +150°C
Resistance	18 kOhm
Tolerance on Resistance (25°C)	±5%
B 25/85	3790K±3%
Maximum dissipation at 25°C	0.12 W
Thermal dissipation factor	2 mW/°C
Thermal time constant	5 s
Termination	AgPdPt (for conductive adhesive)

RoHS COMPLIANT

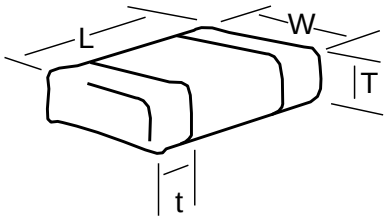
MSL 1

AEC-Q200 based qualification

Dimensions

mm (inches)

Size (EIA)	Length (L)	Width (W)	Thickness (T)	Terminal (t)
0805	2.0±0.3	1.25±0.2	1.3 max	0.2 min
	(0.079±0.012)	(0.049±0.008)	(0.051) max	(0.008) min



How to Order (Packaging options)

NC	12	L0	0183	J	--
Type	**Size**	**Material Code**	**Resistance (Ohm)**	**Tolerance**	**Suffix: Packaging**
NC = AgPdPt for conductive adhesive	12 = 0805	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

L0 (B25/85 = 3790K±3%)

B25/50	B25/75	B25/85	B25/100	B Tol
3765 K	3784 K	3790 K	3798 K	±3%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	82.54	22.30	-7.12	1,080,162	1,485,774	1,891,387
-50	58.03	19.27	-6.87	791,034	1,044,491	1,297,948
-45	41.31	16.57	-6.63	583,161	743,496	903,832
-40	29.75	14.16	-6.40	432,949	535,581	638,212
-35	21.68	12.03	-6.18	323,768	390,217	456,666
-30	15.97	10.14	-5.98	243,903	287,407	330,912
-25	11.88	8.46	-5.78	185,094	213,890	242,685
-20	8.931	6.99	-5.59	141,492	160,761	180,030
-15	6.777	5.69	-5.40	108,942	121,978	135,014
-10	5.188	4.55	-5.23	84,473	93,392	102,311
-5	4.007	3.56	-5.06	65,955	72,127	78,300
0	3.120	2.70	-4.90	51,843	56,167	60,492
5	2.449	1.96	-4.75	41,019	44,087	47,156
10	1.937	1.33	-4.60	32,662	34,869	37,076
15	1.543	0.80	-4.46	26,169	27,780	29,391
20	1.238	0.36	-4.33	21,093	22,287	23,481
25	1.000	0.00	-4.20	17,100	18,000	18,900
30	0.8128	0.35	-4.07	13,849	14,631	15,413
35	0.6648	0.74	-3.95	11,280	11,966	12,653
40	0.5469	1.17	-3.84	9,236.8	9,844.7	10,453
45	0.4525	1.65	-3.73	7,603.7	8,145.3	8,686.8
50	0.3764	2.16	-3.62	6,291.1	6,776.0	7,261.0
55	0.3148	2.69	-3.52	5,230.5	5,666.6	6,102.6
60	0.2646	3.26	-3.42	4,369.2	4,762.6	5,156.0
65	0.2235	3.85	-3.33	3,666.4	4,022.3	4,378.2
70	0.1896	4.46	-3.24	3,090.1	3,412.8	3,735.6
75	0.1616	5.09	-3.15	2,615.4	2,908.7	3,202.1
80	0.1383	5.73	-3.07	2,222.6	2,489.8	2,756.9
85	0.1189	6.39	-2.98	1,896.3	2,140.0	2,383.8
90	0.1026	7.06	-2.91	1,624.1	1,846.8	2,069.5
95	0.0889	7.74	-2.83	1,396.0	1,599.8	1,803.7
100	0.0773	8.43	-2.76	1,204.2	1,391.1	1,577.9
105	0.0674	9.13	-2.69	1,042.4	1,213.9	1,385.4
110	0.0590	9.83	-2.62	905.2	1,062.9	1,220.5
115	0.0519	10.54	-2.56	788.7	933.8	1,078.9
120	0.0457	11.25	-2.49	689.2	823.0	956.8
125	0.0404	11.97	-2.43	604.2	727.6	851.1
130	0.0358	12.69	-2.37	531.1	645.2	759.3
135	0.0319	13.41	-2.32	468.2	573.8	679.4
140	0.0284	14.13	-2.26	413.8	511.7	609.6
145	0.0254	14.85	-2.21	366.8	457.6	548.4
150	0.0228	15.57	-2.16	325.9	410.2	494.6