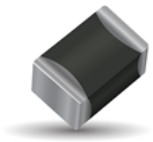
NC12M00393J--

(0805, 39 kOhm ±5%, 3950K, 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	39 kOhm
Tolerance on Resistance (25°C)	±5%
B 25/85	3950K±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

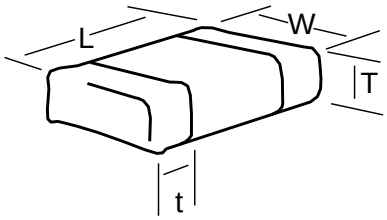
MSL 1

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	M0	0393	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

M0 (B25/85 = 3950K±3%)

B25/50	B25/75	B25/85	B25/100	B Tol
3925 K	3944 K	3950 K	3958 K	±3%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	99.59	15.64	-7.42	3,082,442	3,884,018	4,685,594
-50	68.97	14.25	-7.16	2,172,159	2,690,002	3,207,846
-45	48.40	12.94	-6.91	1,548,842	1,887,409	2,225,975
-40	34.38	11.69	-6.67	1,116,953	1,340,794	1,564,635
-35	24.71	10.51	-6.45	814,283	963,820	1,113,357
-30	17.97	9.39	-6.23	599,843	700,707	801,570
-25	13.20	8.33	-6.02	446,310	514,948	583,586
-20	9.804	7.31	-5.82	335,272	382,358	429,445
-15	7.352	6.35	-5.63	254,184	286,722	319,259
-10	5.565	5.43	-5.45	194,414	217,043	239,673
-5	4.251	4.55	-5.28	149,962	165,788	181,613
0	3.275	3.70	-5.11	116,617	127,735	138,853
5	2.544	2.90	-4.95	91,396	99,234	107,072
10	1.992	2.13	-4.80	72,167	77,705	83,244
15	1.572	1.39	-4.65	57,394	61,311	65,228
20	1.249	0.68	-4.51	45,961	48,729	51,497
25	1.000	0.00	-4.38	37,050	39,000	40,950
30	0.8057	0.66	-4.25	29,645	31,423	33,201
35	0.6534	1.30	-4.12	23,877	25,481	27,086
40	0.5331	1.92	-4.00	19,352	20,791	22,230
45	0.4376	2.53	-3.89	15,780	17,065	18,349
50	0.3612	3.12	-3.77	12,942	14,086	15,230
55	0.2998	3.70	-3.67	10,674	11,691	12,708
60	0.2501	4.26	-3.57	8,850.6	9,754.1	10,658
65	0.2097	4.81	-3.47	7,376.8	8,179.4	8,982.0
70	0.1767	5.35	-3.37	6,179.1	6,892.3	7,605.5
75	0.1496	5.87	-3.28	5,200.6	5,834.9	6,469.2
80	0.1272	6.38	-3.19	4,397.3	4,962.0	5,526.8
85	0.1087	6.88	-3.11	3,734.5	4,238.0	4,741.5
90	0.0932	7.37	-3.03	3,185.2	3,634.7	4,084.3
95	0.0803	7.84	-2.95	2,727.9	3,129.9	3,531.9
100	0.0694	8.31	-2.87	2,345.6	2,705.6	3,065.7
105	0.0602	8.76	-2.80	2,024.5	2,347.6	2,670.7
110	0.0524	9.21	-2.73	1,753.9	2,044.3	2,334.7
115	0.0458	9.64	-2.66	1,524.8	1,786.4	2,047.9
120	0.0402	10.07	-2.60	1,330.3	1,566.2	1,802.2
125	0.0353	10.48	-2.53	1,164.4	1,377.6	1,590.9
130	0.0312	10.89	-2.47	1,022.4	1,215.5	1,408.7
135	0.0276	11.29	-2.41	900.6	1,075.8	1,251.0
140	0.0245	11.68	-2.36	795.6	954.8	1,114.1
145	0.0218	12.06	-2.30	704.9	849.9	994.9
150	0.0194	12.43	-2.25	626.3	758.5	890.8