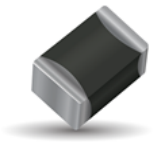
NC12J00472KBB

(0805, 4700 Ohm ±10%, 3480K, 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	4700 Ohm
Tolerance on Resistance (25°C)	±10%
B 25/85	3480K±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

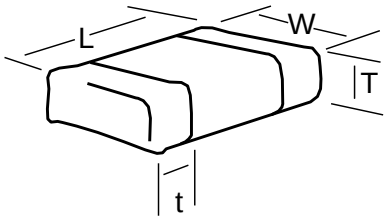
MSL 1

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	J0	0472	K	BB
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

J0 (B25/85 = 3480K±3%)

B25/50	B25/75	B25/85	B25/100	B Tol
3443 K	3471 K	3480 K	3492 K	±3%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	51.75	20.47	-6.23	169,106	243,231	317,355
-50	37.98	17.69	-6.03	129,073	178,498	227,923
-45	28.15	15.21	-5.84	98,957	132,313	165,668
-40	21.07	13.00	-5.65	76,246	99,025	121,804
-35	15.91	11.04	-5.48	59,057	74,798	90,539
-30	12.13	9.31	-5.31	45,995	57,001	68,006
-25	9.321	7.77	-5.15	36,023	43,808	51,593
-20	7.222	6.41	-4.99	28,373	33,945	39,517
-15	5.640	5.22	-4.84	22,474	26,509	30,544
-10	4.438	4.18	-4.69	17,901	20,858	23,816
-5	3.517	3.27	-4.55	14,338	16,532	18,725
0	2.807	2.48	-4.42	11,547	13,194	14,840
5	2.255	1.80	-4.29	9,349.7	10,601	11,851
10	1.824	1.22	-4.17	7,610.2	8,572.0	9,533.9
15	1.484	0.73	-4.05	6,226.1	6,974.8	7,723.4
20	1.215	0.33	-3.93	5,119.4	5,709.1	6,298.8
25	1.000	0.00	-3.82	4,230.0	4,700.0	5,170.0
30	0.8278	0.32	-3.71	3,489.3	3,890.7	4,292.1
35	0.6889	0.68	-3.61	2,892.2	3,238.0	3,583.7
40	0.5763	1.08	-3.51	2,408.5	2,708.6	3,008.7
45	0.4845	1.51	-3.41	2,014.8	2,277.0	2,539.2
50	0.4092	1.98	-3.32	1,692.9	1,923.3	2,153.7
55	0.3472	2.47	-3.23	1,428.5	1,632.1	1,835.6
60	0.2960	2.99	-3.15	1,210.3	1,391.0	1,571.8
65	0.2533	3.53	-3.06	1,029.6	1,190.7	1,351.8
70	0.2177	4.09	-2.98	879.2	1,023.4	1,167.7
75	0.1879	4.67	-2.90	753.6	883.1	1,012.7
80	0.1628	5.26	-2.83	648.3	765.0	881.8
85	0.1415	5.87	-2.76	559.6	665.2	770.7
90	0.1235	6.48	-2.69	484.7	580.4	676.1
95	0.1081	7.11	-2.62	421.3	508.2	595.1
100	0.0950	7.74	-2.55	367.3	446.5	525.7
105	0.0837	8.38	-2.49	321.2	393.5	465.8
110	0.0740	9.03	-2.43	281.7	347.9	414.1
115	0.0656	9.68	-2.37	247.8	308.5	369.2
120	0.0584	10.33	-2.31	218.6	274.4	330.1
125	0.0521	10.99	-2.26	193.3	244.7	296.1
130	0.0466	11.65	-2.21	171.5	218.8	266.2
135	0.0417	12.31	-2.15	152.4	196.2	240.0
140	0.0375	12.97	-2.10	135.9	176.4	216.9
145	0.0338	13.63	-2.06	121.4	158.9	196.5
150	0.0305	14.29	-2.01	108.7	143.6	178.5