ND03J00102JCD

(3 mm, 1000 Ohm ±5%, 3480K, Cu wire/100% Sn)

NTC Disc Thermistor with Phenolic Resin Coating

for Automotive, Industrial and General applications

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SpiCAT



KYOCERA AVX Disc NTC Thermistors are high quality devices widely used for temperature measurement, compensation, regulation, liquid level or flow detection in wide range of applications, including automotive, industrial and general purpose. Cu Wire/Sn plated, additional wire materials and custom length available upon request. Phenolic resin coating.

Characteristics

Head Size	3 mm
Operating temperature	-55°C to +150°C
Resistance	1000 Ohm
Tolerance on Resistance (25°C)	±5%
B 25/85	3480K±3%
Maximum dissipation at 25°C	0.25 W
Thermal dissipation factor	5 mW/°C
Thermal time constant	10 s
Coating	phenolic resin
Leads	Cu Wire/100% Sn

RoHS COMPLIANT

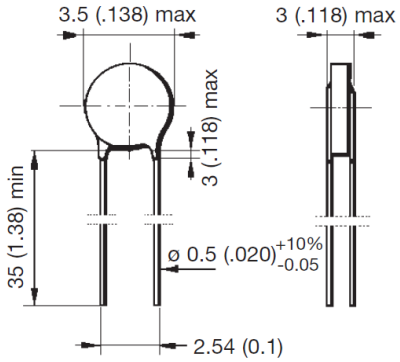
MSL 1

AEC-Q200 based qualification

Dimensions

mm (inches)

Disc Diameter	Disc Thickness	Lead Length	Lead Spacing	Lead Diameter
3.5 max	3 max	35 min	2.54	0.5
(0.138) max	(0.118) max	(1.38) min	(0.1)	(0.02)



How to Order (Packaging options)

ND — **Type**
ND = phenolic resin coating

03 — **Size**
03 = 3mm disc

J0 — **Material Code**
See Datasheet

0102 — **Resistance (Ohm)**
2 Sig. Digits + Number of Zeros

J — **Tolerance**
H = ±3%*
J = ±5%
K = ±10%
M = ±20%

* For selected PNs

CD — **Suffix: Packaging**
-- = Bulk (3000 pcs/bag)
CA = Ammopack, H=16mm (3,000 pcs)
CB = Tape and reel, H=16mm (3,000 pcs)
CC = Ammopack, H=19.5mm (3,000 pcs)
CD = Tape and reel, H=19.5mm (3,000 pcs)

Material Table

J0 (B25/85 = 3480K±3%)

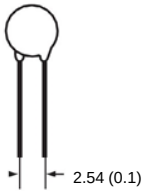
B25/50	B25/75	B25/85	B25/100	B Tol
3443 K	3471 K	3480 K	3492 K	±3%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	51.75	20.47	-6.23	38,568	51,751	64,935
-50	37.98	17.69	-6.03	29,361	37,978	46,595
-45	28.15	15.21	-5.84	22,462	28,152	33,841
-40	21.07	13.00	-5.65	17,276	21,069	24,862
-35	15.91	11.04	-5.48	13,361	15,915	18,468
-30	12.13	9.31	-5.31	10,393	12,128	13,863
-25	9.321	7.77	-5.15	8,131	9,321	10,511
-20	7.222	6.41	-4.99	6,398	7,222	8,047
-15	5.640	5.22	-4.84	5,064	5,640	6,217
-10	4.438	4.18	-4.69	4,031	4,438	4,845
-5	3.517	3.27	-4.55	3,227	3,517	3,808
0	2.807	2.48	-4.42	2,597	2,807	3,017
5	2.255	1.80	-4.29	2,102	2,255	2,409
10	1.824	1.22	-4.17	1,710	1,824	1,937
15	1.484	0.73	-4.05	1,399	1,484	1,569
20	1.215	0.33	-3.93	1,150	1,215	1,279
25	1.000	0.00	-3.82	950.0	1000	1,050
30	0.8278	0.32	-3.71	783.8	827.8	871.8
35	0.6889	0.68	-3.61	649.8	688.9	728.0
40	0.5763	1.08	-3.51	541.3	576.3	611.3
45	0.4845	1.51	-3.41	452.9	484.5	516.0
50	0.4092	1.98	-3.32	380.7	409.2	437.8
55	0.3472	2.47	-3.23	321.3	347.2	373.2
60	0.2960	2.99	-3.15	272.3	296.0	319.6
65	0.2533	3.53	-3.06	231.7	253.3	275.0
70	0.2177	4.09	-2.98	197.9	217.7	237.5
75	0.1879	4.67	-2.90	169.7	187.9	206.1
80	0.1628	5.26	-2.83	146.1	162.8	179.5
85	0.1415	5.87	-2.76	126.1	141.5	156.9
90	0.1235	6.48	-2.69	109.3	123.5	137.7
95	0.1081	7.11	-2.62	95.04	108.1	121.2
100	0.0950	7.74	-2.55	82.89	94.99	107.1
105	0.0837	8.38	-2.49	72.52	83.72	94.92
110	0.0740	9.03	-2.43	63.64	74.02	84.40
115	0.0656	9.68	-2.37	56.00	65.64	75.27
120	0.0584	10.33	-2.31	49.42	58.37	67.33
125	0.0521	10.99	-2.26	43.74	52.06	60.39
130	0.0466	11.65	-2.21	38.81	46.56	54.31
135	0.0417	12.31	-2.15	34.52	41.75	48.97
140	0.0375	12.97	-2.10	30.78	37.53	44.27
145	0.0338	13.63	-2.06	27.52	33.82	40.12
150	0.0305	14.29	-2.01	24.66	30.55	36.44

Packaging Specification

Bulk

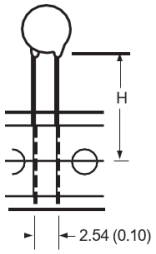
Suffix	Qty
--	3000 pcs



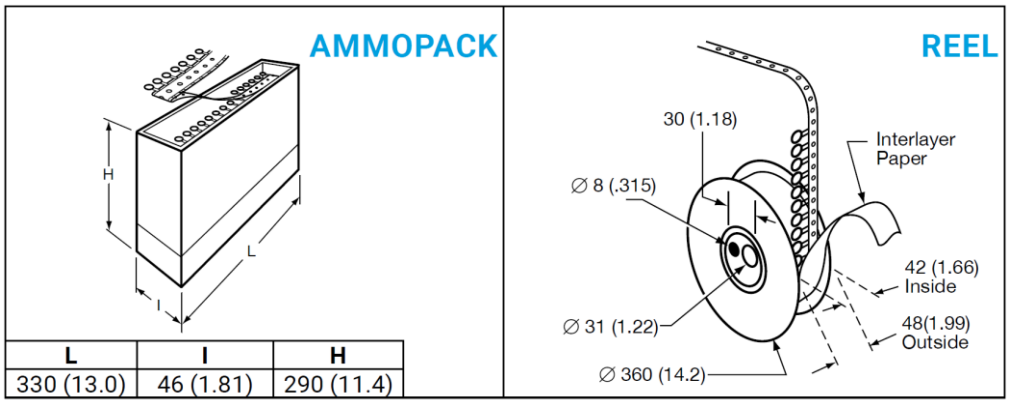
Reel and Ammopack

Tables below indicate the suffixes to specify when ordering to get the required packaging. For devices on tape, it is necessary to specify the height (H) which is the distance between the tape axis (sprocket holes axis) and the seating plane on the printed circuit board. The following types can be ordered on tape either in AMMOPACK (fan folder) or on REEL in accordance with IEC 286-2.

Suffix	H	Leads	Qty	Packaging
CA	16±0.5 (0.630±0.020)	Straight	3000 pcs	Ammopack
CB	16±0.5 (0.630±0.020)	Straight	3000 pcs	Reel
CC	19.5±0.5 (0.768±0.020)	Straight	3000 pcs	Ammopack
CD	19.5±0.5 (0.768±0.020)	Straight	3000 pcs	Reel



DIMENSIONS: millimeters (inches)



L	I	H
330 (13.0)	46 (1.81)	290 (11.4)

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.