

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)	$\pm 3\%$
B 25/85	3480K $\pm 3\%$
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

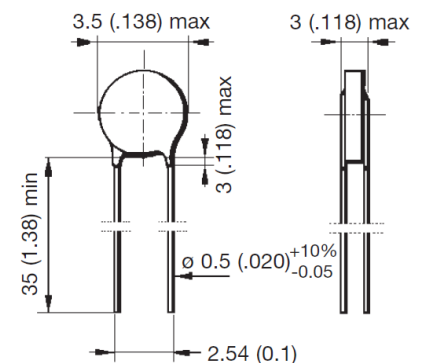


AEC-Q200
based
qualification

Dimensions

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)

mm (inches)



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	H Tolerance H = $\pm 3\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$ * For selected PNs	CB Suffix: Packaging -- = Bulk (3000 pcs/bag) CA = Ammpack, H=16mm (3,000 pcs) CB = Tape and reel, H=16mm (3,000 pcs) CC = Ammpack, H=19.5mm (3,000 pcs) CD = Tape and reel, H=19.5mm (3,000 pcs)
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Material Table

J0 (B25/85 = 3480K $\pm 3\%$)

T (°C)	R(T) / R25	TF (%)	α (%/°C)
-55	51.75	20.47	-6.23
-50	37.98	17.69	-6.03
-45	28.15	15.21	-5.84
-40	21.07	13.00	-5.65
-35	15.91	11.04	-5.48
-30	12.13	9.31	-5.31
-25	9.321	7.77	-5.15
-20	7.222	6.41	-4.99
-15	5.640	5.22	-4.84
-10	4.438	4.18	-4.69
-5	3.517	3.27	-4.55
0	2.807	2.48	-4.42
5	2.255	1.80	-4.29
10	1.824	1.22	-4.17
15	1.484	0.73	-4.05
20	1.215	0.33	-3.93
25	1.000	0.00	-3.82
30	0.8278	0.32	-3.71
35	0.6889	0.68	-3.61
40	0.5763	1.08	-3.51
45	0.4845	1.51	-3.41
50	0.4092	1.98	-3.32
55	0.3472	2.47	-3.23
60	0.2960	2.99	-3.15
65	0.2533	3.53	-3.06
70	0.2177	4.09	-2.98
75	0.1879	4.67	-2.90
80	0.1628	5.26	-2.83
85	0.1415	5.87	-2.76
90	0.1235	6.48	-2.69
95	0.1081	7.11	-2.62
100	0.0950	7.74	-2.55
105	0.0837	8.38	-2.49
110	0.0740	9.03	-2.43
115	0.0656	9.68	-2.37
120	0.0584	10.33	-2.31
125	0.0521	10.99	-2.26
130	0.0466	11.65	-2.21
135	0.0417	12.31	-2.15
140	0.0375	12.97	-2.10
145	0.0338	13.63	-2.06
150	0.0305	14.29	-2.01

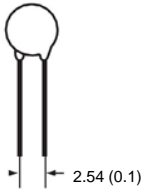
B25/50	B25/75	B25/85	B25/100	B Tol
3443 K	3471 K	3480 K	3492 K	$\pm 3\%$

R Min (Ω)	R Nom (Ω)	R Max (Ω)
39,603	51,751	63,900
30,121	37,978	45,836
23,025	28,152	33,278
17,697	21,069	24,441
13,679	15,915	18,150
10,635	12,128	13,620
8,317	9,321	10,325
6,542	7,222	7,902
5,176	5,640	6,104
4,119	4,438	4,756
3,297	3,517	3,738
2,653	2,807	2,961
2,147	2,255	2,364
1,747	1,824	1,901
1,429	1,484	1,539
1,174	1,215	1,255
970.0	1000	1,030
800.4	827.8	855.3
663.6	688.9	714.3
552.8	576.3	599.8
462.6	484.5	506.3
388.8	409.2	429.6
328.2	347.2	366.3
278.2	296.0	313.7
236.8	253.3	269.9
202.3	217.7	233.2
173.5	187.9	202.3
149.3	162.8	176.2
129.0	141.5	154.1
111.8	123.5	135.2
97.20	108.1	119.1
84.79	94.99	105.2
74.19	83.72	93.25
65.12	74.02	82.92
57.32	65.64	73.96
50.59	58.37	66.16
44.78	52.06	59.35
39.74	46.56	53.38
35.36	41.75	48.14
31.53	37.53	43.52
28.19	33.82	39.44
25.27	30.55	35.83

Packaging Specification

Bulk

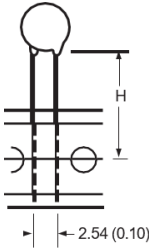
Suffix	Qty
--	3000 pcs



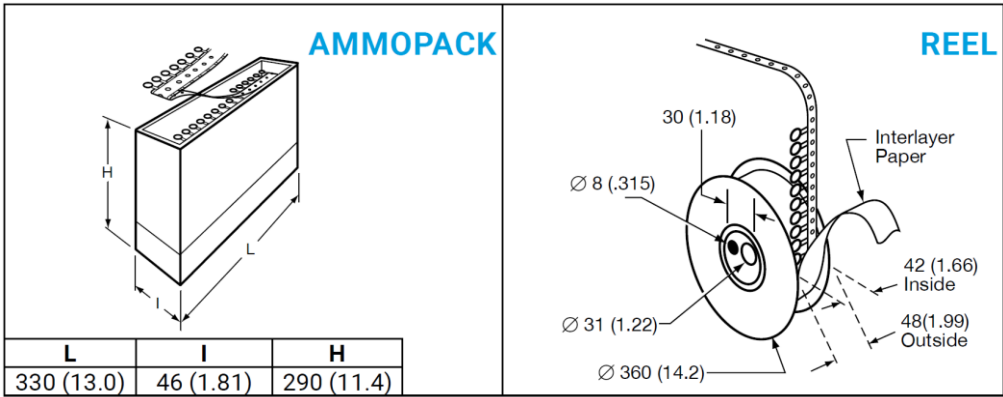
Reel and Ammopack

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)



NOTICE: Specifications are subject to change without notice. All statements, information and data given herein are believed 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.