

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	2200 Ohm
Tolerance on Resistance (25°C)	$\pm 20\%$
B 25/85	3630K $\pm 3\%$
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

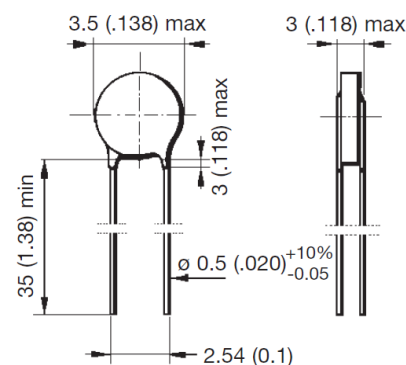


AEC-Q200
based
qualification

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

K0
Material Code
See Datasheet

0222
Resistance (Ohm)
2 Sig. Digits + Number of Zeros

M
Tolerance
H = $\pm 3\%*$
J = $\pm 5\%$
K = $\pm 10\%$
M = $\pm 20\%$

* For selected PNs

CC
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)

Material Table

K0 (B25/85 = 3630K $\pm 3\%$)

T (°C)	R(T) / R25	TF (%)	α (%/°C)
-55	56.27	21.36	-6.25
-50	41.22	18.45	-6.06
-45	30.48	15.86	-5.89
-40	22.74	13.56	-5.71
-35	17.11	11.52	-5.55
-30	12.98	9.71	-5.39
-25	9.931	8.10	-5.24
-20	7.655	6.69	-5.09
-15	5.945	5.45	-4.95
-10	4.651	4.36	-4.81
-5	3.663	3.41	-4.67
0	2.905	2.58	-4.54
5	2.319	1.88	-4.42
10	1.862	1.27	-4.30
15	1.505	0.77	-4.18
20	1.223	0.34	-4.07
25	1.000	0.00	-3.96
30	0.8219	0.33	-3.85
35	0.6792	0.71	-3.75
40	0.5641	1.12	-3.65
45	0.4708	1.58	-3.55
50	0.3949	2.07	-3.46
55	0.3327	2.58	-3.37
60	0.2816	3.12	-3.28
65	0.2393	3.69	-3.20
70	0.2043	4.27	-3.12
75	0.1751	4.87	-3.04
80	0.1506	5.49	-2.96
85	0.1301	6.12	-2.89
90	0.1128	6.76	-2.82
95	0.0981	7.41	-2.75
100	0.0856	8.07	-2.68
105	0.0750	8.74	-2.61
110	0.0659	9.42	-2.55
115	0.0581	10.09	-2.49
120	0.0514	10.78	-2.43
125	0.0455	11.46	-2.37
130	0.0405	12.15	-2.32
135	0.0361	12.84	-2.26
140	0.0323	13.53	-2.21
145	0.0289	14.22	-2.16
150	0.0260	14.91	-2.11

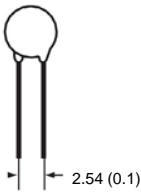
B25/50	B25/75	B25/85	B25/100	B Tol
3581 K	3618 K	3630 K	3646 K	$\pm 3\%$

R Min (Ω)	R Nom (Ω)	R Max (Ω)
72,596	123,791	174,987
55,815	90,683	125,552
43,004	67,051	91,098
33,234	50,023	66,813
25,778	37,643	49,508
20,078	28,563	37,049
15,708	21,848	27,989
12,347	16,842	21,337
9,751	13,080	16,408
7,739	10,231	12,723
6,173	8,059	9,946
4,948	6,391	7,834
3,985	5,101	6,217
3,226	4,097	4,969
2,623	3,311	3,999
2,144	2,691	3,239
1,760	2,200	2,640
1,441	1,808	2,176
1,185	1,494	1,804
978.8	1,241	1,503
812.3	1,036	1,259
677.0	868.7	1,060
566.6	731.9	897.2
476.2	619.4	762.7
401.8	526.5	651.2
340.4	449.4	558.5
289.4	385.2	481.0
246.9	331.4	415.9
211.5	286.2	361.0
181.7	248.1	314.5
156.7	215.8	275.0
135.5	188.4	241.3
117.6	165.0	212.5
102.3	145.0	187.7
89.34	127.8	166.3
78.22	113.0	147.8
68.67	100.2	131.7
60.44	89.09	117.7
53.35	79.43	105.5
47.20	71.02	94.83
41.87	63.65	85.43
37.23	57.20	77.16

Packaging Specification

Bulk

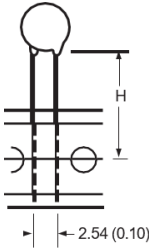
Suffix	Qty
--	3000 pcs



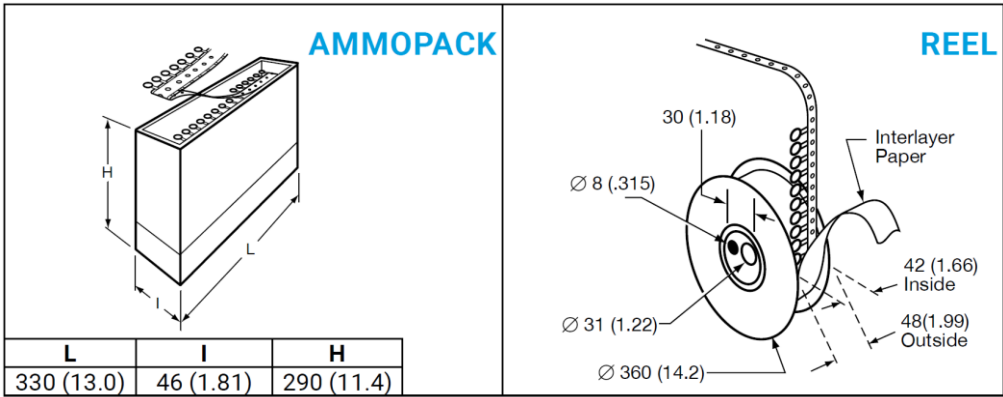
Reel and Ammopack

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.