

NTC Disc Thermistor with Phenolic Resin Coating

for Automotive, Industrial and General applications

To view data online visit:

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

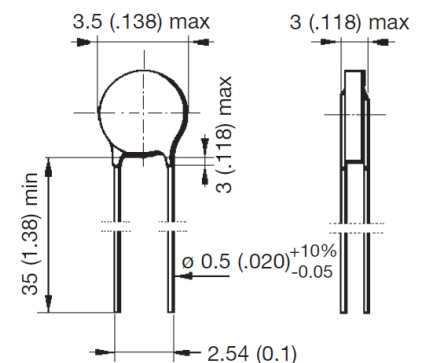
Head Size	3 mm
Operating temperature	-55°C to +150°C
Resistance	1500 Ohm
Tolerance on Resistance (25°C)	$\pm 3\%$
B 25/85	3630K $\pm 3\%$
Maximum dissipation at 25°C	0.25 W
Thermal dissipation factor	5 mW/°C
Thermal time constant	10 s
Coating	phenolic resin
Leads	Cu Wire/100% Sn



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	0152 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	CD 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

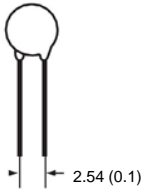
B25/50	B25/75	B25/85	B25/100	B Tol
3581 K	3618 K	3630 K	3646 K	$\pm 3\%$

R Min (Ω)	R Nom (Ω)	R Max (Ω)
63,846	84,403	104,961
48,567	61,830	75,093
37,093	45,717	54,341
28,458	34,107	39,756
21,939	25,666	29,392
17,000	19,475	21,950
13,242	14,897	16,551
10,370	11,483	12,596
8,165	8,918	9,671
6,463	6,976	7,489
5,143	5,495	5,847
4,114	4,358	4,601
3,309	3,478	3,648
2,674	2,794	2,913
2,173	2,257	2,342
1,774	1,835	1,896
1,455	1,500	1,545
1,192	1,233	1,274
981.0	1,019	1,057
811.2	846.1	881.0
673.9	706.2	738.6
562.3	592.3	622.3
471.2	499.0	526.9
396.5	422.3	448.2
335.0	359.0	383.0
284.1	306.4	328.7
241.9	262.6	283.3
206.8	226.0	245.1
177.4	195.2	212.9
152.7	169.2	185.7
131.8	147.2	162.5
114.2	128.5	142.7
99.30	112.5	125.7
86.59	98.86	111.1
75.73	87.14	98.55
66.43	77.04	87.65
58.43	68.31	78.19
51.54	60.74	69.94
45.58	54.16	62.74
40.42	48.42	56.42
35.93	43.40	50.87
32.01	39.00	45.98

Packaging Specification

Bulk

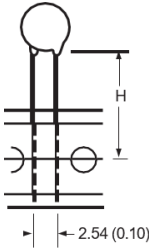
Suffix	Qty
--	3000 pcs



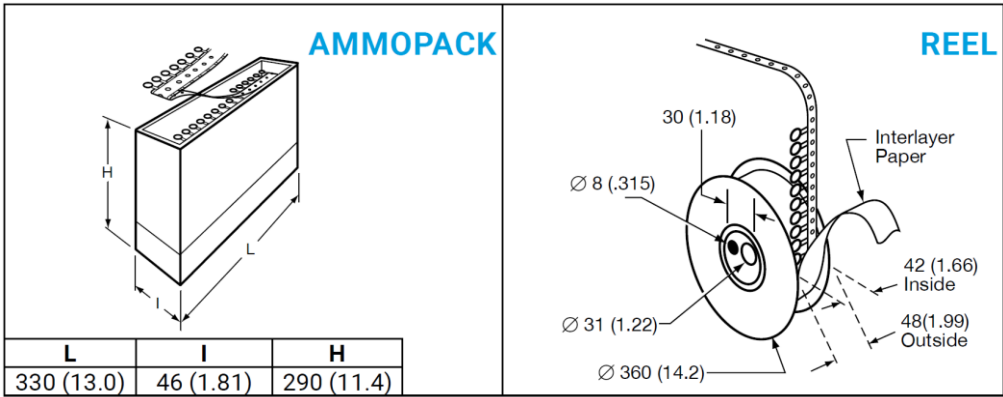
Reel and Ammopack

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.