ND03K00152MCA

(3 mm, 1500 Ohm ±20%, 3630K, Cu wire/100% Sn)

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)	±20%
B 25/85	3630K±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

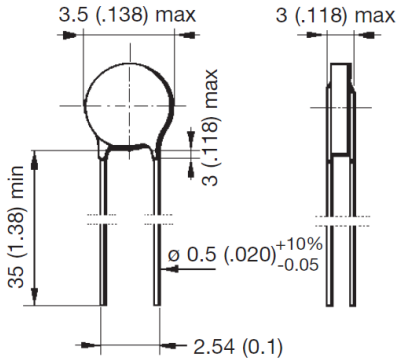
MSL 1

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

K0 — **Material Code**
See Datasheet

0152 — **Resistance (Ohm)**
2 Sig. Digits + Number of Zeros

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

* For selected PNs

CA — **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

K0 (B25/85 = 3630K±3%)

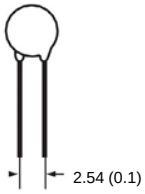
B25/50	B25/75	B25/85	B25/100	B Tol
3581 K	3618 K	3630 K	3646 K	±3%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	56.27	21.36	-6.25	49,497	84,403	119,309
-50	41.22	18.45	-6.06	38,056	61,830	85,604
-45	30.48	15.86	-5.89	29,321	45,717	62,112
-40	22.74	13.56	-5.71	22,659	34,107	45,554
-35	17.11	11.52	-5.55	17,576	25,666	33,755
-30	12.98	9.71	-5.39	13,689	19,475	25,261
-25	9.931	8.10	-5.24	10,710	14,897	19,083
-20	7.655	6.69	-5.09	8,418	11,483	14,548
-15	5.945	5.45	-4.95	6,649	8,918	11,187
-10	4.651	4.36	-4.81	5,277	6,976	8,675
-5	3.663	3.41	-4.67	4,209	5,495	6,781
0	2.905	2.58	-4.54	3,373	4,358	5,342
5	2.319	1.88	-4.42	2,717	3,478	4,239
10	1.862	1.27	-4.30	2,199	2,794	3,388
15	1.505	0.77	-4.18	1,789	2,257	2,726
20	1.223	0.34	-4.07	1,462	1,835	2,208
25	1.000	0.00	-3.96	1,200	1,500	1,800
30	0.8219	0.33	-3.85	982.2	1,233	1,484
35	0.6792	0.71	-3.75	807.8	1,019	1,230
40	0.5641	1.12	-3.65	667.4	846.1	1,025
45	0.4708	1.58	-3.55	553.8	706.2	858.6
50	0.3949	2.07	-3.46	461.6	592.3	723.0
55	0.3327	2.58	-3.37	386.3	499.0	611.7
60	0.2816	3.12	-3.28	324.7	422.3	520.0
65	0.2393	3.69	-3.20	274.0	359.0	444.0
70	0.2043	4.27	-3.12	232.1	306.4	380.8
75	0.1751	4.87	-3.04	197.3	262.6	327.9
80	0.1506	5.49	-2.96	168.4	226.0	283.5
85	0.1301	6.12	-2.89	144.2	195.2	246.1
90	0.1128	6.76	-2.82	123.9	169.2	214.4
95	0.0981	7.41	-2.75	106.8	147.2	187.5
100	0.0856	8.07	-2.68	92.40	128.5	164.5
105	0.0750	8.74	-2.61	80.18	112.5	144.9
110	0.0659	9.42	-2.55	69.78	98.86	127.9
115	0.0581	10.09	-2.49	60.92	87.14	113.4
120	0.0514	10.78	-2.43	53.33	77.04	100.8
125	0.0455	11.46	-2.37	46.82	68.31	89.80
130	0.0405	12.15	-2.32	41.21	60.74	80.27
135	0.0361	12.84	-2.26	36.37	54.16	71.94
140	0.0323	13.53	-2.21	32.19	48.42	64.65
145	0.0289	14.22	-2.16	28.55	43.40	58.25
150	0.0260	14.91	-2.11	25.39	39.00	52.61

Packaging Specification

Bulk

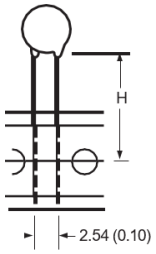
Suffix	Qty
--	3000 pcs



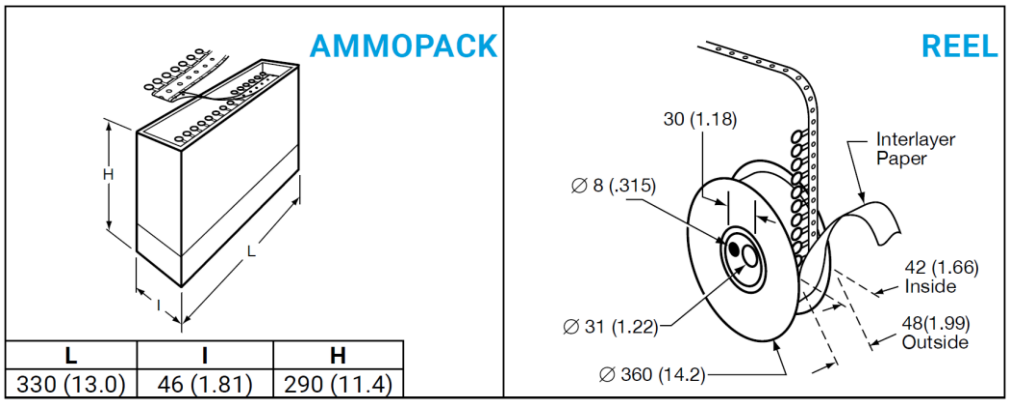
Reel and Ammopack

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.