ND03L00272H--

(3 mm, 2700 Ohm ±3%, 3790K, 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	2700 Ohm
Tolerance on Resistance (25°C)	±3%
B 25/85	3790K±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

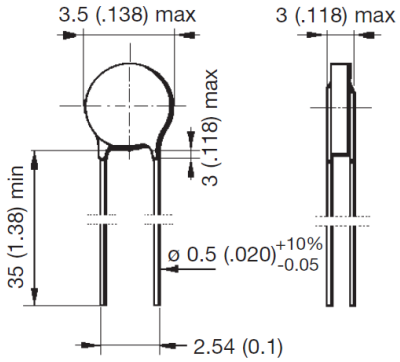
MSL 1

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

L0 — **Material Code**
See Datasheet

0272 — **Resistance (Ohm)**
2 Sig. Digits + Number of Zeros

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

* For selected PNs

-- — **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

L0 (B25/85 = 3790K±3%)

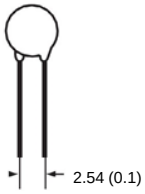
B25/50	B25/75	B25/85	B25/100	B Tol
3765 K	3784 K	3790 K	3798 K	±3%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	82.54	22.30	-7.12	166,482	222,866	279,251
-50	58.03	19.27	-6.87	121,789	156,674	191,559
-45	41.31	16.57	-6.63	89,705	111,524	133,344
-40	29.75	14.16	-6.40	66,549	80,337	94,125
-35	21.68	12.03	-6.18	49,736	58,533	67,329
-30	15.97	10.14	-5.98	37,448	43,111	48,775
-25	11.88	8.46	-5.78	28,406	32,083	35,761
-20	8.931	6.99	-5.59	21,706	24,114	26,522
-15	6.777	5.69	-5.40	16,707	18,297	19,886
-10	5.188	4.55	-5.23	12,951	14,009	15,066
-5	4.007	3.56	-5.06	10,110	10,819	11,529
0	3.120	2.70	-4.90	7,945	8,425	8,905
5	2.449	1.96	-4.75	6,285	6,613	6,941
10	1.937	1.33	-4.60	5,004	5,230	5,457
15	1.543	0.80	-4.46	4,009	4,167	4,325
20	1.238	0.36	-4.33	3,231	3,343	3,455
25	1.000	0.00	-4.20	2,619	2,700	2,781
30	0.8128	0.35	-4.07	2,121	2,195	2,268
35	0.6648	0.74	-3.95	1,728	1,795	1,862
40	0.5469	1.17	-3.84	1,415	1,477	1,538
45	0.4525	1.65	-3.73	1,165	1,222	1,279
50	0.3764	2.16	-3.62	964.0	1,016	1,069
55	0.3148	2.69	-3.52	801.6	850.0	898.4
60	0.2646	3.26	-3.42	669.7	714.4	759.1
65	0.2235	3.85	-3.33	562.0	603.3	644.7
70	0.1896	4.46	-3.24	473.7	511.9	550.1
75	0.1616	5.09	-3.15	401.0	436.3	471.6
80	0.1383	5.73	-3.07	340.9	373.5	406.1
85	0.1189	6.39	-2.98	290.9	321.0	351.1
90	0.1026	7.06	-2.91	249.1	277.0	304.9
95	0.0889	7.74	-2.83	214.2	240.0	265.7
100	0.0773	8.43	-2.76	184.8	208.7	232.5
105	0.0674	9.13	-2.69	160.0	182.1	204.2
110	0.0590	9.83	-2.62	139.0	159.4	179.9
115	0.0519	10.54	-2.56	121.1	140.1	159.0
120	0.0457	11.25	-2.49	105.9	123.5	141.0
125	0.0404	11.97	-2.43	92.81	109.1	125.5
130	0.0358	12.69	-2.37	81.60	96.78	112.0
135	0.0319	13.41	-2.32	71.95	86.07	100.2
140	0.0284	14.13	-2.26	63.61	76.76	89.90
145	0.0254	14.85	-2.21	56.39	68.64	80.88
150	0.0228	15.57	-2.16	50.11	61.53	72.96

Packaging Specification

Bulk

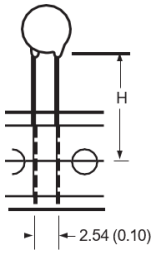
Suffix	Qty
--	3000 pcs



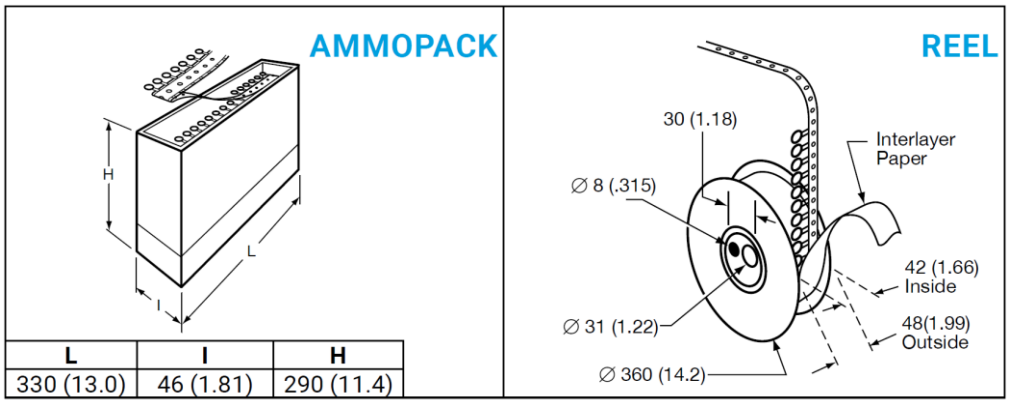
Reel and Ammopack

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.