

NTC Accurate Thermistor with Phenolic Resin + Varnish Coating

for Automotive, Industrial and General applications



KYOCERA AVX Accurate NTC Thermistors are high quality devices with tight tolerance widely used for accurate 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 available upon request. Epoxy resin coating recommended for severe mounting conditions.

Characteristics

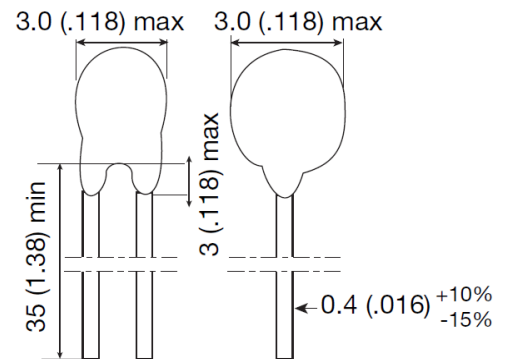
Head Size	3 mm
Operating temperature	-55°C to +150°C
Resistance	10 kOhm
Tolerance on Resistance (25°C)	±1%
B 25/85	3965K±0.5%
Maximum dissipation at 25°C	0.16 W
Thermal dissipation factor	4 mW/°C
Thermal time constant	9 s
Coating	epoxy resin
Leads	Cu Wire/100% Sn



AEC-Q200 based qualification

Dimensions

mm (inches)			
Head Diameter	Lead Length	Lead Spacing*	Lead Diameter
3 max	35 min	2	0.4
(0.118) max	(1.38) min	(0.079)	(0.016)



* Lead spacing for bulk packaging (please see page 3 for details)

How to Order (Packaging options)

NP
Type
NP = epoxy resin coating (for severe mounting conditions)

30
Size
30 = 3mm head

MA
Material Code
See Datasheet

0103
Resistance (Ohm)
2 Sig. Digits + Number of Zeros

F
Tolerance
F = ±1%
G = ±2%
H = ±3%
J = ±5%

CD
Suffix: Packaging
-- = Bulk (1000 pcs/bag)
CA = Ammpack, H=16mm (2,000 pcs)
CB = Tape and reel, H=16mm (2,000 pcs)
CC = Ammpack, H=19.5mm (2,000 pcs)
CD = Tape and reel, H=19.5mm (2,000 pcs)

Material Table

MA (B25/85 = 3965K \pm 0.5%)

T (°C)	R(T) / R25	TF (%)	α (%/°C)
-55	101.1	2.47	-7.49
-50	69.81	2.26	-7.22
-45	48.87	2.06	-6.96
-40	34.65	1.87	-6.71
-35	24.87	1.69	-6.48
-30	18.06	1.52	-6.26
-25	13.26	1.35	-6.05
-20	9.837	1.19	-5.84
-15	7.372	1.04	-5.65
-10	5.578	0.89	-5.47
-5	4.259	0.75	-5.29
0	3.280	0.61	-5.12
5	2.548	0.48	-4.96
10	1.994	0.35	-4.81
15	1.573	0.23	-4.66
20	1.250	0.11	-4.52
25	1.000	0.00	-4.38
30	0.8054	0.11	-4.25
35	0.6528	0.22	-4.13
40	0.5324	0.32	-4.01
45	0.4368	0.42	-3.90
50	0.3603	0.52	-3.79
55	0.2989	0.61	-3.68
60	0.2492	0.70	-3.58
65	0.2088	0.79	-3.48
70	0.1758	0.88	-3.39
75	0.1487	0.96	-3.30
80	0.1263	1.04	-3.21
85	0.1078	1.12	-3.13
90	0.0923	1.20	-3.05
95	0.0794	1.27	-2.97
100	0.0686	1.35	-2.90
105	0.0594	1.42	-2.83
110	0.0517	1.49	-2.76
115	0.0451	1.55	-2.69
120	0.0395	1.62	-2.62
125	0.0347	1.68	-2.56
130	0.0305	1.75	-2.50
135	0.0270	1.81	-2.44
140	0.0239	1.87	-2.39
145	0.0213	1.93	-2.33
150	0.0189	1.98	-2.28

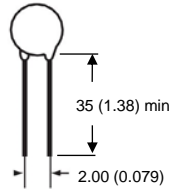
B25/50	B25/75	B25/85	B25/100	B Tol
3934 K	3957 K	3965 K	3975 K	\pm 0.5%

R Min (Ω)	R Nom (Ω)	R Max (Ω)
975,799	1,010,856	1,045,912
675,351	698,106	720,862
473,723	488,681	503,638
336,553	346,500	356,448
242,015	248,703	255,391
176,049	180,591	185,133
129,474	132,588	135,703
96,221	98,374	100,527
72,223	73,724	75,224
54,727	55,780	56,834
41,846	42,590	43,334
32,275	32,803	33,332
25,099	25,476	25,853
19,673	19,943	20,213
15,537	15,731	15,925
12,360	12,499	12,638
9,900	10,000	10,100
7,965	8,054	8,144
6,449	6,528	6,608
5,254	5,324	5,394
4,306	4,368	4,430
3,549	3,603	3,658
2,940	2,989	3,037
2,449	2,492	2,534
2,050	2,088	2,125
1,725	1,758	1,791
1,458	1,487	1,516
1,237	1,263	1,289
1,055	1,078	1,101
903.0	923.3	943.6
776.1	794.1	812.2
669.6	685.7	701.7
579.8	594.2	608.5
503.9	516.7	529.6
439.4	450.9	462.4
384.4	394.8	405.1
337.4	346.7	356.0
297.1	305.5	313.8
262.3	269.9	277.5
232.3	239.2	246.0
206.3	212.5	218.8
183.7	189.4	195.0

Packaging Specification

Bulk

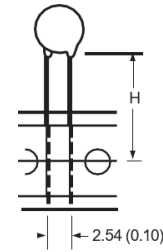
Suffix	Qty
--	1000 pcs



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	2000 pcs	Ammopack
CB	16±0.5 (0.630±0.020)	Straight	2000 pcs	Reel
CC	19.5±0.5 (0.768±0.020)	Straight	2000 pcs	Ammopack
CD	19.5±0.5 (0.768±0.020)	Straight	2000 pcs	Reel



DIMENSIONS: millimeters (inches)

AMMOPACK

L	I	H
330 (13.0)	46 (1.81)	290 (11.4)

REEL

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.

单击下面可查看定价，库存，交付和生命周期等信息

[>>AVX](#)