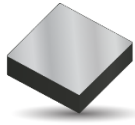


## NTC Accurate Thermistor for Wirebonding

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. Parts have Ag top and bottom surface, suitable for wirebonding.

## Characteristics

Chip Size	0707 typ
Operating temperature	-55°C to +150°C
Resistance	25 kOhm
Tolerance on Resistance (25°C)	$\pm 1\%$
B 25/85	4235K $\pm 1\%$
Maximum dissipation at 25°C	0.16 W
Thermal dissipation factor	2 mW/°C
Thermal time constant	6 s
Top and Bottom Surface	Ag



RoHS  
COMPLIANT  
MSL 1



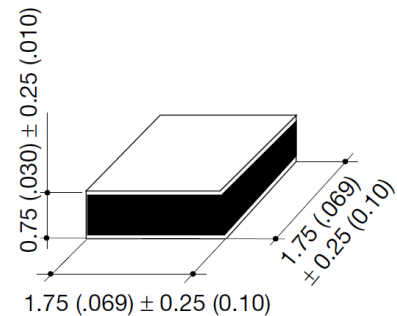
AEC-Q200  
based  
qualification

## Dimensions

mm (inches)

Length	Width	Thickness
1.75 $\pm 0.25$	1.75 $\pm 0.25$	0.75 $\pm 0.25$
(0.069 $\pm 0.01$ )	(0.069 $\pm 0.01$ )	(.030 $\pm 0.010$ )

Dimensions are for reference only, for actual dimensions on specific PN, please contact KYOCERA AVX



## How to Order (Packaging options)

NK	20	PA	0253	F	--
Type	Size	Material Code	Resistance (Ohm)	Tolerance	Suffix: Packaging
NK = Chip with Ag top and bottom surface (for wirebonding)	20 = 0707 (typ)	See Datasheet	2 Sig. Digits + Number of Zeros	F = $\pm 1\%$ G = $\pm 2\%$ H = $\pm 3\%$ J = $\pm 5\%$	-- = Bulk (1000 pcs/bag)

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.

## Material Table

PA (B25/85 = 4235K $\pm 1\%$ )

T (°C)	R(T) / R25	TF (%)	$\alpha$ (%/°C)
-55	123.4	8.31	-7.68
-50	84.33	7.18	-7.42
-45	58.39	6.17	-7.17
-40	40.93	5.28	-6.93
-35	29.04	4.48	-6.71
-30	20.83	3.78	-6.49
-25	15.11	3.15	-6.29
-20	11.07	2.60	-6.09
-15	8.190	2.12	-5.90
-10	6.117	1.69	-5.72
-5	4.610	1.33	-5.54
0	3.505	1.01	-5.38
5	2.686	0.73	-5.22
10	2.075	0.50	-5.07
15	1.615	0.30	-4.92
20	1.267	0.13	-4.78
25	1.000	0.00	-4.64
30	0.7949	0.13	-4.51
35	0.6359	0.28	-4.39
40	0.5119	0.44	-4.27
45	0.4145	0.61	-4.15
50	0.3376	0.80	-4.04
55	0.2764	1.00	-3.93
60	0.2276	1.21	-3.83
65	0.1883	1.43	-3.73
70	0.1566	1.66	-3.63
75	0.1308	1.89	-3.54
80	0.1098	2.13	-3.45
85	0.0926	2.38	-3.37
90	0.0784	2.63	-3.28
95	0.0666	2.88	-3.20
100	0.0569	3.14	-3.13
105	0.0487	3.40	-3.05
110	0.0419	3.66	-2.98
115	0.0361	3.93	-2.91
120	0.0313	4.19	-2.84
125	0.0272	4.46	-2.78
130	0.0237	4.73	-2.71
135	0.0207	4.99	-2.65
140	0.0182	5.26	-2.59
145	0.0160	5.53	-2.54
150	0.0141	5.80	-2.48

B25/50	B25/75	B25/85	B25/100	B Tol
4185 K	4222 K	4235 K	4253 K	$\pm 1\%$

R Min ( $\Omega$ )	R Nom ( $\Omega$ )	R Max ( $\Omega$ )
2,797,606	3,084,695	3,371,784
1,935,843	2,108,229	2,280,615
1,355,075	1,459,748	1,564,422
959,127	1,023,350	1,087,572
686,157	725,945	765,733
495,938	520,812	545,686
362,004	377,687	393,371
266,757	276,725	286,694
198,368	204,754	211,139
148,810	152,931	157,052
112,576	115,256	117,936
85,857	87,613	89,370
65,990	67,152	68,313
51,101	51,877	52,653
39,858	40,382	40,906
31,304	31,663	32,022
24,750	25,000	25,250
19,648	19,872	20,096
15,695	15,898	16,100
12,613	12,797	12,981
10,196	10,363	10,530
8,287	8,440	8,592
6,773	6,911	7,050
5,564	5,690	5,816
4,593	4,708	4,823
3,811	3,915	4,019
3,176	3,271	3,365
2,659	2,745	2,831
2,236	2,314	2,392
1,888	1,959	2,030
1,601	1,665	1,730
1,362	1,421	1,480
1,164	1,218	1,271
998.1	1,047	1,096
858.9	903.5	948.0
741.7	782.3	822.9
642.6	679.7	716.8
558.5	592.4	626.3
486.9	517.9	549.0
425.8	454.2	482.7
373.4	399.5	425.6
328.4	352.4	376.3