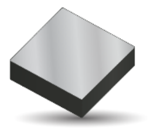
NK20MA0702J--

(0707, 7000 Ohm ±5%, 3965K, Cu wire/100% Sn)

KYOCERA AVX

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	7000 Ohm
Tolerance on Resistance (25°C)	±5%
B 25/85	3965K±0.5%
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

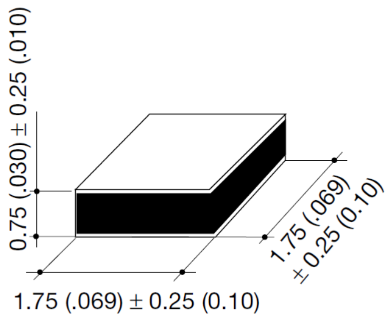
AEC-Q200 based qualification

Dimensions

mm (inches)

Length	Width	Thickness
1.75±0.25	1.75±0.25	0.75±0.25
(0.069±0.01)	(0.069±0.01)	(.030±.010)

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



How to Order (Packaging options)

NK	20	MA	0702	J	--
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 = ±1% G = ±2% H = ±3% J = ±5%	-- = Bulk (1000 pcs/bag)

Material Table

MA (B25/85 = 3965K±0.5%)

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

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	101.1	2.47	-7.49	654,756	707,599	760,443
-50	69.81	2.26	-7.22	453,199	488,674	524,150
-45	48.87	2.06	-6.96	317,923	342,076	366,230
-40	34.65	1.87	-6.71	225,885	242,550	259,215
-35	24.87	1.69	-6.48	162,447	174,092	185,737
-30	18.06	1.52	-6.26	118,177	126,414	134,650
-25	13.26	1.35	-6.05	86,920	92,812	98,704
-20	9.837	1.19	-5.84	64,600	68,862	73,124
-15	7.372	1.04	-5.65	48,492	51,607	54,721
-10	5.578	0.89	-5.47	36,747	39,046	41,345
-5	4.259	0.75	-5.29	28,100	29,813	31,526
0	3.280	0.61	-5.12	21,674	22,962	24,251
5	2.548	0.48	-4.96	16,856	17,833	18,810
10	1.994	0.35	-4.81	13,213	13,960	14,708
15	1.573	0.23	-4.66	10,436	11,012	11,588
20	1.250	0.11	-4.52	8,302	8,749	9,197
25	1.000	0.00	-4.38	6,650	7,000	7,350
30	0.8054	0.11	-4.25	5,350	5,638	5,926
35	0.6528	0.22	-4.13	4,332	4,570	4,808
40	0.5324	0.32	-4.01	3,529	3,727	3,925
45	0.4368	0.42	-3.90	2,892	3,057	3,223
50	0.3603	0.52	-3.79	2,383	2,522	2,661
55	0.2989	0.61	-3.68	1,975	2,092	2,209
60	0.2492	0.70	-3.58	1,645	1,744	1,844
65	0.2088	0.79	-3.48	1,377	1,461	1,546
70	0.1758	0.88	-3.39	1,158	1,230	1,303
75	0.1487	0.96	-3.30	978.7	1,041	1,103
80	0.1263	1.04	-3.21	830.8	884.2	937.6
85	0.1078	1.12	-3.13	708.2	754.4	800.6
90	0.0923	1.20	-3.05	606.3	646.3	686.4
95	0.0794	1.27	-2.97	521.0	555.9	590.8
100	0.0686	1.35	-2.90	449.5	480.0	510.4
105	0.0594	1.42	-2.83	389.2	415.9	442.6
110	0.0517	1.49	-2.76	338.2	361.7	385.2
115	0.0451	1.55	-2.69	294.9	315.6	336.3
120	0.0395	1.62	-2.62	258.0	276.3	294.6
125	0.0347	1.68	-2.56	226.5	242.7	258.9
130	0.0305	1.75	-2.50	199.4	213.8	228.2
135	0.0270	1.81	-2.44	176.1	188.9	201.8
140	0.0239	1.87	-2.39	155.9	167.4	178.9
145	0.0213	1.93	-2.33	138.5	148.8	159.1
150	0.0189	1.98	-2.28	123.3	132.6	141.8