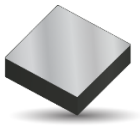
NK20MA0392G--

(0707, 3900 Ohm ±2%, 3965K, Cu wire/100% Sn)

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	3900 Ohm
Tolerance on Resistance (25°C)	±2%
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

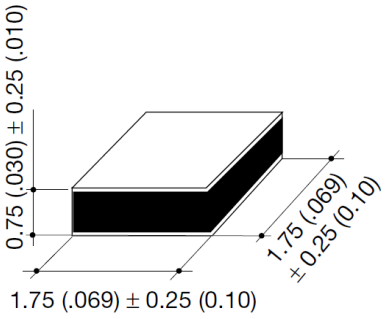
AEC-Q200 based qualification

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	0392	G	--
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)

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.

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	376,619	394,234	411,848
-50	69.81	2.26	-7.22	260,664	272,261	283,859
-45	48.87	2.06	-6.96	182,846	190,585	198,325
-40	34.65	1.87	-6.71	129,904	135,135	140,366
-35	24.87	1.69	-6.48	93,416	96,994	100,572
-30	18.06	1.52	-6.26	67,955	70,430	72,906
-25	13.26	1.35	-6.05	49,978	51,709	53,441
-20	9.837	1.19	-5.84	37,142	38,366	39,589
-15	7.372	1.04	-5.65	27,879	28,752	29,625
-10	5.578	0.89	-5.47	21,126	21,754	22,383
-5	4.259	0.75	-5.29	16,154	16,610	17,066
0	3.280	0.61	-5.12	12,459	12,793	13,127
5	2.548	0.48	-4.96	9,689	9,936	10,182
10	1.994	0.35	-4.81	7,595	7,778	7,961
15	1.573	0.23	-4.66	5,998	6,135	6,272
20	1.250	0.11	-4.52	4,772	4,875	4,978
25	1.000	0.00	-4.38	3,822	3,900	3,978
30	0.8054	0.11	-4.25	3,075	3,141	3,207
35	0.6528	0.22	-4.13	2,490	2,546	2,603
40	0.5324	0.32	-4.01	2,028	2,076	2,125
45	0.4368	0.42	-3.90	1,662	1,703	1,745
50	0.3603	0.52	-3.79	1,370	1,405	1,441
55	0.2989	0.61	-3.68	1,135	1,166	1,196
60	0.2492	0.70	-3.58	945.5	971.8	998.0
65	0.2088	0.79	-3.48	791.5	814.3	837.0
70	0.1758	0.88	-3.39	665.8	685.6	705.3
75	0.1487	0.96	-3.30	562.7	579.9	597.0
80	0.1263	1.04	-3.21	477.6	492.6	507.6
85	0.1078	1.12	-3.13	407.2	420.3	433.4
90	0.0923	1.20	-3.05	348.6	360.1	371.6
95	0.0794	1.27	-2.97	299.6	309.7	319.8
100	0.0686	1.35	-2.90	258.5	267.4	276.4
105	0.0594	1.42	-2.83	223.8	231.7	239.6
110	0.0517	1.49	-2.76	194.5	201.5	208.5
115	0.0451	1.55	-2.69	169.6	175.9	182.1
120	0.0395	1.62	-2.62	148.4	154.0	159.5
125	0.0347	1.68	-2.56	130.2	135.2	140.2
130	0.0305	1.75	-2.50	114.7	119.1	123.6
135	0.0270	1.81	-2.44	101.3	105.3	109.3
140	0.0239	1.87	-2.39	89.67	93.28	96.89
145	0.0213	1.93	-2.33	79.64	82.89	86.15
150	0.0189	1.98	-2.28	70.92	73.86	76.80