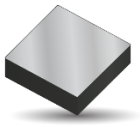
NK20MA0302G--

(0707, 3000 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	3000 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

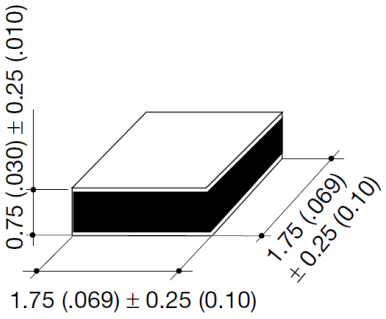
AEC-Q200 based qualification

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	0302	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)

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	289,707	303,257	316,806
-50	69.81	2.26	-7.22	200,511	209,432	218,353
-45	48.87	2.06	-6.96	140,651	146,604	152,557
-40	34.65	1.87	-6.71	99,926	103,950	107,974
-35	24.87	1.69	-6.48	71,858	74,611	77,363
-30	18.06	1.52	-6.26	52,273	54,177	56,082
-25	13.26	1.35	-6.05	38,445	39,777	41,109
-20	9.837	1.19	-5.84	28,571	29,512	30,453
-15	7.372	1.04	-5.65	21,446	22,117	22,788
-10	5.578	0.89	-5.47	16,251	16,734	17,217
-5	4.259	0.75	-5.29	12,426	12,777	13,128
0	3.280	0.61	-5.12	9,584	9,841	10,098
5	2.548	0.48	-4.96	7,453	7,643	7,832
10	1.994	0.35	-4.81	5,842	5,983	6,124
15	1.573	0.23	-4.66	4,614	4,719	4,825
20	1.250	0.11	-4.52	3,670	3,750	3,829
25	1.000	0.00	-4.38	2,940	3,000	3,060
30	0.8054	0.11	-4.25	2,365	2,416	2,467
35	0.6528	0.22	-4.13	1,915	1,959	2,002
40	0.5324	0.32	-4.01	1,560	1,597	1,634
45	0.4368	0.42	-3.90	1,279	1,310	1,342
50	0.3603	0.52	-3.79	1,054	1,081	1,108
55	0.2989	0.61	-3.68	873.2	896.6	920.0
60	0.2492	0.70	-3.58	727.3	747.5	767.7
65	0.2088	0.79	-3.48	608.9	626.4	643.8
70	0.1758	0.88	-3.39	512.2	527.3	542.5
75	0.1487	0.96	-3.30	432.8	446.0	459.2
80	0.1263	1.04	-3.21	367.4	378.9	390.5
85	0.1078	1.12	-3.13	313.2	323.3	333.4
90	0.0923	1.20	-3.05	268.1	277.0	285.8
95	0.0794	1.27	-2.97	230.4	238.2	246.0
100	0.0686	1.35	-2.90	198.8	205.7	212.6
105	0.0594	1.42	-2.83	172.2	178.3	184.3
110	0.0517	1.49	-2.76	149.6	155.0	160.4
115	0.0451	1.55	-2.69	130.5	135.3	140.1
120	0.0395	1.62	-2.62	114.1	118.4	122.7
125	0.0347	1.68	-2.56	100.2	104.0	107.8
130	0.0305	1.75	-2.50	88.20	91.64	95.07
135	0.0270	1.81	-2.44	77.89	80.97	84.06
140	0.0239	1.87	-2.39	68.98	71.76	74.53
145	0.0213	1.93	-2.33	61.26	63.76	66.27
150	0.0189	1.98	-2.28	54.55	56.81	59.08