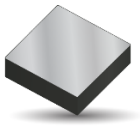
NK20MA0602H--

(0707, 6000 Ohm ±3%, 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	6000 Ohm
Tolerance on Resistance (25°C)	±3%
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

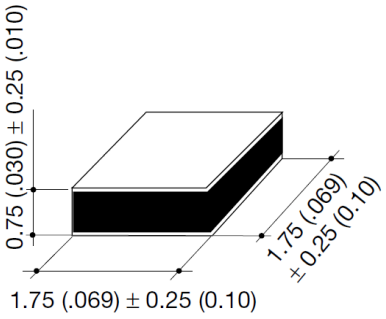
AEC-Q200 based qualification

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	0602	H	--
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	573,349	606,514	639,678
-50	69.81	2.26	-7.22	396,833	418,864	440,895
-45	48.87	2.06	-6.96	278,370	293,208	308,047
-40	34.65	1.87	-6.71	197,774	207,900	218,027
-35	24.87	1.69	-6.48	142,224	149,222	156,219
-30	18.06	1.52	-6.26	103,462	108,355	113,247
-25	13.26	1.35	-6.05	76,094	79,553	83,013
-20	9.837	1.19	-5.84	56,552	59,025	61,497
-15	7.372	1.04	-5.65	42,449	44,234	46,019
-10	5.578	0.89	-5.47	32,167	33,468	34,769
-5	4.259	0.75	-5.29	24,597	25,554	26,512
0	3.280	0.61	-5.12	18,971	19,682	20,393
5	2.548	0.48	-4.96	14,754	15,286	15,818
10	1.994	0.35	-4.81	11,565	11,966	12,367
15	1.573	0.23	-4.66	9,134	9,439	9,744
20	1.250	0.11	-4.52	7,266	7,499	7,733
25	1.000	0.00	-4.38	5,820	6,000	6,180
30	0.8054	0.11	-4.25	4,682	4,833	4,983
35	0.6528	0.22	-4.13	3,791	3,917	4,043
40	0.5324	0.32	-4.01	3,089	3,195	3,301
45	0.4368	0.42	-3.90	2,531	2,621	2,710
50	0.3603	0.52	-3.79	2,086	2,162	2,238
55	0.2989	0.61	-3.68	1,728	1,793	1,858
60	0.2492	0.70	-3.58	1,440	1,495	1,550
65	0.2088	0.79	-3.48	1,205	1,253	1,300
70	0.1758	0.88	-3.39	1,014	1,055	1,096
75	0.1487	0.96	-3.30	856.8	892.1	927.4
80	0.1263	1.04	-3.21	727.3	757.9	788.5
85	0.1078	1.12	-3.13	620.0	646.6	673.3
90	0.0923	1.20	-3.05	530.7	554.0	577.2
95	0.0794	1.27	-2.97	456.1	476.5	496.8
100	0.0686	1.35	-2.90	393.5	411.4	429.3
105	0.0594	1.42	-2.83	340.8	356.5	372.2
110	0.0517	1.49	-2.76	296.1	310.0	323.9
115	0.0451	1.55	-2.69	258.2	270.5	282.9
120	0.0395	1.62	-2.62	225.9	236.9	247.8
125	0.0347	1.68	-2.56	198.3	208.0	217.8
130	0.0305	1.75	-2.50	174.6	183.3	192.0
135	0.0270	1.81	-2.44	154.2	161.9	169.7
140	0.0239	1.87	-2.39	136.5	143.5	150.5
145	0.0213	1.93	-2.33	121.2	127.5	133.8
150	0.0189	1.98	-2.28	108.0	113.6	119.3