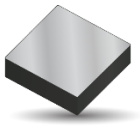
NK20RA0154G--

(0707, 150 kOhm ±2%, 4380K, 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	150 kOhm
Tolerance on Resistance (25°C)	±2%
B 25/85	4380K±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

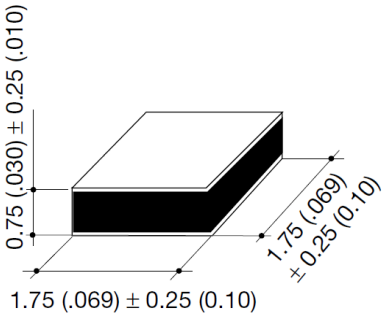
AEC-Q200 based qualification

Dimensions

mm (inches)

Length	Width	Thickness
1.75±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	RA	0154	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

RA (B25/85 = 4380K±1%)

B25/50	B25/75	B25/85	B25/100	B Tol
4282 K	4354 K	4380 K	4416 K	±1%

T (°C)	R(T) / R25	TF (%)	α (%/°C)	R Min (Ω)	R Nom (Ω)	R Max (Ω)
-55	110.8	8.59	-7.24	14,854,810	16,614,227	18,373,644
-50	77.24	7.42	-7.03	10,494,812	11,586,396	12,677,980
-45	54.44	6.38	-6.83	7,481,907	8,166,310	8,850,713
-40	38.76	5.46	-6.63	5,381,007	5,814,502	6,247,998
-35	27.87	4.63	-6.45	3,903,124	4,180,432	4,457,739
-30	20.22	3.90	-6.27	2,854,590	3,033,722	3,212,854
-25	14.81	3.26	-6.10	2,104,481	2,221,321	2,338,161
-20	10.94	2.69	-5.93	1,563,529	1,640,484	1,717,440
-15	8.144	2.19	-5.78	1,170,359	1,221,551	1,272,743
-10	6.112	1.75	-5.62	882,431	916,835	951,239
-5	4.623	1.37	-5.48	670,023	693,394	716,765
0	3.522	1.04	-5.34	512,211	528,268	544,324
5	2.702	0.75	-5.20	394,152	405,318	416,484
10	2.087	0.51	-5.07	305,242	313,108	320,974
15	1.623	0.31	-4.94	237,850	243,468	249,087
20	1.270	0.14	-4.82	186,446	190,520	194,593
25	1.000	0.00	-4.70	147,000	150,000	153,000
30	0.7920	0.13	-4.59	116,263	118,797	121,331
35	0.6308	0.28	-4.47	92,460	94,622	96,784
40	0.5052	0.45	-4.37	73,925	75,783	77,642
45	0.4068	0.63	-4.26	59,411	61,019	62,627
50	0.3292	0.83	-4.16	47,987	49,385	50,782
55	0.2678	1.04	-4.07	38,948	40,168	41,388
60	0.2189	1.26	-3.97	31,761	32,830	33,898
65	0.1797	1.48	-3.88	26,018	26,957	27,896
70	0.1482	1.72	-3.79	21,409	22,236	23,062
75	0.1228	1.96	-3.71	17,692	18,421	19,151
80	0.1022	2.21	-3.63	14,681	15,326	15,971
85	0.0854	2.46	-3.55	12,233	12,804	13,375
90	0.0716	2.72	-3.47	10,232	10,739	11,246
95	0.0603	2.98	-3.39	8,592	9,042	9,493
100	0.0509	3.25	-3.32	7,241	7,642	8,043
105	0.0432	3.52	-3.25	6,125	6,482	6,840
110	0.0368	3.79	-3.18	5,199	5,518	5,837
115	0.0314	4.06	-3.11	4,428	4,713	4,999
120	0.0269	4.33	-3.05	3,783	4,039	4,295
125	0.0232	4.61	-2.98	3,243	3,473	3,703
130	0.0200	4.89	-2.92	2,789	2,995	3,202
135	0.0173	5.16	-2.86	2,406	2,591	2,777
140	0.0150	5.44	-2.80	2,081	2,248	2,416
145	0.0130	5.72	-2.75	1,806	1,957	2,108
150	0.0114	6.00	-2.69	1,571	1,707	1,844