

NA Series

NTC Acuchip Thermistors with R-T curve accurately matched are interchangeable thermistors precisely designed for its high quality to provide accurate and stable Temperature sensing capability for temperature Measurement and/or compensation; presented in Small, epoxy encapsulated radial leaded assemblies, With various wires and housings for different Applications.

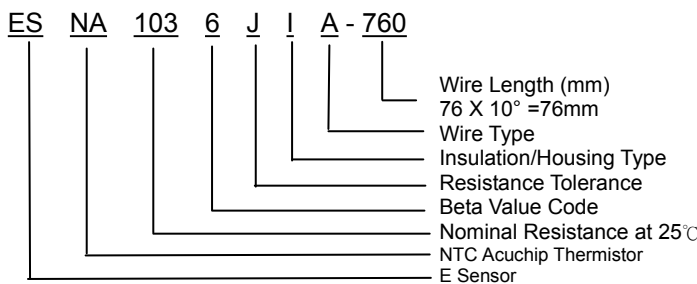
Beta Value Code

Code	1	2	3	4	5	6	7	8
B(°K) (0-50)	3108	3263	3422	3575	3811	3892	4143	3970

Nominal Resistance at 25°C :

The first two digits are significant figures.
The last digit specifies the number of zeros to follow.(10K Ω is illustrated)

PART NUMBER CODE



Resistance Tolerance:

F= ±1% ; G=±2% ; H=±3% ; J=±5% ; K=±10% ; L=±15%

CONFIGURATIONS AND DIMENSIONS

Wire		Dimensions
Type	Specifications	
A	32AWG Single Tinned Copper	Non-insulation Wire
B	26AWG Single Teflon Wire	Insulation Wire
C	30AWG Single Teflon Wire	Insulation Wire
D	24AWG Parallel PVC Wire	Insulation Wire
V	22AWG Single Teflon Wire	Insulation Wire
X	24AWG Parallel PVC Wire (Tin Plated)	Insulation Wire

SPECIFICATIONS

Part NO. NSA/NSB	Nominal Resistance At 25°C (Ohms)	Beta Value Code	Beta Value (° K)	a At 25°C (mA)
ES NA 1011□□□-□□□	100	1	3108	-3.5
ES NA 3011□□□-□□□	300	1	3108	-3.5
ES NA 1022□□□-□□□	1000	2	3263	-3.7
ES NA 1023□□□-□□□	1000	3	3422	-3.9
ES NA 2023□□□-□□□	2000	3	3422	-3.9
ES NA 5023□□□-□□□	5000	3	3422	-3.9
ES NA 1033□□□-□□□	10000	3	3422	-3.9
ES NA 1034□□□-□□□	10000	4	3575	-4.0
ES NA 2134□□□-□□□	21000	4	3575	-4.0
ES NA 1035□□□-□□□	10000	5	3811	-4.3
ES NA 1535□□□-□□□	15000	5	3811	-4.3
ES NA 2035□□□-□□□	20000	5	3811	-4.3
ES NA 2235□□□-□□□	22000	5	3811	-4.3
ES NA 2535□□□-□□□	25000	5	3811	-4.3
ES NA 3035□□□-□□□	30000	5	3811	-4.3
ES NA 1045□□□-□□□	100000	5	3811	-4.3
ES NA 1526□□□-□□□	1500	6	3892	-4.4
ES NA 2026□□□-□□□	2000	6	3892	-4.4
ES NA 2226□□□-□□□	2200	6	3892	-4.4
ES NA 2726□□□-□□□	2700	6	3892	-4.4
ES NA 3026□□□-□□□	3000	6	3892	-4.4
ES NA 3326□□□-□□□	3300	6	3892	-4.4
ES NA 3726□□□-□□□	3700	6	3892	-4.4
ES NA 4026□□□-□□□	4000	6	3892	-4.4
ES NA 4726□□□-□□□	4700	6	3892	-4.4
ES NA 5026□□□-□□□	5000	6	3892	-4.4
ES NA 1036□□□-□□□	10000	6	3892	-4.4
ES NA 1536□□□-□□□	15000	6	3892	-4.4
ES NA 2036□□□-□□□	20000	6	3892	-4.4
ES NA 5036□□□-□□□	50000	6	3892	-4.4
ES NA 1037□□□-□□□	10000	7	4143	-4.7
ES NA 2037□□□-□□□	20000	7	4143	-4.7
ES NA 5037□□□-□□□	50000	7	4143	-4.7
ES NA 1047□□□-□□□	100000	7	4143	-4.7

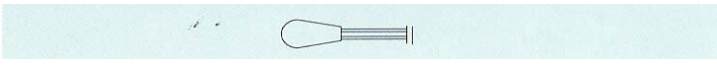
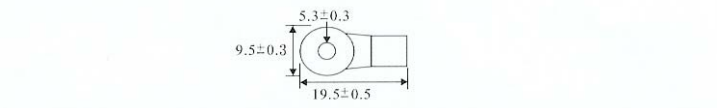
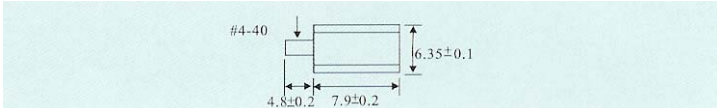
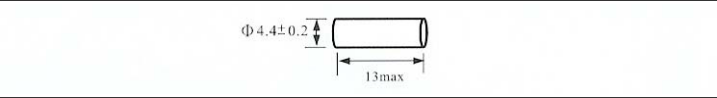
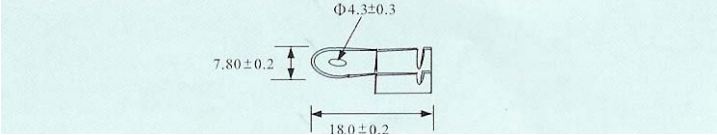
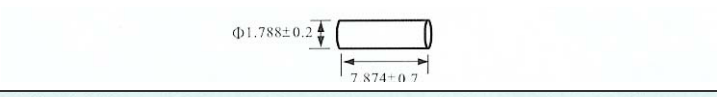
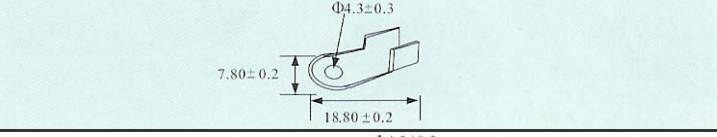
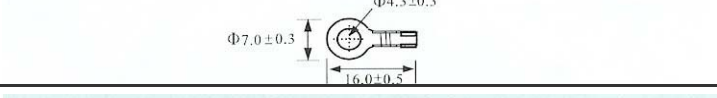
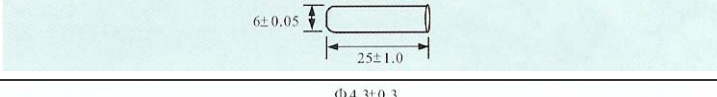
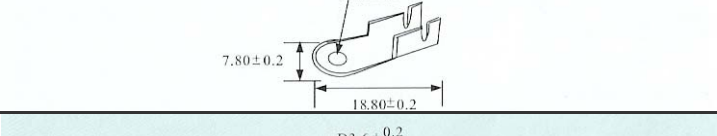
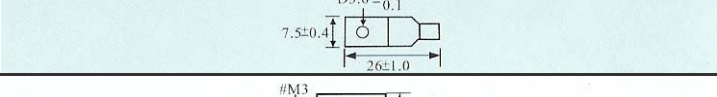
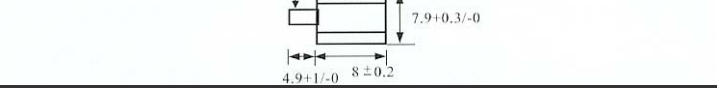
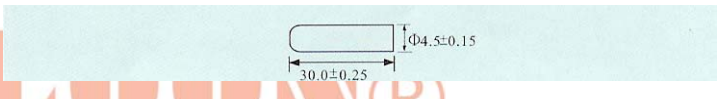
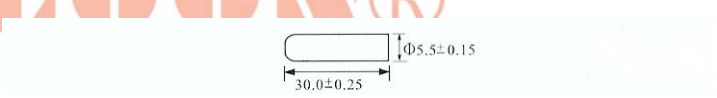
Maximum Power Rating : 75mW

RESISTANCE-TEMPERATURE CONVERSION TABLE (STANDARD CURVES)

Material BETA VALUE CODE	NA1 1	NA2 2	NA3 3	NA4 4	NA5 5	NA6 6	NA7 7	NA8 8
BETA (0 -50°C)	3108	3263	3422	3575	3811	3892	4143	3970
BETA (25-50°C)	3149	3307	3467	3636	3877	3935	4204	4032
BETA (0 -25°C)	3072	3225	3383	3523	3754	3855	4090	3917
BETA (25 -75°C)	3181	3337	3483	3679	3925	3967	4246	4077
BETA (25 -85°C)	3185	3348	3488	3694	3943	3978	4262	4093
BETA (25 -100°C)	3208	3362	3498	3716	3966	3991	4284	4116
BETA (25 -125°C)	-	3382	3498	3748	4004	4007	4320	4150
BETA (25 -100°C)	3166	3319	3462	3655	3900	3948	4223	4053

ALPHA@25°C	-3.5%/°C	-3.7%/°C	-3.9%/°C	-4.0%/°C	-4.3%/°C	-4.4%/°C	-4.7%/°C	-4.5%/°C
TEMP°C	RT/R25	RT/R25	RT/R25	RT/R25	RT/R25	RT/R25	RT/R25	RT/R25
-40	16.0700	18.6410	21.5100	23.9800	29.4900	33.6451	40.1550	34.5750
-35	12.4400	14.2310	16.2900	17.9200	21.6400	24.2661	28.6430	24.9620
-30	9.7040	10.9600	12.3300	13.5200	16.0300	17.6961	20.6400	18.2090
-25	7.6380	8.5110	9.4920	10.2900	11.9900	13.0411	15.0200	13.4140
-20	6.0530	6.6620	7.3070	7.8910	9.0400	9.7072	11.0340	9.9760
-15	4.8370	5.2550	5.7180	6.1020	6.8730	7.2951	8.1807	7.4860
-10	3.8900	4.1750	4.4760	4.7540	5.2670	5.5326	6.1187	5.6667
-5	3.1510	3.3410	3.5560	3.7310	4.0700	4.2326	4.6155	4.3253
0	2.5680	2.6910	2.8250	2.9490	3.1660	3.2650	3.5102	3.3278
5	2.1030	2.1820	2.2740	2.3460	2.4810	2.5391	2.6908	2.5800
10	1.7310	1.7800	1.8300	1.8790	1.9580	1.9899	2.0785	2.0149
15	1.4340	1.4600	1.4920	1.5130	1.5560	1.5711	1.6173	1.5847
20	1.1940	1.2050	1.2160	1.2260	1.2430	1.2492	1.2674	1.2548
25	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30	0.8410	0.8342	0.8267	0.8194	0.8090	0.8057	0.7942	0.8019
35	0.7113	0.6993	0.6890	0.6752	0.6580	0.6531	0.6348	0.6470
40	0.6040	0.5892	0.5742	0.5592	0.5383	0.5326	0.5105	0.5249
45	0.5153	0.4987	0.4832	0.4655	0.4427	0.4368	0.4129	0.4283
50	0.4417	0.4240	0.4067	0.3893	0.3657	0.3602	0.3359	0.3513
55	0.3800	0.3620	0.3456	0.3270	0.3036	0.2986	0.2748	0.2896
60	0.3280	0.3104	0.2937	0.2760	0.2533	0.2488	0.2259	0.2400
65	0.2850	0.2673	0.2519	0.2339	0.2122	0.2083	0.1867	0.1998
70	0.2480	0.2310	0.2160	0.1990	0.1786	0.1752	0.1550	0.1671
75	0.2160	0.2004	0.1868	0.1700	0.1510	0.1479	0.1293	0.1403
80	0.1890	0.1745	0.1615	0.1458	0.1281	0.1255	0.1084	0.1184
85	0.1670	0.1524	0.1409	0.1255	0.1091	0.1070	0.0912	0.1003
90	0.1470	0.1336	0.1229	0.1084	0.0933	0.0915	0.0771	0.0853
95	0.1300	0.1175	0.1089	0.0939	0.0801	0.0787	0.0654	0.0728
100	0.1150	0.1037	0.0946	0.0817	0.0690	0.0679	0.0557	0.0624
105		0.0917	0.0837	0.0713	0.0596	0.0588	0.0476	0.0536
110		0.0814	0.0740	0.0624	0.0517	0.0511	0.0408	0.0463
115		0.0725	0.0658	0.0547	0.0450	0.0445	0.0351	0.0401
120		0.0647	0.0585	0.0482	0.0392	0.0390	0.0303	0.0348
125		0.0579	0.0525	0.0425	0.0343	0.0342	0.0263	0.0303
130		0.0519	0.0471	0.0377	0.0301	0.0301	0.0228	0.0265
135		0.0467	0.0424	0.0334	0.0265	0.0266	0.0199	0.0232
140		0.0421	0.0382	0.0297	0.0234	0.0235	0.0173	0.0204
145		0.0380	0.0346	0.0265	0.0207	0.0209	0.0152	0.0180
150		0.0344	0.0314	0.0237	0.0183	0.0183	0.0133	0.0159

CONFIGURATIONS AND DIMENSIONS

Housing Type	Material	Dimensions (unit: mm)
1	Epoxy Resin	
2	Tinned Copper	
3	Aluminum	
4	polyacetal Sleeve	
5	Aluminum	
6	ABS	
7	Aluminum	
10	Tinned Brass	
11	Nickel-plate	
12	Nickel-plate	
14	Tin Plated Copper	
15	Aluminum	
16	Stainless Steel	
17	Stainless Steel	
18	Brass	