NTC Sensor Thermistors NA系列

ROHS series

NA SERIES
PART NUMBER CODE

NA 103 6 □ 1 A 5 - 760

- 760 — Wire Length (mm), 76 *10^0 =76mm
- 5 — Lead Free (ROHS)
- A — Wire Type
- 1 — Insulation/Housing Type
- □ — Resistance Tolerance
- 6 — Beta Value Code
- 103 — Nominal Resistance at 25℃
- NA — UEI NTC Chip Thermistor

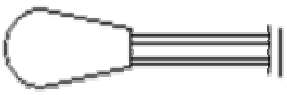
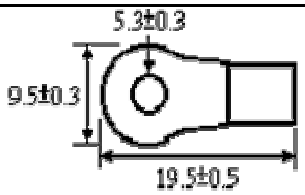
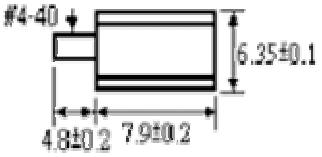
Resistance Tolerance : F =±1% ; G=±2% ; H=±3% ; J=±5%; K=±10%; L=±15%

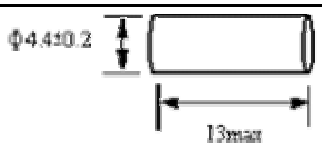
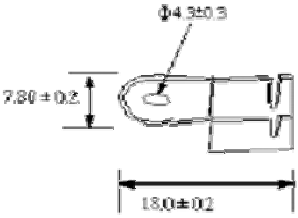
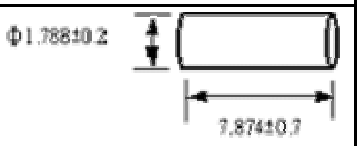
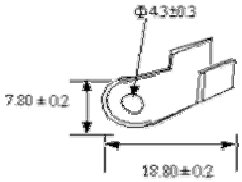
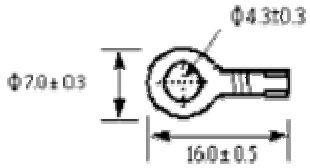
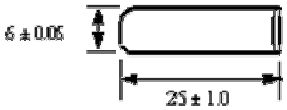
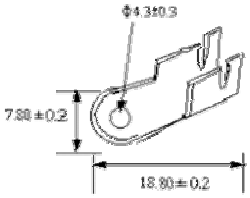
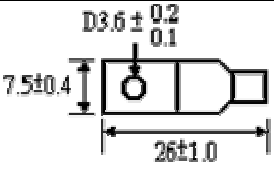
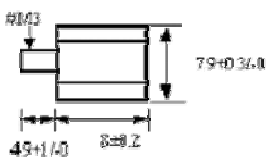
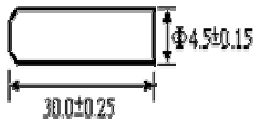
Nominal Resistance at 25℃ : The first two digits are significant figures. The last digit specifies the number of zeros to follow.(10KΩ is illustrated)

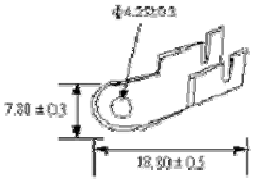
Beta Value Code(0-50℃)

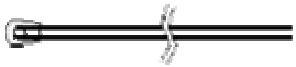
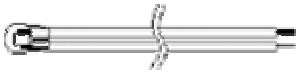
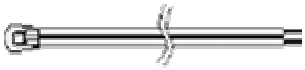
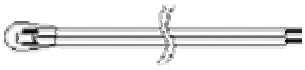
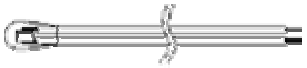
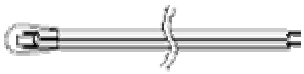
code	1	2	3	4	5	6	7	8
B(°K)	3108	3263	3422	3575	3811	3892	4143	3970

CONFIGURATIONS AND DIMENSIONS

Housing Type	Material	Dimensions(Unit:mm)
1	Epoxy Resin	
2	Tinned Copper	
3	Aluminium	

4	olyacetal Sleev	
5	Aluminium	
6	ABS	
7	Aluminium	
10	Tinned Brass	
11	Nickel - plate	
12	Nickel - plate	
14	Tin Plated Copper	
15	Aluminium	
16	Stainless Steel	

17	Stainless Steel	
18	Brass	

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

SPECIFICATIONS

Part No.	Nominal Resistance at 25℃(ohms)	Beta Value Code	Beta Value (0~50℃)(° K)	α at 25℃(%/℃)
NA 1011 □□□J □□□	100	1	3108	-3.5
NA 3011 □□□J □□□	300	1	3108	-3.5
NA 1022 □□□J □□□	1,000	2	3263	-3.7
NA 1023 □□□J □□□	1,000	3	3422	-3.9
NA 2023 □□□J □□□	2,000	3	3422	-3.9
NA 3023 □□□J □□□	5,000	3	3422	-3.9
NA 1033 □□□J □□□	10,000	3	3422	-3.9
NA 1034 □□□J □□□	10,000	4	3575	-4

NA 2154 □□□J □□□	21,000	4	3575	-4
NA 1035 □□□J □□□	10,000	5	3811	-4.3
NA 1535 □□□J □□□	15,000	5	3811	-4.3
NA 2035 □□□J □□□	20,000	5	3811	-4.3
NA 2235 □□□J □□□	22,000	5	3811	-4.3
NA 2535 □□□J □□□	25,000	5	3811	-4.3
NA 3035 □□□J □□□	30,000	5	3811	-4.3
NA 1045 □□□J □□□	100,000	5	3811	-4.3
NA 1520 □□□J □□□	1,500	6	3892	-4.4
NA 2020 □□□J □□□	2,000	6	3892	-4.4
NA 2220 □□□J □□□	2,200	6	3892	-4.4
NA 2720 □□□J □□□	2,700	6	3892	-4.4
NA 3020 □□□J □□□	3,000	6	3892	-4.4
NA 3320 □□□J □□□	3,300	6	3892	-4.4
NA 3720 □□□J □□□	3,700	6	3892	-4.4
NA 4020 □□□J □□□	4,000	6	3892	-4.4
NA 4720 □□□J □□□	4,700	6	3892	-4.4
NA 5020 □□□J □□□	5,000	6	3892	-4.4
NA 1030 □□□J □□□	10,000	6	3892	-4.4
NA 1530 □□□J □□□	15,000	6	3892	-4.4
NA 2030 □□□J □□□	20,000	6	3892	-4.4
NA 5030 □□□J □□□	50,000	6	3892	-4.4
NA 1037 □□□J □□□	10,000	7	4143	-4.7
NA 2037 □□□J □□□	20,000	7	4143	-4.7
NA 5037 □□□J □□□	50,000	7	4143	-4.7
NA 1047 □□□J □□□	100,000	7	4143	-4.7
NA 1547 □□□J □□□	150,000	7	4143	-4.7
NA 1048 □□□J □□□	100,000	8	3970	-4.5
NA 1039 □□□J □□□	100,000	9	3342	-3.8
NA 2039 □□□J □□□	200,000	9	3342	-3.8
NA 4039 □□□J □□□	400,000	9	3342	-3.8

最大功率 **:75mW**

* Please inquire to our sales people for other spec

BETA VALUE CODE	1	2	3	4	5	6	7	8	9
BETA(0/50˚C)	3108	3263	3422	3575	3811	3892	4143	3970	3342
α @ 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	-3.8%/˚C
TEMP˚C	RT/R25	RT/R25	RT/R25	RT/R25	RT/R25	RT/R25	RT/R25	RT/R25	RT/R25
-40	16.070	18.641	21.51	23.98	29.49	33.6451	40.155	34.5750	20.0755
-35	12.440	14.231	16.29	17.92	21.64	24.2661	28.643	24.9620	15.2605
-30	9.704	10.960	12.33	13.52	16.03	17.6961	20.640	18.2090	11.6450
-25	7.638	8.511	9.492	10.29	11.99	13.0411	15.020	13.4140	9.0015
-20	6.053	6.662	7.307	7.891	9.040	9.7072	11.034	9.9760	6.9845
-15	4.837	5.255	5.718	6.102	6.873	7.2951	8.1807	7.4860	5.4865
-10	3.890	4.175	4.476	4.754	5.267	5.5326	6.1187	5.6667	4.3255
-5	3.151	3.341	3.556	3.731	4.070	4.2326	4.6155	4.3253	3.4485
0	2.568	2.691	2.825	2.949	3.166	3.2650	3.5102	3.3278	2.7580
5	2.103	2.182	2.274	2.346	2.481	2.5391	2.6908	2.5800	2.2280
10	1.731	1.780	1.830	1.879	1.958	1.9899	2.0785	2.0149	1.8050
15	1.434	1.460	1.492	1.513	1.556	1.5711	1.6173	1.5847	1.4760
20	1.194	1.205	1.216	1.226	1.243	1.2492	1.2674	1.2548	1.2105
25	1.0000	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	0.80568	0.79422	0.8019	0.8305
35	0.7113	0.6993	0.6890	0.6752	0.6580	0.65314	0.63480	0.6470	0.6942
40	0.6040	0.5892	0.5742	0.5592	0.5383	0.53264	0.51048	0.5249	0.5817
45	0.5153	0.4987	0.4382	0.4655	0.4427	0.43684	0.41292	0.4283	0.4910
50	0.4417	0.4240	0.4067	0.3893	0.3657	0.36023	0.33591	0.3513	0.4154
55	0.3800	0.3620	0.3456	0.3270	0.3036	0.29861	0.27475	0.2896	0.3538
60	0.3280	0.3104	0.2937	0.2760	0.2533	0.24878	0.22590	0.2400	0.3021
65	0.2850	0.2673	0.2519	0.2339	0.2122	0.20827	0.18668	0.1998	0.2596
70	0.2480	0.2310	0.2160	0.1990	0.1786	0.17516	0.15502	0.1671	0.2235
75	0.2160	0.2004	0.1868	0.1700	0.1510	0.14793	0.12932	0.1403	0.1936
80	0.1890	0.1745	0.1615	0.1458	0.1281	0.12552	0.10837	0.1184	0.1680
85	0.1670	0.1524	0.1409	0.1255	0.1091	0.10697	0.091208	0.1003	0.1467
90	0.1470	0.1336	0.1229	0.1084	0.09330	0.091543	0.077077	0.0853	0.1283
95	0.1300	0.1175	0.1089	0.09393	0.08007	0.078663	0.065394	0.0728	0.1132
100	0.1150	0.1037	0.0946	0.08168	0.06900	0.067860	0.055693	0.0624	0.0992
105		0.0917	0.0837	0.07126	0.05963	0.058759	0.047604	0.0536	0.0877
110		0.0814	0.0740	0.06237	0.05170	0.051059	0.040829	0.0463	0.0777
115		0.0725	0.0656	0.05473	0.04497	0.044525	0.035137	0.0401	0.0692
120		0.0647	0.0585	0.04819	0.03920	0.038957	0.030334	0.0348	0.0616
125		0.0579	0.0525	0.04254	0.03430	0.034193	0.026267	0.0303	0.0552
130		0.0519	0.0471	0.03765	0.03010	0.030104	0.022811	0.0265	0.0495
135		0.0467	0.0424	0.03340	0.02649	0.026583	0.019865	0.0232	0.0446
140		0.0421	0.0382	0.02973	0.02340	0.023537	0.017344	0.0204	0.0402
145		0.0380	0.0346	0.02651	0.02068	0.020899	0.015161	0.0180	0.0363
150		0.0344	0.0314	0.02371	0.01830	0.018609	0.013319	0.0159	0.0329

SPECIFICATIONS

Part No.	Nominal Resistance at 25℃ (ohms)	Beta Value **Code**	Beta Value **(0-50℃)** (°K)	α **at 25℃** **(%/℃)**
NA 1011 □□□-□□□	100	1	3108	-3.5
NA 3011 □□□-□□□	300	1	3108	-3.5
NA 1022 □□□-□□□	1,000	2	3263	-3.7
NA 1023 □□□-□□□	1,000	3	3422	-3.9
NA 2023 □□□-□□□	2,000	3	3422	-3.9
NA 5023 □□□-□□□	5,000	3	3422	-3.9
NA 1033 □□□-□□□	10,000	3	3422	-3.9
NA 1034 □□□-□□□	10,000	4	3575	-4.0
NA 2134 □□□-□□□	21,000	4	3575	-4.0
NA 1035 □□□-□□□	10,000	5	3811	-4.3
NA 1535 □□□-□□□	15,000	5	3811	-4.3
NA 2035 □□□-□□□	20,000	5	3811	-4.3
NA 2235 □□□-□□□	22,000	5	3811	-4.3
NA 2535 □□□-□□□	25,000	5	3811	-4.3
NA 3035 □□□-□□□	30,000	5	3811	-4.3
NA 1045 □□□-□□□	100,000	5	3811	-4.3
NA 1526 □□□-□□□	1,500	6	3892	-4.4
NA 2026 □□□-□□□	2,000	6	3892	-4.4
NA 2226 □□□-□□□	2,200	6	3892	-4.4
NA 2726 □□□-□□□	2,700	6	3892	-4.4
NA 3026 □□□-□□□	3,000	6	3892	-4.4
NA 3326 □□□-□□□	3,300	6	3892	-4.4
NA 3726 □□□-□□□	3,700	6	3892	-4.4
NA 4026 □□□-□□□	4,000	6	3892	-4.4
NA 4726 □□□-□□□	4,700	6	3892	-4.4
NA 5026 □□□-□□□	5,000	6	3892	-4.4
NA 1036 □□□-□□□	10,000	6	3892	-4.4
NA 1536 □□□-□□□	15,000	6	3892	-4.4
NA 2036 □□□-□□□	20,000	6	3892	-4.4
NA 5036 □□□-□□□	50,000	6	3892	-4.4
NA 1037 □□□-□□□	10,000	7	4143	-4.7
NA 2037 □□□-□□□	20,000	7	4143	-4.7
NA 5037 □□□-□□□	50,000	7	4143	-4.7
NA 1047 □□□-□□□	100,000	7	4143	-4.7
NA 1547 □□□-□□□	150,000	7	4143	-4.7
NA 1048 □□□-□□□	100,000	8	3970	-4.5
NA 1039 □□□-□□□	10,000	9	3342	-3.8
NA 2039 □□□-□□□	20,000	9	3342	-3.8
NA 4039 □□□-□□□	40,000	9	3342	-3.8

Maximum Power Rating : 75mW

* Please inquire to our sales people for other spec..

Beta Value Code :

code	1	2	3	4	5	6	7	8	9
B(°K)	3108	3263	3422	3575	3811	3892	4143	3970	3342

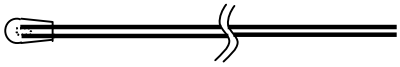
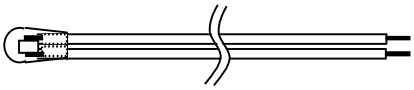
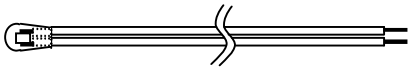
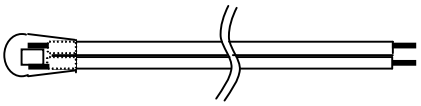
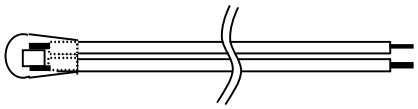
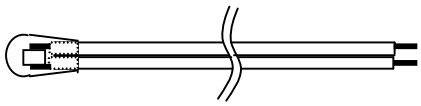
Nominal Resistance at 25℃ :

The first two digits are significant figures.

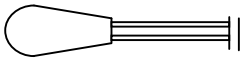
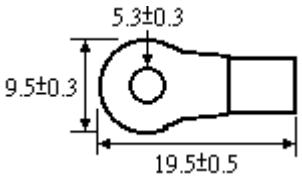
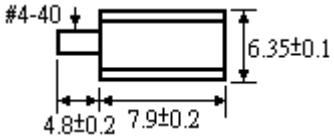
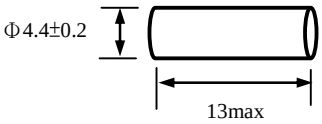
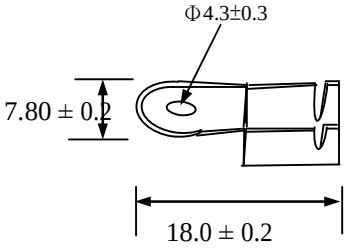
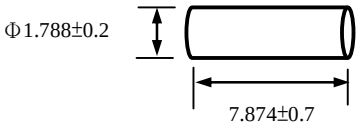
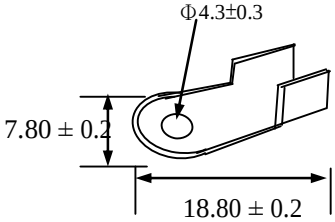
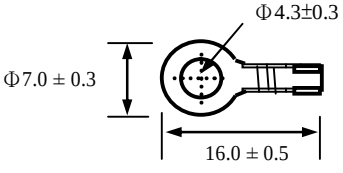
The last digit specifies the number of

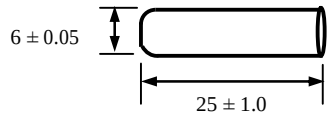
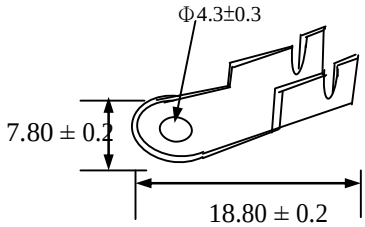
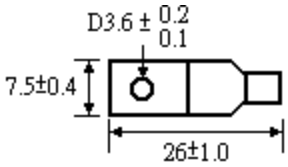
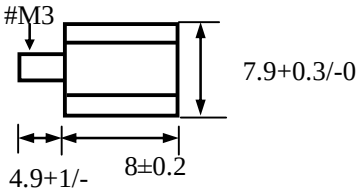
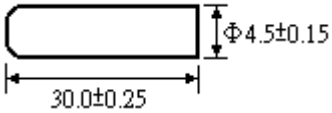
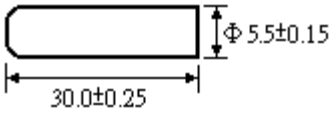
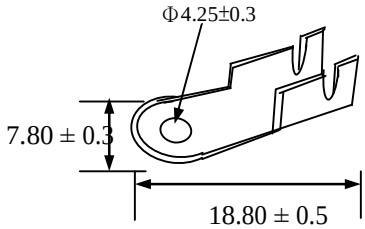
zeros to follow.(10KΩ is illustrated)

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 

CONFIGURATIONS AND DIMENSIONS

Housing Type	Material	Dimensions (Unit:mm)
1	Epoxy Resin	
2	Tinned Copper	
3	Aluminium	
4	olyacetal Sleev	
5	Aluminium	
6	ABS	
7	Aluminium	
10	Tinned Brass	
		

11	Nickel - plate	
12	Nickel - plate	
14	Tin Plated Copper	
15	Aluminium	
16	Stainless Steel	
17	Stainless Steel	
18	Brass	

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	NA9 9
BETA (0-50℃)	3108	3263	3422	3575	3811	3892	4143	3970	3342
BETA (25-50℃)	3149	3307	3467	3636	3877	3935	4204	4032	3386
BETA (0-25℃)	3072	3225	3383	3523	3754	3855	4090	3917	3305
BETA (25-75℃)	3181	3337	3483	3679	3925	3967	4246	4077	3409
BETA (25-85℃)	3185	3348	3488	3694	3943	3978	4262	4093	3417
BETA (25-100℃)	3208	3362	3498	3716	3966	3991	4284	4116	3428
BETA (25-125℃)	-	3382	3498	3748	4004	4007	4320	4150	3439
BETA (0-100℃)	3166	3319	3462	3655	3900	3948	4223	4053	3390
ALPHA @25℃	-3.5 %/℃	-3.7 %/℃	-3.9 %/℃	-4.0 %/℃	-4.3 %/℃	-4.4 %/℃	-4.7 %/℃	-4.5 %/℃	-3.8 %/℃
TEMP ℃	RT/R25	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	20.0755
-35	12.4400	14.2310	16.2900	17.9200	21.6400	24.2661	28.6430	24.9620	15.2605
-30	9.7040	10.9600	12.3300	13.5200	16.0300	17.6961	20.6400	18.2090	11.6450
-25	7.6380	8.5110	9.4920	10.2900	11.9900	13.0411	15.0200	13.4140	9.0015
-20	6.0530	6.6620	7.3070	7.8910	9.0400	9.7072	11.0340	9.9760	6.9845
-15	4.8370	5.2550	5.7180	6.1020	6.8730	7.2951	8.1807	7.4860	5.4865
-10	3.8900	4.1750	4.4760	4.7540	5.2670	5.5326	6.1187	5.6667	4.3255
-5	3.1510	3.3410	3.5560	3.7310	4.0700	4.2326	4.6155	4.3253	3.4485
0	2.5680	2.6910	2.8250	2.9490	3.1660	3.2650	3.5102	3.3278	2.7580
5	2.1030	2.1820	2.2740	2.3460	2.4810	2.5391	2.6908	2.5800	2.2280
10	1.7310	1.7800	1.8300	1.8790	1.9580	1.9899	2.0785	2.0149	1.8050
15	1.4340	1.4600	1.4920	1.5130	1.5560	1.5711	1.6173	1.5847	1.4760
20	1.1940	1.2050	1.2160	1.2260	1.2430	1.2492	1.2674	1.2548	1.2105
25	1.0000	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	0.8305
35	0.7113	0.6993	0.6890	0.6752	0.6580	0.6531	0.6348	0.6470	0.6942
40	0.6040	0.5892	0.5742	0.5592	0.5383	0.5326	0.5105	0.5249	0.5817
45	0.5153	0.4987	0.4832	0.4655	0.4427	0.4368	0.4129	0.4283	0.4910
50	0.4417	0.4240	0.4067	0.3893	0.3657	0.3602	0.3359	0.3513	0.4154
55	0.3800	0.3620	0.3456	0.3270	0.3036	0.2986	0.2748	0.2896	0.3538
60	0.3280	0.3104	0.2937	0.2760	0.2533	0.2488	0.2259	0.2400	0.3021
65	0.2850	0.2673	0.2519	0.2339	0.2122	0.2083	0.1867	0.1998	0.2596
70	0.2480	0.2310	0.2160	0.1990	0.1786	0.1752	0.1550	0.1671	0.2235
75	0.2160	0.2004	0.1868	0.1700	0.1510	0.1479	0.1293	0.1403	0.1936
80	0.1890	0.1745	0.1615	0.1458	0.1281	0.1255	0.1084	0.1184	0.1680
85	0.1670	0.1524	0.1409	0.1255	0.1091	0.1070	0.0912	0.1003	0.1467
90	0.1470	0.1336	0.1229	0.1084	0.0933	0.0915	0.0771	0.0853	0.1283
95	0.1300	0.1175	0.1089	0.0939	0.0801	0.0787	0.0654	0.0728	0.1132
100	0.1150	0.1037	0.0946	0.0817	0.0690	0.0679	0.0557	0.0624	0.0992
105		0.0917	0.0837	0.0713	0.0596	0.0588	0.0476	0.0536	0.0877
110		0.0814	0.0740	0.0624	0.0517	0.0511	0.0408	0.0463	0.0777
115		0.0725	0.0658	0.0547	0.0450	0.0445	0.0351	0.0401	0.0692
120		0.0647	0.0585	0.0482	0.0392	0.0390	0.0303	0.0348	0.0616
125		0.0579	0.0525	0.0425	0.0343	0.0342	0.0263	0.0303	0.0552
130		0.0519	0.0471	0.0377	0.0301	0.0301	0.0228	0.0265	0.0495
135		0.0467	0.0424	0.0334	0.0265	0.0266	0.0199	0.0232	0.0446
140		0.0421	0.0382	0.0297	0.0234	0.0235	0.0173	0.0204	0.0402
145		0.0380	0.0346	0.0265	0.0207	0.0209	0.0152	0.0180	0.0363
150		0.0344	0.0314	0.0237	0.0183	0.0186	0.0133	0.0159	0.0329