

HST	SPECIFICATION	NTC THERMISTOR
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**RESISTANCE-TEMPERATURE CHARACTERISTICS**

**PART NO.: 11S0805104HH**

$R$  100000 ohms  $\pm$  3 %  
 $B$  4000 °K  $\pm$  2 %

Temperature (°C)	Resistance ( $\Omega$ )			Temperture Coef. (%/°C)	Resist. Tolerance (%)		Temp. Tolerance (°C)	
	MIN.	CENTER	MAX.		MIN.	MAX.	MIN.	MAX.
-40.0	2845366	3142770	3468136	-6.49	-9.46	10.35	-1.60	1.46
-39.0	2670743	2946085	3246889	-6.44	-9.35	10.21	-1.59	1.45
-38.0	2507941	2762950	3041149	-6.40	-9.23	10.07	-1.57	1.44
-37.0	2356087	2592349	2849736	-6.35	-9.11	9.93	-1.56	1.43
-36.0	2214380	2433349	2671565	-6.31	-9.00	9.79	-1.55	1.43
-35.0	2082080	2285092	2505642	-6.26	-8.88	9.65	-1.54	1.42
-34.0	1958506	2146787	2351051	-6.22	-8.77	9.51	-1.53	1.41
-33.0	1843032	2017708	2206951	-6.18	-8.66	9.38	-1.52	1.40
-32.0	1735078	1897185	2072569	-6.14	-8.54	9.24	-1.51	1.39
-31.0	1634111	1784599	1947191	-6.10	-8.43	9.11	-1.49	1.38
-30.0	1539636	1679382	1830162	-6.06	-8.32	8.98	-1.48	1.37
-29.0	1451199	1581008	1720877	-6.02	-8.21	8.85	-1.47	1.36
-28.0	1368379	1488992	1618779	-5.98	-8.10	8.72	-1.46	1.36
-27.0	1290786	1402888	1523353	-5.94	-7.99	8.59	-1.45	1.35
-26.0	1218060	1322280	1434125	-5.90	-7.88	8.46	-1.43	1.34
-25.0	1149867	1246786	1350657	-5.86	-7.77	8.33	-1.42	1.33
-24.0	1085900	1176053	1272543	-5.82	-7.67	8.20	-1.41	1.32
-23.0	1025873	1109753	1199411	-5.78	-7.56	8.08	-1.40	1.31
-22.0	969520	1047583	1130914	-5.75	-7.45	7.95	-1.38	1.30
-21.0	916595	989264	1066732	-5.71	-7.35	7.83	-1.37	1.29
-20.0	866871	934533	1006570	-5.67	-7.24	7.71	-1.36	1.28
-19.0	820136	883151	950152	-5.64	-7.14	7.59	-1.35	1.27
-18.0	776194	834894	897225	-5.60	-7.03	7.47	-1.33	1.26
-17.0	734863	789555	847553	-5.57	-6.93	7.35	-1.32	1.24
-16.0	695972	746940	800919	-5.53	-6.82	7.23	-1.31	1.23
-15.0	659364	706871	757119	-5.50	-6.72	7.11	-1.29	1.22
-14.0	624893	669183	715967	-5.46	-6.62	6.99	-1.28	1.21
-13.0	592422	633720	677286	-5.43	-6.52	6.87	-1.27	1.20
-12.0	561824	600339	640917	-5.39	-6.42	6.76	-1.25	1.19
-11.0	532981	568906	606706	-5.36	-6.31	6.64	-1.24	1.18
-10.0	505782	539298	574516	-5.33	-6.21	6.53	-1.23	1.17
-9.0	480126	511397	544216	-5.30	-6.11	6.42	-1.21	1.15
-8.0	455916	485098	515684	-5.26	-6.02	6.31	-1.20	1.14
-7.0	433063	460299	488808	-5.23	-5.92	6.19	-1.18	1.13
-6.0	411483	436906	463482	-5.20	-5.82	6.08	-1.17	1.12
-5.0	391100	414833	439611	-5.17	-5.72	5.97	-1.16	1.11
-4.0	371840	393998	417101	-5.14	-5.62	5.86	-1.14	1.09

## RESISTANCE-TEMPERATURE CHARACTERISTICS

PART NO.: 11S0805104HH

4000

<b>R</b>	100000	ohms ±	3	%
<b>B</b>	4000	°K ±	2	%

Temperature (°C)	Resistance (Ω)			Temperature Coef. (%/°C)	Resist. Tolerance (%)		Temp. Tolerance (°C)	
	MIN.	CENTER	MAX.		MIN.	MAX.	MIN.	MAX.
-3.0	353635	374325	395868	-5.11	-5.53	5.76	-1.13	1.08
-2.0	336422	355742	375834	-5.08	-5.43	5.65	-1.11	1.07
-1.0	320142	338185	356923	-5.05	-5.34	5.54	-1.10	1.06
0.0	304740	321591	339068	-5.02	-5.24	5.43	-1.08	1.04
1.0	290163	305901	322203	-4.99	-5.15	5.33	-1.07	1.03
2.0	276362	291063	306270	-4.96	-5.05	5.22	-1.05	1.02
3.0	263294	277025	291210	-4.93	-4.96	5.12	-1.04	1.01
4.0	250914	263740	276973	-4.90	-4.86	5.02	-1.02	0.99
5.0	239183	251165	263509	-4.87	-4.77	4.91	-1.01	0.98
6.0	228065	239256	250771	-4.84	-4.68	4.81	-0.99	0.97
7.0	217522	227976	238718	-4.82	-4.59	4.71	-0.98	0.95
8.0	207524	217289	227308	-4.79	-4.49	4.61	-0.96	0.94
9.0	198039	207159	216505	-4.76	-4.40	4.51	-0.95	0.92
10.0	189038	197556	206272	-4.73	-4.31	4.41	-0.93	0.91
11.0	180493	188449	196578	-4.71	-4.22	4.31	-0.92	0.90
12.0	172381	179810	187390	-4.68	-4.13	4.22	-0.90	0.88
13.0	164675	171612	178680	-4.65	-4.04	4.12	-0.89	0.87
14.0	157355	163831	170421	-4.63	-3.95	4.02	-0.87	0.85
15.0	150399	156444	162586	-4.60	-3.86	3.93	-0.85	0.84
16.0	143786	149429	155153	-4.58	-3.78	3.83	-0.84	0.83
17.0	137499	142765	148098	-4.55	-3.69	3.74	-0.82	0.81
18.0	131519	136432	141401	-4.52	-3.60	3.64	-0.80	0.80
19.0	125831	130413	135041	-4.50	-3.51	3.55	-0.79	0.78
20.0	120418	124691	129000	-4.47	-3.43	3.46	-0.77	0.77
21.0	115266	119250	123261	-4.45	-3.34	3.36	-0.76	0.75
22.0	110361	114074	117806	-4.43	-3.26	3.27	-0.74	0.74
23.0	105689	109149	112620	-4.40	-3.17	3.18	-0.72	0.72
24.0	101240	104462	107690	-4.38	-3.08	3.09	-0.71	0.70
25.0	97000	100000	103000	-4.35	-3.00	3.00	-0.69	0.69
26.0	92798	95751	98710	-4.33	-3.08	3.09	-0.71	0.71
27.0	88800	91705	94620	-4.31	-3.17	3.18	-0.74	0.74
28.0	84994	87850	90720	-4.28	-3.25	3.27	-0.76	0.76
29.0	81370	84176	87000	-4.26	-3.33	3.36	-0.79	0.78
30.0	77919	80674	83452	-4.24	-3.42	3.44	-0.81	0.81
31.0	74631	77336	80067	-4.21	-3.50	3.53	-0.84	0.83
32.0	71499	74153	76835	-4.19	-3.58	3.62	-0.86	0.85
33.0	68514	71116	73751	-4.17	-3.66	3.70	-0.89	0.88

## RESISTANCE-TEMPERATURE CHARACTERISTICS

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4000

<b>R</b>	100000	ohms ±	3	%
<b>B</b>	4000	°K ±	2	%

Temperature (°C)	Resistance (Ω)			Temperture Coef. (%/°C)	Resist. Tolerance (%)		Temp. Tolerance (°C)	
	MIN.	CENTER	MAX.		MIN.	MAX.	MIN.	MAX.
34.0	65668	68219	70805	-4.15	-3.74	3.79	-0.91	0.90
35.0	62955	65454	67992	-4.13	-3.82	3.88	-0.94	0.93
36.0	60367	62815	65304	-4.10	-3.90	3.96	-0.97	0.95
37.0	57898	60295	62736	-4.08	-3.98	4.05	-0.99	0.97
38.0	55542	57889	60281	-4.06	-4.05	4.13	-1.02	1.00
39.0	53294	55591	57935	-4.04	-4.13	4.22	-1.04	1.02
40.0	51147	53395	55692	-4.02	-4.21	4.30	-1.07	1.05
41.0	49098	51297	53546	-4.00	-4.29	4.38	-1.10	1.07
42.0	47141	49291	51493	-3.98	-4.36	4.47	-1.12	1.10
43.0	45271	47374	49529	-3.96	-4.44	4.55	-1.15	1.12
44.0	43484	45540	47650	-3.94	-4.51	4.63	-1.18	1.15
45.0	41777	43786	45851	-3.92	-4.59	4.72	-1.20	1.17
46.0	40145	42108	44128	-3.90	-4.66	4.80	-1.23	1.20
47.0	38584	40503	42479	-3.88	-4.74	4.88	-1.26	1.22
48.0	37092	38966	40899	-3.86	-4.81	4.96	-1.29	1.25
49.0	35664	37495	39386	-3.84	-4.88	5.04	-1.31	1.27
50.0	34298	36087	37935	-3.82	-4.96	5.12	-1.34	1.30
51.0	32991	34738	36545	-3.80	-5.03	5.20	-1.37	1.32
52.0	31740	33446	35213	-3.78	-5.10	5.28	-1.40	1.35
53.0	30542	32209	33935	-3.76	-5.17	5.36	-1.43	1.38
54.0	29396	31022	32710	-3.74	-5.24	5.44	-1.45	1.40
55.0	28297	29886	31535	-3.72	-5.32	5.52	-1.48	1.43
56.0	27245	28796	30407	-3.71	-5.39	5.60	-1.51	1.45
57.0	26237	27751	29326	-3.69	-5.46	5.67	-1.54	1.48
58.0	25271	26749	28287	-3.67	-5.52	5.75	-1.57	1.51
59.0	24345	25787	27291	-3.65	-5.59	5.83	-1.60	1.53
60.0	23457	24865	26334	-3.63	-5.66	5.91	-1.63	1.56
61.0	22606	23980	25415	-3.62	-5.73	5.98	-1.66	1.59
62.0	21789	23131	24532	-3.60	-5.80	6.06	-1.68	1.61
63.0	21006	22315	23684	-3.58	-5.87	6.14	-1.71	1.64
64.0	20255	21532	22870	-3.56	-5.93	6.21	-1.74	1.67
65.0	19533	20780	22087	-3.55	-6.00	6.29	-1.77	1.69
66.0	18841	20058	21335	-3.53	-6.07	6.36	-1.80	1.72
67.0	18177	19364	20611	-3.51	-6.13	6.44	-1.83	1.75
68.0	17539	18698	19916	-3.49	-6.20	6.51	-1.86	1.77
69.0	16926	18057	19247	-3.48	-6.26	6.59	-1.89	1.80
70.0	16338	17442	18603	-3.46	-6.33	6.66	-1.92	1.83

## RESISTANCE-TEMPERATURE CHARACTERISTICS

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4000

<b>R</b>	100000	ohms ±	3	%
<b>B</b>	4000	°K ±	2	%

Temperature (°C)	Resistance (Ω)			Temperature Coef. (%/°C)	Resist. Tolerance (%)		Temp. Tolerance (°C)	
	MIN.	CENTER	MAX.		MIN.	MAX.	MIN.	MAX.
71.0	15772	16850	17984	-3.44	-6.39	6.73	-1.96	1.86
72.0	15229	16280	17389	-3.43	-6.46	6.81	-1.99	1.88
73.0	14707	15733	16816	-3.41	-6.52	6.88	-2.02	1.91
74.0	14205	15207	16264	-3.40	-6.59	6.95	-2.05	1.94
75.0	13723	14700	15733	-3.38	-6.65	7.03	-2.08	1.97
76.0	13259	14213	15222	-3.36	-6.71	7.10	-2.11	2.00
77.0	12812	13744	14729	-3.35	-6.77	7.17	-2.14	2.02
78.0	12383	13292	14255	-3.33	-6.84	7.24	-2.17	2.05
79.0	11970	12857	13798	-3.32	-6.90	7.31	-2.21	2.08
80.0	11573	12439	13358	-3.30	-6.96	7.38	-2.24	2.11
81.0	11191	12036	12933	-3.29	-7.02	7.46	-2.27	2.14
82.0	10823	11648	12524	-3.27	-7.08	7.53	-2.30	2.17
83.0	10468	11274	12130	-3.26	-7.14	7.60	-2.33	2.19
84.0	10127	10914	11750	-3.24	-7.20	7.67	-2.37	2.22
85.0	9799	10566	11384	-3.23	-7.26	7.74	-2.40	2.25
86.0	9482	10232	11030	-3.21	-7.32	7.80	-2.43	2.28
87.0	9178	9909	10689	-3.20	-7.38	7.87	-2.46	2.31
88.0	8884	9598	10360	-3.18	-7.44	7.94	-2.50	2.34
89.0	8601	9298	10043	-3.17	-7.50	8.01	-2.53	2.37
90.0	8328	9009	9737	-3.15	-7.56	8.08	-2.56	2.40
91.0	8065	8730	9441	-3.14	-7.62	8.15	-2.60	2.43
92.0	7812	8461	9156	-3.12	-7.67	8.22	-2.63	2.46
93.0	7567	8201	8881	-3.11	-7.73	8.28	-2.66	2.49
94.0	7331	7951	8615	-3.10	-7.79	8.35	-2.70	2.52
95.0	7104	7709	8358	-3.08	-7.85	8.42	-2.73	2.55
96.0	6885	7475	8110	-3.07	-7.90	8.48	-2.77	2.58
97.0	6673	7250	7870	-3.05	-7.96	8.55	-2.80	2.61
98.0	6469	7032	7638	-3.04	-8.02	8.62	-2.83	2.64
99.0	6272	6822	7415	-3.03	-8.07	8.68	-2.87	2.67
100.0	6081	6619	7198	-3.01	-8.13	8.75	-2.90	2.70
101.0	5898	6423	6989	-3.00	-8.18	8.81	-2.94	2.73
102.0	5720	6234	6787	-2.99	-8.24	8.88	-2.97	2.76
103.0	5549	6051	6592	-2.97	-8.29	8.94	-3.01	2.79
104.0	5384	5874	6403	-2.96	-8.35	9.01	-3.04	2.82
105.0	5224	5703	6220	-2.95	-8.40	9.07	-3.08	2.85
106.0	5069	5538	6043	-2.93	-8.45	9.14	-3.11	2.88
107.0	4920	5378	5872	-2.92	-8.51	9.20	-3.15	2.91

## RESISTANCE-TEMPERATURE CHARACTERISTICS

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4000

R	100000	ohms ±	3	%
B	4000	°K ±	2	%

Temperature (°C)	Resistance (Ω)			Temperature Coef. (%/°C)	Resist. Tolerance (%)		Temp. Tolerance (°C)	
	MIN.	CENTER	MAX.		MIN.	MAX.	MIN.	MAX.
108.0	4776	5223	5707	-2.91	-8.56	9.26	-3.18	2.94
109.0	4637	5074	5547	-2.90	-8.61	9.33	-3.22	2.97
110.0	4502	4929	5392	-2.88	-8.67	9.39	-3.26	3.01
111.0	4372	4789	5242	-2.87	-8.72	9.45	-3.29	3.04
112.0	4246	4654	5097	-2.86	-8.77	9.52	-3.33	3.07
113.0	4124	4523	4956	-2.85	-8.82	9.58	-3.36	3.10
114.0	4006	4396	4820	-2.83	-8.88	9.64	-3.40	3.13
115.0	3892	4274	4689	-2.82	-8.93	9.70	-3.44	3.16
116.0	3782	4155	4561	-2.81	-8.98	9.77	-3.47	3.19
117.0	3675	4040	4437	-2.80	-9.03	9.83	-3.51	3.23
118.0	3572	3929	4317	-2.79	-9.08	9.89	-3.55	3.26
119.0	3472	3821	4201	-2.77	-9.13	9.95	-3.59	3.29
120.0	3376	3717	4089	-2.76	-9.18	10.01	-3.62	3.32
121.0	3282	3616	3980	-2.75	-9.23	10.07	-3.66	3.36
122.0	3191	3518	3874	-2.74	-9.28	10.13	-3.70	3.39
123.0	3104	3423	3772	-2.73	-9.33	10.19	-3.74	3.42
124.0	3019	3331	3673	-2.72	-9.38	10.25	-3.77	3.45
125.0	2936	3242	3576	-2.71	-9.43	10.31	-3.81	3.49