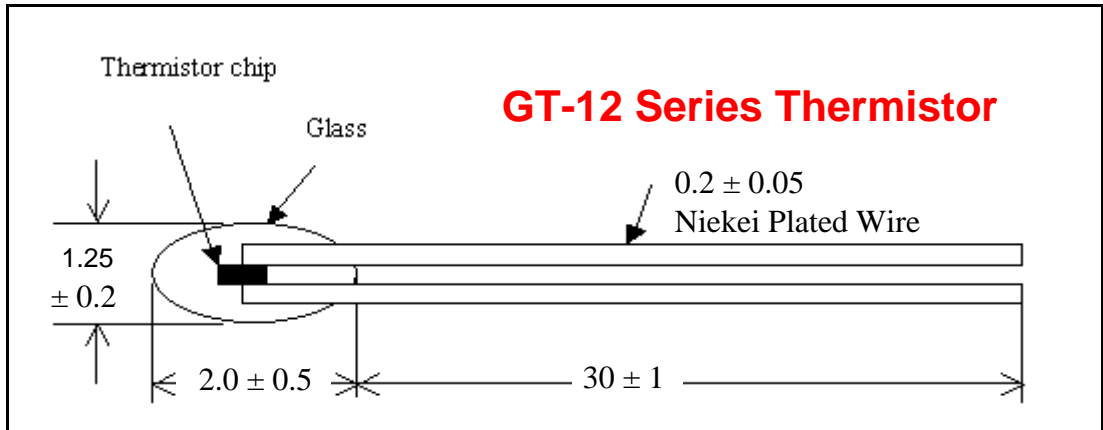


Technical Data

103F-GT-12-3435FA NTC Thermistor Specifications

1 Part Number 103F-GT-12-3435FA

2 Dimensions



3 Rating

- a) Rated zero-power resistance. $R_{25} = 10K\Omega \pm 1\%$ (at 25°C)
- b) B constant $B (25 / 85^{\circ}C) = 3435K \pm 1\%$
The B constant is calculated using the zero-power resistance values measured at 25°C and 85°C
- c) Thermal dissipation constant (δ) : $\delta \geq 3.0 \text{ mW} / ^{\circ}C$ Min. (in still air)
- d) Thermal time constant : $\leq 5 \text{ Sec.}$ (in still air)
- e) Operating temperature : -30°C to +250°C
- f) Power consumption : 3.5 mW (max.)

4 Climatic Test

- a) Dry heat
Test samples shall be exposed in air at 300°C for 1,000 hours.
After being stored in room temperature and humidity for one hour, the change ratio of R25 (Zero-power resistance at 25°C) shall be within ±1% of the initial value.
- b) Damp Heat
Test samples shall be exposed in relative humidity of 95% RH at 70°C for 1,000 hours.
After being stored in room temperature and humidity for one hour, the change ratio of R25 shall be within ± 1% of the initial value.
- c) Cold
Test samples shall be exposed in air at - 50°C for 1,000 hours.
After being stored in room temperature and humidity for one hour, the change ratio of R25 shall be within ± 1% of the initial value.
- d) Humidity load
DC 0.1mA current shall be applied to the test samples in the temperature of 70°C and relative humidity of 95% RH for 1,000 hours.
After being stored in room temperature and humidity for one hour, the change ratio of R25 shall be within ± 1% of the initial value.
- e) Rapid change of temperature
One cycle of the change of temperature shall be proceeded in the order of the following conditions.
Room ambient temperature. (Initial value)
At - 30°C, for 5 minutes.
At +200°C, for 5 minutes.
Room ambient temperature, for 3 minutes.
5 cycles of change of temperature shall be applied to the test samples.
After being stored in room temperature and humidity for one hour, the change ratio of R25 shall be within ± 1% of the initial value.

Technical Data

103F-GT-12-3435FA

NTC Thermistor Specifications

5 Insulation

Insulation resistance

Insulation resistance shall be more than $100M\Omega$, which is measured at DC 500V between part of glass head and lead wires.

6 Mechanical Characteristics

a) Robustness of terminations

Tensile : After 1N loading weight is applied to the wire terminations for 10 seconds, there shall be no visible damage.

b) Bending : The terminal shall gradually be bent by 90° in one direction, then by 90° in the opposite direction, and back to the original position with 0.5N loading weight.

After this test method, there shall be no visible damage.

c) Free fall : After three times natural fall to a maple board from 1 m high, there shall be no visible damage.

7 Soldering

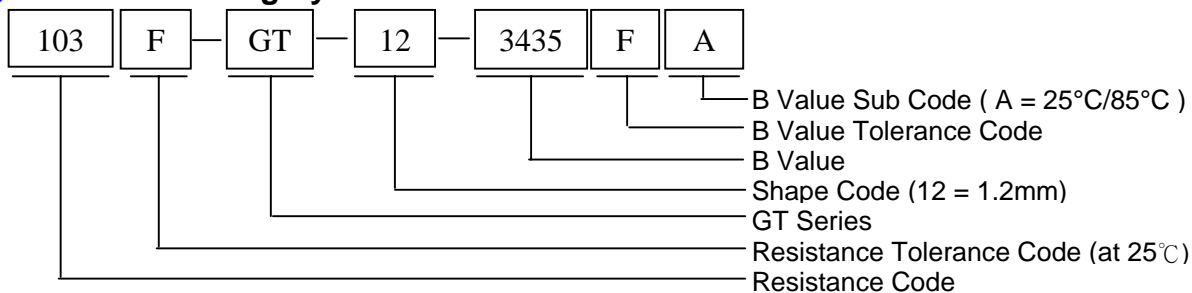
a) Solderability

Terminals shall be immersed into solder bath up to 2.5mm from the body at $250^\circ\text{C} \pm 5^\circ\text{C}$ for 5 ± 0.5 seconds. More than 90% of its terminals shall be covered with solder.

b) Resistance to soldering heat

After lead wires are immersed into solder bath up to 2.5mm from the body at $350^\circ\text{C} \pm 5^\circ\text{C}$ for 3.5 ± 0.5 seconds, the change ratio of R25 shall be within $\pm 2\%$ of the initial value.

8 Part Numbering System



* All coding please see Coding page

R25 = $10K\Omega \pm 1\%$ (at 25°C)
B (25 / 85°C) = $3435K \pm 1\%$

Technical Data

103F-GT-12-3435FA

NTC Thermistor Specifications

9 R / T table

Temperature °C	Resistance (K Ω)			Tolerance (R)		Tolerance (°C)	
	Minimum	Center	Maximum	ΔR (%)	$-\Delta R$ (%)	ΔT	$-\Delta T$
-30	112.546	116.509	120.599	3.51	-3.40	0.68	-0.66
-29	106.792	110.493	114.312	3.46	-3.35	0.67	-0.65
-28	101.369	104.827	108.393	3.40	-3.30	0.67	-0.65
-27	96.256	99.488	102.818	3.35	-3.25	0.66	-0.64
-26	91.435	94.456	97.567	3.29	-3.20	0.66	-0.64
-25	86.886	89.710	92.617	3.24	-3.15	0.65	-0.63
-24	82.592	85.233	87.950	3.19	-3.10	0.64	-0.63
-23	78.538	81.008	83.548	3.14	-3.05	0.64	-0.62
-22	74.708	77.019	79.394	3.08	-3.00	0.63	-0.61
-21	71.090	73.252	75.473	3.03	-2.95	0.62	-0.61
-20	67.670	69.693	71.770	2.98	-2.90	0.62	-0.60
-19	64.435	66.329	68.272	2.93	-2.86	0.61	-0.60
-18	61.375	63.149	64.966	2.88	-2.81	0.60	-0.59
-17	58.480	60.140	61.841	2.83	-2.76	0.60	-0.58
-16	55.739	57.294	58.886	2.78	-2.71	0.59	-0.58
-15	53.144	54.600	56.090	2.73	-2.67	0.58	-0.57
-14	50.685	52.049	53.444	2.68	-2.62	0.58	-0.56
-13	48.356	49.633	50.939	2.63	-2.57	0.57	-0.56
-12	46.147	47.344	48.567	2.58	-2.53	0.56	-0.55
-11	44.053	45.174	46.319	2.53	-2.48	0.56	-0.54
-10	42.067	43.117	44.189	2.49	-2.44	0.55	-0.54
-9	40.182	41.166	42.170	2.44	-2.39	0.54	-0.53
-8	38.393	39.315	40.256	2.39	-2.35	0.54	-0.53
-7	36.694	37.559	38.440	2.35	-2.30	0.53	-0.52
-6	35.081	35.891	36.716	2.30	-2.26	0.52	-0.51
-5	33.548	34.307	35.080	2.25	-2.21	0.51	-0.50
-4	32.091	32.803	33.527	2.21	-2.17	0.51	-0.50
-3	30.707	31.373	32.052	2.16	-2.13	0.50	-0.49
-2	29.390	30.015	30.650	2.12	-2.08	0.49	-0.48
-1	28.137	28.723	29.317	2.07	-2.04	0.48	-0.48
0	26.945	27.494	28.051	2.03	-2.00	0.48	-0.47
1	25.810	26.325	26.846	1.98	-1.95	0.47	-0.46
2	24.730	25.212	25.701	1.94	-1.91	0.46	-0.45
3	23.701	24.153	24.610	1.89	-1.87	0.45	-0.45
4	22.721	23.144	23.573	1.85	-1.83	0.45	-0.44
5	21.787	22.184	22.585	1.81	-1.79	0.44	-0.43
6	20.897	21.268	21.644	1.77	-1.74	0.43	-0.43
7	20.049	20.396	20.747	1.72	-1.70	0.42	-0.42
8	19.239	19.564	19.893	1.68	-1.66	0.41	-0.41
9	18.467	18.771	19.079	1.64	-1.62	0.41	-0.40
10	17.730	18.015	18.303	1.60	-1.58	0.40	-0.39
11	17.027	17.294	17.562	1.55	-1.54	0.39	-0.39
12	16.356	16.605	16.856	1.51	-1.50	0.38	-0.38
13	15.715	15.948	16.182	1.47	-1.46	0.37	-0.37
14	15.102	15.320	15.539	1.43	-1.42	0.37	-0.36
15	14.517	14.720	14.925	1.39	-1.38	0.36	-0.36
16	13.958	14.148	14.339	1.35	-1.34	0.35	-0.35
17	13.423	13.600	13.779	1.31	-1.30	0.34	-0.34
18	12.912	13.077	13.243	1.27	-1.27	0.33	-0.33
19	12.423	12.577	12.732	1.23	-1.23	0.32	-0.32
20	11.955	12.099	12.243	1.19	-1.19	0.32	-0.31

R25 = 10K Ω \pm 1% (at 25°C)

B (25 / 85°C) = 3435K \pm 1%

Technical Data

103F-GT-12-3435FA NTC Thermistor Specifications

Temperature °C	Resistance (K Ω)			Tolerance (R)		Tolerance (°C)	
	Minimum	Center	Maximum	ΔR (%)	$-\Delta R$ (%)	ΔT	$-\Delta T$
20	11.955	12.099	12.243	1.19	-1.19	0.32	-0.31
21	11.507	11.641	11.776	1.15	-1.15	0.31	-0.31
22	11.079	11.204	11.329	1.11	-1.11	0.30	-0.30
23	10.669	10.785	10.901	1.08	-1.07	0.29	-0.29
24	10.276	10.384	10.492	1.04	-1.04	0.28	-0.28
25	9.900	10.000	10.100	1.00	-1.00	0.27	-0.27
26	9.533	9.632	9.732	1.04	-1.04	0.28	-0.28
27	9.181	9.280	9.380	1.08	-1.07	0.30	-0.30
28	8.843	8.943	9.042	1.11	-1.11	0.31	-0.31
29	8.521	8.620	8.719	1.15	-1.15	0.32	-0.32
30	8.211	8.310	8.408	1.19	-1.18	0.33	-0.33
31	7.915	8.012	8.110	1.22	-1.22	0.34	-0.34
32	7.631	7.728	7.825	1.26	-1.25	0.36	-0.35
33	7.358	7.454	7.551	1.30	-1.29	0.37	-0.37
34	7.097	7.192	7.288	1.33	-1.33	0.38	-0.38
35	6.846	6.940	7.035	1.37	-1.36	0.39	-0.39
36	6.605	6.699	6.793	1.41	-1.40	0.41	-0.40
37	6.374	6.467	6.560	1.44	-1.43	0.42	-0.42
38	6.153	6.244	6.336	1.48	-1.47	0.43	-0.43
39	5.940	6.030	6.122	1.51	-1.50	0.44	-0.44
40	5.736	5.825	5.915	1.55	-1.53	0.46	-0.45
41	5.539	5.628	5.717	1.58	-1.57	0.47	-0.47
42	5.351	5.438	5.526	1.62	-1.60	0.48	-0.48
43	5.170	5.256	5.343	1.65	-1.63	0.50	-0.49
44	4.996	5.080	5.166	1.69	-1.67	0.51	-0.50
45	4.828	4.912	4.996	1.72	-1.70	0.52	-0.52
46	4.667	4.750	4.833	1.75	-1.73	0.53	-0.53
47	4.513	4.594	4.676	1.79	-1.77	0.55	-0.54
48	4.364	4.444	4.525	1.82	-1.80	0.56	-0.55
49	4.221	4.300	4.379	1.86	-1.83	0.57	-0.57
50	4.083	4.161	4.239	1.89	-1.86	0.59	-0.58
51	3.950	4.027	4.104	1.92	-1.90	0.60	-0.59
52	3.823	3.898	3.974	1.96	-1.93	0.61	-0.61
53	3.700	3.774	3.849	1.99	-1.96	0.63	-0.62
54	3.582	3.654	3.728	2.02	-1.99	0.64	-0.63
55	3.468	3.539	3.612	2.05	-2.02	0.66	-0.65
56	3.358	3.428	3.500	2.09	-2.05	0.67	-0.66
57	3.252	3.322	3.392	2.12	-2.09	0.68	-0.67
58	3.150	3.219	3.288	2.15	-2.12	0.70	-0.69
59	3.052	3.119	3.187	2.18	-2.15	0.71	-0.70
60	2.958	3.023	3.090	2.22	-2.18	0.72	-0.71
61	2.866	2.931	2.997	2.25	-2.21	0.74	-0.73
62	2.778	2.842	2.907	2.28	-2.24	0.75	-0.74
63	2.693	2.756	2.820	2.31	-2.27	0.77	-0.75
64	2.611	2.673	2.735	2.34	-2.30	0.78	-0.77
65	2.533	2.593	2.654	2.37	-2.33	0.80	-0.78
66	2.456	2.516	2.576	2.40	-2.36	0.81	-0.79
67	2.383	2.441	2.500	2.43	-2.39	0.83	-0.81
68	2.312	2.369	2.427	2.47	-2.42	0.84	-0.82
69	2.243	2.299	2.357	2.50	-2.44	0.85	-0.84
70	2.177	2.232	2.289	2.53	-2.47	0.87	-0.85

R25 = 10K Ω \pm 1% (at 25°C)

B (25 / 85°C) = 3435K \pm 1%

Technical Data

103F-GT-12-3435FA NTC Thermistor Specifications

Temperature °C	Resistance (K Ω)			Tolerance (R)		Tolerance (°C)	
	Minimum	Center	Maximum	ΔR (%)	$-\Delta R$ (%)	ΔT	$-\Delta T$
70	2.177	2.232	2.289	2.53	-2.47	0.87	-0.85
71	2.113	2.167	2.223	2.56	-2.50	0.88	-0.86
72	2.051	2.105	2.159	2.59	-2.53	0.90	-0.88
73	1.992	2.044	2.097	2.62	-2.56	0.91	-0.89
74	1.934	1.985	2.038	2.65	-2.59	0.93	-0.91
75	1.878	1.929	1.980	2.68	-2.62	0.94	-0.92
76	1.824	1.874	1.925	2.71	-2.64	0.96	-0.94
77	1.772	1.821	1.871	2.73	-2.67	0.97	-0.95
78	1.722	1.770	1.819	2.76	-2.70	0.99	-0.97
79	1.673	1.720	1.768	2.79	-2.73	1.00	-0.98
80	1.626	1.673	1.720	2.82	-2.75	1.02	-1.00
81	1.581	1.626	1.673	2.85	-2.78	1.03	-1.01
82	1.537	1.581	1.627	2.88	-2.81	1.05	-1.02
83	1.494	1.538	1.583	2.91	-2.84	1.07	-1.04
84	1.453	1.496	1.540	2.94	-2.86	1.08	-1.05
85	1.413	1.455	1.498	2.97	-2.89	1.10	-1.07
86	1.375	1.416	1.458	2.99	-2.92	1.11	-1.08
87	1.337	1.378	1.419	3.02	-2.94	1.13	-1.10
88	1.301	1.341	1.382	3.05	-2.97	1.15	-1.12
89	1.266	1.305	1.345	3.08	-3.00	1.16	-1.13
90	1.232	1.270	1.310	3.11	-3.02	1.17	-1.14
91	1.199	1.237	1.276	3.13	-3.05	1.19	-1.16
92	1.167	1.204	1.242	3.16	-3.07	1.21	-1.18
93	1.136	1.173	1.210	3.19	-3.10	1.22	-1.19
94	1.107	1.142	1.179	3.22	-3.12	1.24	-1.21
95	1.078	1.113	1.149	3.24	-3.15	1.26	-1.22
96	1.049	1.084	1.119	3.27	-3.18	1.27	-1.23
97	1.022	1.056	1.091	3.30	-3.20	1.29	-1.25
98	0.996	1.029	1.063	3.32	-3.23	1.31	-1.27
99	0.970	1.003	1.036	3.35	-3.25	1.32	-1.28
100	0.945	0.977	1.010	3.38	-3.28	1.34	-1.30
101	0.921	0.953	0.985	3.40	-3.30	1.36	-1.32
102	0.898	0.929	0.961	3.43	-3.32	1.37	-1.33
103	0.875	0.906	0.937	3.46	-3.35	1.39	-1.35
104	0.853	0.883	0.914	3.48	-3.37	1.40	-1.36
105	0.832	0.861	0.891	3.51	-3.40	1.42	-1.38
106	0.811	0.840	0.870	3.53	-3.42	1.44	-1.40
107	0.791	0.819	0.848	3.56	-3.45	1.45	-1.40
108	0.771	0.799	0.828	3.58	-3.47	1.48	-1.43
109	0.753	0.780	0.808	3.61	-3.49	1.49	-1.44
110	0.734	0.761	0.789	3.64	-3.52	1.50	-1.45
111	0.716	0.743	0.770	3.66	-3.54	1.53	-1.48
112	0.699	0.725	0.751	3.69	-3.56	1.54	-1.49
113	0.682	0.707	0.734	3.71	-3.59	1.56	-1.51
114	0.666	0.691	0.716	3.74	-3.61	1.57	-1.52
115	0.650	0.674	0.700	3.76	-3.63	1.59	-1.54
116	0.634	0.658	0.683	3.79	-3.66	1.62	-1.56
117	0.619	0.643	0.667	3.81	-3.68	1.62	-1.57
118	0.605	0.628	0.652	3.83	-3.70	1.65	-1.59
119	0.590	0.613	0.637	3.86	-3.73	1.67	-1.61
120	0.577	0.599	0.622	3.88	-3.75	1.69	-1.63

R25 = 10K Ω \pm 1% (at 25°C)
 B (25 / 85°C) = 3435K \pm 1%

Technical Data

103F-GT-12-3435FA NTC Thermistor Specifications

Temperature °C	Resistance (K Ω)			Tolerance (R)		Tolerance (°C)	
	Minimum	Center	Maximum	ΔR (%)	$-\Delta R$ (%)	ΔT	$-\Delta T$
120	0.577	0.599	0.622	3.88	-3.75	1.69	-1.63
121	0.563	0.585	0.608	3.91	-3.77	1.71	-1.65
122	0.550	0.572	0.594	3.93	-3.79	1.72	-1.66
123	0.537	0.559	0.581	3.96	-3.82	1.74	-1.68
124	0.525	0.546	0.568	3.98	-3.84	1.75	-1.69
125	0.513	0.534	0.555	4.00	-3.86	1.78	-1.72
126	0.501	0.522	0.543	4.03	-3.88	1.78	-1.72
127	0.490	0.510	0.530	4.05	-3.90	1.81	-1.75
128	0.479	0.498	0.519	4.07	-3.92	1.83	-1.76
129	0.468	0.487	0.507	4.10	-3.95	1.85	-1.78
130	0.458	0.477	0.496	4.12	-3.97	1.87	-1.80
131	0.447	0.466	0.485	4.14	-3.99	1.89	-1.82
132	0.438	0.456	0.475	4.17	-4.01	1.90	-1.83
133	0.428	0.446	0.464	4.19	-4.03	1.93	-1.85
134	0.418	0.436	0.454	4.21	-4.05	1.93	-1.86
135	0.409	0.427	0.445	4.24	-4.07	1.96	-1.89
136	0.400	0.417	0.435	4.26	-4.10	1.98	-1.90
137	0.392	0.408	0.426	4.28	-4.12	2.01	-1.93
138	0.383	0.400	0.417	4.30	-4.14	2.00	-1.92
139	0.375	0.391	0.408	4.33	-4.16	2.04	-1.96
140	0.367	0.383	0.399	4.35	-4.18	2.06	-1.97
141	0.359	0.375	0.391	4.37	-4.20	2.10	-2.02
142	0.351	0.367	0.383	4.39	-4.22	2.09	-2.01
143	0.344	0.359	0.375	4.42	-4.24	2.12	-2.03
144	0.337	0.352	0.367	4.44	-4.26	2.14	-2.05
145	0.330	0.344	0.360	4.46	-4.28	2.13	-2.05
146	0.323	0.337	0.352	4.48	-4.30	2.19	-2.10
147	0.316	0.330	0.345	4.50	-4.32	2.19	-2.10
148	0.309	0.324	0.338	4.53	-4.34	2.22	-2.13
149	0.303	0.317	0.331	4.55	-4.36	2.22	-2.13
150	0.297	0.310	0.325	4.57	-4.38	2.29	-2.19
151	0.291	0.304	0.318	4.59	-4.40	2.25	-2.16
152	0.285	0.298	0.312	4.61	-4.42	2.29	-2.19
153	0.279	0.292	0.306	4.63	-4.44	2.33	-2.23
154	0.273	0.286	0.300	4.65	-4.46	2.34	-2.24
155	0.268	0.281	0.294	4.67	-4.48	2.34	-2.24
156	0.263	0.275	0.288	4.70	-4.49	2.39	-2.29
157	0.257	0.270	0.282	4.72	-4.51	2.40	-2.30
158	0.252	0.264	0.277	4.74	-4.53	2.41	-2.30
159	0.247	0.259	0.271	4.76	-4.55	2.46	-2.36
160	0.242	0.254	0.266	4.78	-4.57	2.43	-2.32
161	0.238	0.249	0.261	4.80	-4.59	2.49	-2.38
162	0.233	0.244	0.256	4.82	-4.61	2.50	-2.39
163	0.228	0.240	0.251	4.84	-4.63	2.52	-2.41
164	0.224	0.235	0.246	4.86	-4.64	2.54	-2.42
165	0.220	0.230	0.242	4.88	-4.66	2.56	-2.44
166	0.215	0.226	0.237	4.90	-4.68	2.64	-2.52
167	0.211	0.222	0.233	4.92	-4.70	2.60	-2.48
168	0.207	0.218	0.228	4.94	-4.72	2.62	-2.50
169	0.203	0.214	0.224	4.96	-4.74	2.65	-2.53
170	0.200	0.210	0.220	4.98	-4.75	2.68	-2.55

R25 = 10K Ω \pm 1% (at 25°C)
 B (25 / 85°C) = 3435K \pm 1%

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103F-GT-12-3435FA NTC Thermistor Specifications

Temperature °C	Resistance (K Ω)			Tolerance (R)		Tolerance (°C)	
	Minimum	Center	Maximum	ΔR (%)	$-\Delta R$ (%)	ΔT	$-\Delta T$
170	0.200	0.210	0.220	4.98	-4.75	2.68	-2.55
171	0.196	0.206	0.216	5.00	-4.77	2.71	-2.58
172	0.192	0.202	0.212	5.02	-4.79	2.67	-2.54
173	0.188	0.198	0.208	5.04	-4.81	2.77	-2.64
174	0.185	0.194	0.204	5.06	-4.83	2.73	-2.61
175	0.182	0.191	0.200	5.08	-4.84	2.85	-2.72
176	0.178	0.187	0.197	5.10	-4.86	2.73	-2.60
177	0.175	0.184	0.193	5.12	-4.88	2.85	-2.72
178	0.172	0.181	0.190	5.14	-4.90	2.90	-2.76
179	0.169	0.177	0.187	5.16	-4.91	2.86	-2.72
180	0.166	0.174	0.183	5.17	-4.93	2.91	-2.77
181	0.163	0.171	0.180	5.19	-4.95	2.87	-2.73
182	0.160	0.168	0.177	5.21	-4.96	2.92	-2.78
183	0.157	0.165	0.174	5.23	-4.98	2.98	-2.83
184	0.154	0.162	0.171	5.25	-5.00	3.04	-2.89
185	0.151	0.159	0.168	5.27	-5.01	3.00	-2.85
186	0.149	0.157	0.165	5.29	-5.03	3.06	-2.92
187	0.146	0.154	0.162	5.31	-5.05	3.02	-2.88
188	0.143	0.151	0.159	5.32	-5.06	3.09	-2.94
189	0.141	0.149	0.156	5.34	-5.08	3.05	-2.90
190	0.138	0.146	0.154	5.36	-5.10	3.13	-2.98
191	0.136	0.143	0.151	5.38	-5.11	3.21	-3.06
192	0.134	0.141	0.149	5.40	-5.13	3.17	-3.01
193	0.131	0.139	0.146	5.42	-5.15	3.13	-2.97
194	0.129	0.136	0.144	5.43	-5.16	3.22	-3.06
195	0.127	0.134	0.141	5.45	-5.18	3.32	-3.15
196	0.125	0.132	0.139	5.47	-5.20	3.27	-3.11
197	0.123	0.130	0.137	5.49	-5.21	3.23	-3.07
198	0.121	0.127	0.134	5.51	-5.23	3.34	-3.17
199	0.119	0.125	0.132	5.52	-5.24	3.29	-3.13
200	0.117	0.123	0.130	5.54	-5.26	3.41	-3.24
201	0.115	0.121	0.128	5.56	-5.27	3.37	-3.19
202	0.113	0.119	0.126	5.58	-5.29	3.49	-3.32
203	0.111	0.117	0.124	5.59	-5.31	3.45	-3.27
204	0.109	0.115	0.122	5.61	-5.32	3.40	-3.23
205	0.107	0.113	0.120	5.63	-5.34	3.55	-3.36
206	0.106	0.112	0.118	5.64	-5.35	3.50	-3.32
207	0.104	0.110	0.116	5.66	-5.37	3.45	-3.27
208	0.102	0.108	0.114	5.68	-5.38	3.61	-3.42
209	0.101	0.106	0.112	5.70	-5.40	3.36	-3.19
210	0.099	0.105	0.110	5.71	-5.41	3.73	-3.54
211	0.097	0.103	0.109	5.73	-5.43	3.68	-3.49
212	0.096	0.101	0.107	5.75	-5.44	3.64	-3.45
213	0.094	0.100	0.105	5.76	-5.46	3.83	-3.63
214	0.093	0.098	0.104	5.78	-5.47	3.78	-3.58
215	0.091	0.097	0.102	5.80	-5.49	3.74	-3.54
216	0.090	0.095	0.101	5.81	-5.50	3.69	-3.49
217	0.089	0.094	0.099	5.83	-5.52	3.64	-3.45
218	0.087	0.092	0.098	5.85	-5.53	3.85	-3.64
219	0.086	0.091	0.096	5.86	-5.55	3.80	-3.60
220	0.084	0.089	0.095	5.88	-5.56	4.04	-3.82

R25 = 10K Ω \pm 1% (at 25°C)

B (25 / 85°C) = 3435K \pm 1%

Technical Data

103F-GT-12-3435FA NTC Thermistor Specifications

Temperature °C	Resistance (K Ω)			Tolerance (R)		Tolerance (°C)	
	Minimum	Center	Maximum	ΔR (%)	$-\Delta R$ (%)	ΔT	$-\Delta T$
220	0.084	0.089	0.095	5.88	-5.56	4.04	-3.82
221	0.083	0.088	0.093	5.89	-5.58	3.99	-3.78
222	0.082	0.087	0.092	5.91	-5.59	3.95	-3.73
223	0.081	0.086	0.091	5.93	-5.60	3.90	-3.69
224	0.079	0.084	0.089	5.94	-5.62	3.85	-3.64
225	0.078	0.083	0.088	5.96	-5.63	4.12	-3.89
226	0.077	0.082	0.087	5.97	-5.65	4.07	-3.84
227	0.076	0.081	0.085	5.99	-5.66	4.02	-3.80
228	0.075	0.079	0.084	6.01	-5.67	3.97	-3.75
229	0.074	0.078	0.083	6.02	-5.69	4.20	-3.97
230	0.073	0.077	0.082	6.04	-5.70	4.30	-4.06
231	0.072	0.076	0.080	6.05	-5.72	4.18	-3.94
232	0.071	0.075	0.079	6.07	-5.73	4.13	-3.90
233	0.069	0.074	0.078	6.08	-5.74	4.08	-3.85
234	0.068	0.073	0.077	6.10	-5.76	4.43	-4.18
235	0.067	0.072	0.076	6.11	-5.77	4.38	-4.13
236	0.067	0.071	0.075	6.13	-5.78	3.93	-3.71
237	0.065	0.070	0.074	6.15	-5.80	4.75	-4.48
238	0.065	0.069	0.073	6.16	-5.81	4.23	-3.99
239	0.064	0.068	0.072	6.17	-5.83	4.17	-3.94
240	0.063	0.067	0.071	6.19	-5.84	4.58	-4.32
241	0.062	0.066	0.070	6.21	-5.85	4.53	-4.27
242	0.061	0.065	0.069	6.22	-5.87	4.48	-4.22
243	0.060	0.064	0.068	6.23	-5.88	4.43	-4.17
244	0.059	0.063	0.067	6.25	-5.89	4.37	-4.12
245	0.058	0.062	0.066	6.27	-5.91	4.86	-4.58
246	0.058	0.061	0.065	6.28	-5.92	4.81	-4.53
247	0.057	0.061	0.064	6.29	-5.93	4.23	-3.99
248	0.056	0.060	0.063	6.31	-5.94	4.70	-4.43
249	0.055	0.059	0.063	6.32	-5.96	4.65	-4.38
250	0.055	0.058	0.062	6.34	-5.97	4.75	-4.45

R25 = 10K Ω \pm 1% (at 25°C)

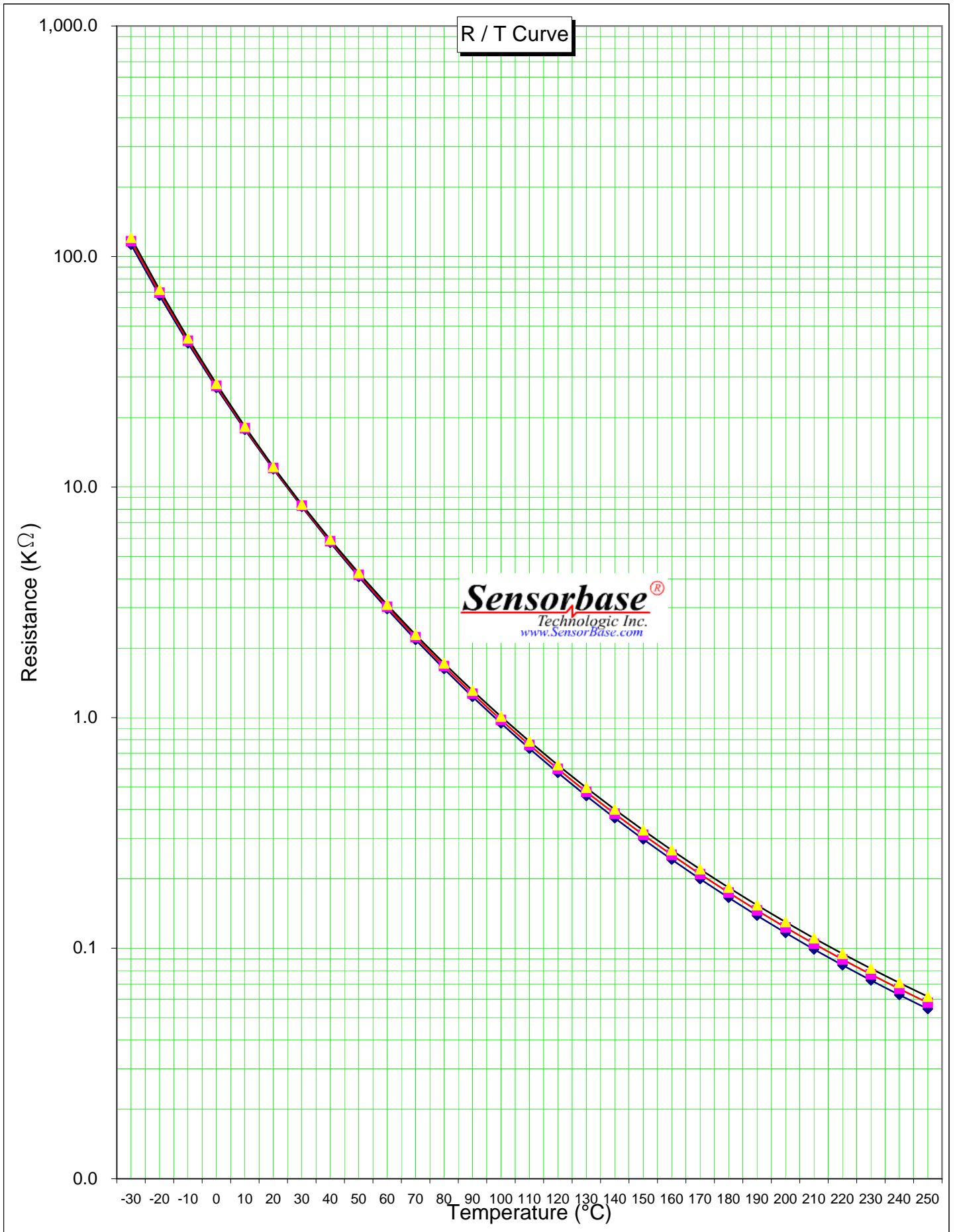
B (25 / 85°C) = 3435K \pm 1%

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NTC Thermistor Specifications

10 Resistance / Temperature Curve



R25 = 10KΩ ± 1% (at 25°C)
B (25 / 85°C) = 3435K ± 1%

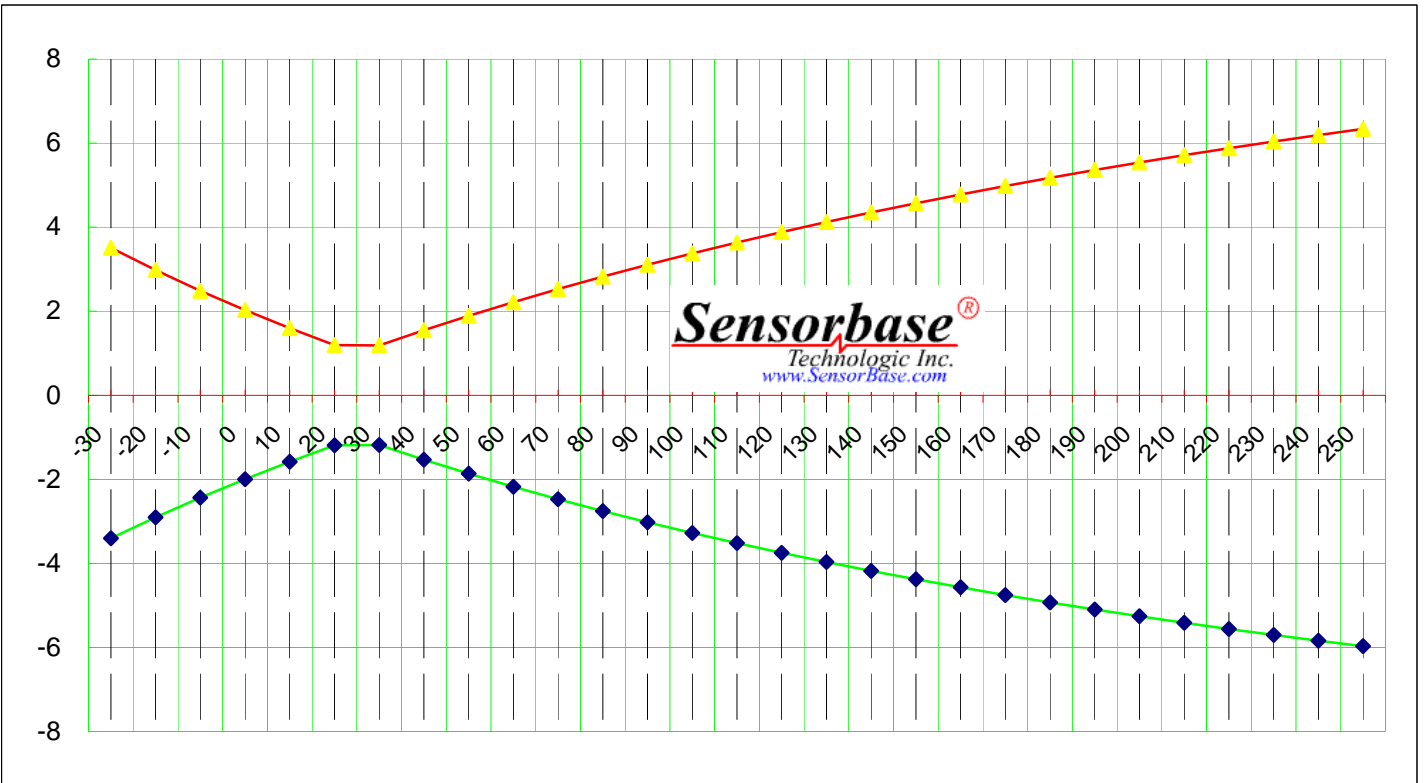
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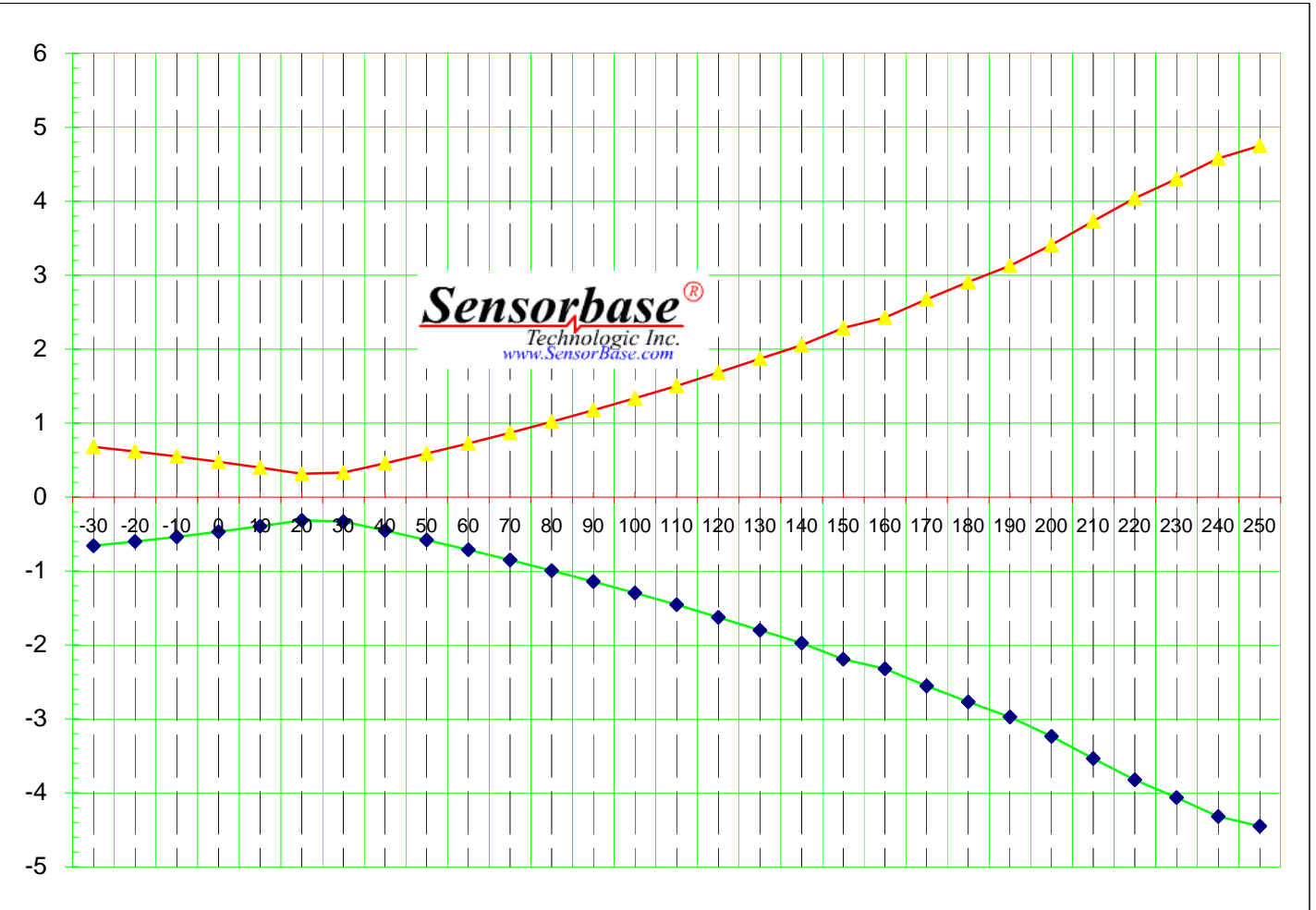
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NTC Thermistor Specifications

11 Resistance Tolerance (%)



12 Temperature Tolerance (°C)



R25 = 10K Ω \pm 1% (at 25°C)
B (25 / 85°C) = 3435K \pm 1%

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