



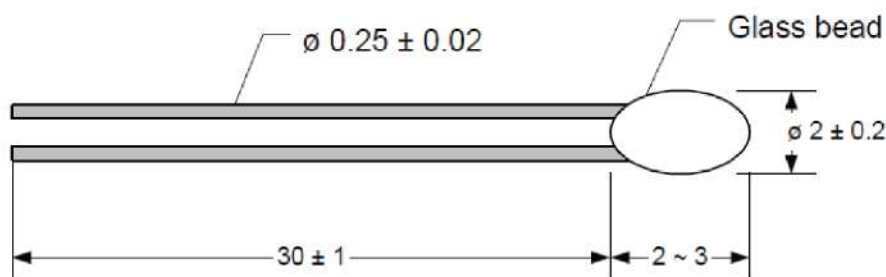
- ▶ **High Sensitivity**
- ▶ **Glass encapsulated**
- ▶ **Temperature range -40° C to 250° C**

The ENTC-G1B-100k4000-1 has a hermetically sealed glass bead. It offers stability and reliability even at very high temperatures.

The thermistor can be used in a variety of applications such as heating and cooling systems and hot water boilers. It is well suited for humid environments and where thermal shocks can occur.

Specifications	
Element:	NTC Thermistor
Wire material	Ø 0.25mm dumet wire (NiFe alloy w/copper coating)
Resistance at +25°C	100000 Ω
Resistance Tolerance at +25°C	±1%
Beta Value 25/85 constant	4000K ± 1%
Dissipation factor (in still air)	1mW/°C
Thermal time constant (in still air)	~7 sec
Operating temperature range	-40° C to + 250° C

Dimensions



Order code: ENTC-G1B-100k4000-1



Resistance vs. temperature table for 100k4000-1

R(25) = 100000 Ohms

B(25/85) = 4000K ± 1%

Temp.	R _{min}	R _{nor.}	R _{max}
(°C)	(KΩ)	(KΩ)	(KΩ)
-40	3259.3588	3410.5564	3568.4109
-39	3049.4115	3188.7246	3334.0688
-38	2854.4283	2982.842	3116.721
-37	2673.2439	2791.6567	2915.0231
-36	2504.7933	2614.0254	2727.7482
-35	2348.0985	2448.8987	2553.7707
-34	2202.2633	2295.3159	2392.0611
-33	2066.4664	2152.397	2241.6767
-32	1939.9519	2019.3325	2101.7511
-31	1822.0262	1895.3804	1971.4907
-30	1712.0522	1779.8593	1850.1669
-29	1609.4435	1672.1425	1737.1103
-28	1513.6602	1571.6534	1631.7053
-27	1424.206	1477.8623	1533.3867
-26	1340.6231	1390.2808	1441.6337
-25	1262.4894	1308.4591	1355.967
-24	1189.4161	1231.9829	1275.9454
-23	1121.0443	1160.47	1201.1621
-22	1057.0427	1093.568	1131.2423
-21	997.1052	1030.9513	1065.8397
-20	940.9488	972.3193	1004.6352
-19	888.3124	917.3944	947.3338
-18	838.9538	865.9197	893.663
-17	792.6493	817.6578	843.371
-16	749.1914	772.3888	796.2248
-15	708.3884	729.9094	752.009
-14	670.0621	690.0309	710.5237
-13	634.0475	652.5788	671.5845
-12	600.1918	617.3912	635.02
-11	568.3524	584.3176	600.6712
-10	538.3977	553.2189	568.3912
-9	510.2052	523.9655	538.0431
-8	483.6608	496.4372	509.5002
-7	458.6586	470.5222	482.6444
-6	435.1003	446.1169	457.3667
-5	412.894	423.1244	433.5649
-4	391.9545	401.455	411.1446
-3	372.2023	381.0249	390.0177
-2	353.5632	361.7562	370.1021
-1	335.9683	343.5764	351.3217
0	319.3531	326.4177	333.6052
1	303.6576	310.217	316.8864
2	288.8258	294.9156	301.1037
3	274.8052	280.4584	286.1993
4	261.5471	266.7943	272.1195
5	249.0057	253.8752	258.8141
6	237.1383	241.6565	246.2362
7	225.9049	230.0963	234.342

Temp.	R _{min}	R _{nor.}	R _{max}
(°C)	(KΩ)	(KΩ)	(KΩ)
8	215.2684	219.1556	223.0907
9	205.1935	208.7977	212.4439
10	195.6478	198.9885	202.366
11	186.6004	189.6959	192.8235
12	178.0227	180.8899	183.7849
13	169.8878	172.5424	175.221
14	162.1704	164.6271	167.1043
15	154.8468	157.1192	159.409
16	147.895	149.9958	152.1112
17	141.2939	143.2349	145.188
18	135.0242	136.8163	138.6183
19	129.0674	130.7208	132.3822
20	123.4062	124.9305	126.461
21	118.0245	119.4285	120.8371
22	112.9069	114.1989	115.4941
23	108.0391	109.2268	110.4165
24	103.4077	104.4982	105.5896
25	99	100	101
26	94.7211	95.7197	96.7192
27	90.65	91.6456	92.6428
28	86.7758	87.7668	88.7602
29	83.0879	84.0729	85.0611
30	79.5763	80.5541	81.5358
31	76.2318	77.2013	78.1753
32	73.0455	74.0058	74.9712
33	70.0093	70.9595	71.9154
34	67.1152	68.0545	69.0001
35	64.3558	65.2837	66.2183
36	61.7244	62.6402	63.5632
37	59.2142	60.1175	61.0284
38	56.8192	57.7095	58.6079
39	54.5334	55.4104	56.2959
40	52.3514	53.2148	54.0871
41	50.2678	51.1174	51.9762
42	48.2779	49.1135	49.9586
43	46.3769	47.1984	48.0296
44	44.5604	45.3677	46.185
45	42.8243	43.6173	44.4205
46	41.1646	41.9433	42.7324
47	39.5776	40.3419	41.1169
48	38.0598	38.8098	39.5707
49	36.6078	37.3436	38.0904
50	35.2185	35.9401	36.6729
51	33.8887	34.5963	35.3151
52	32.6158	33.3094	34.0144
53	31.397	32.0768	32.768
54	30.2298	30.8959	31.5735
55	29.1117	29.7643	30.4285

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Temp.	R _{min}	R _{nor.}	R _{max}
(°C)	(KΩ)	(KΩ)	(KΩ)
56	28.0405	28.6797	29.3306
57	27.0139	27.6399	28.2776
58	26.0298	26.6428	27.2675
59	25.0864	25.6866	26.2985
60	24.1819	24.7694	25.3687
61	23.3142	23.8893	24.4761
62	22.4819	23.0448	23.6194
63	21.6834	22.2342	22.7967
64	20.9169	21.4559	22.0066
65	20.1813	20.7087	21.2477
66	19.475	19.991	20.5186
67	18.7968	19.3016	19.818
68	18.1455	18.6393	19.1446
69	17.5198	18.0028	18.4973
70	16.9185	17.391	17.8749
71	16.3408	16.8029	17.2763
72	15.7854	16.2374	16.7006
73	15.2517	15.6937	16.1469
74	14.7383	15.1706	15.614
75	14.2447	14.6674	15.1012
76	13.7699	14.1833	14.6077
77	13.3131	13.7174	14.1325
78	12.8736	13.2689	13.675
79	12.4505	12.8371	13.2344
80	12.0434	12.4214	12.81
81	11.6513	12.021	12.4012
82	11.2739	11.6354	12.0073
83	10.9104	11.2639	11.6277
84	10.5602	10.9059	11.2618
85	10.2229	10.5609	10.909
86	9.8979	10.2284	10.5689
87	9.5847	9.9079	10.241
88	9.2827	9.5988	9.9247
89	8.9917	9.3008	9.6196
90	8.711	9.0133	9.3252
91	8.4404	8.736	9.0411
92	8.1794	8.4685	8.767
93	7.9276	8.2104	8.5024
94	7.6846	7.9612	8.2469
95	7.4502	7.7207	8.0002
96	7.224	7.4886	7.7621
97	7.0056	7.2644	7.532
98	6.7948	7.0479	7.3097
99	6.5913	6.8389	7.0951
100	6.3947	6.6369	6.8876
101	6.2049	6.4418	6.6871
102	6.0214	6.2532	6.4933
103	5.8442	6.071	6.3059
104	5.673	5.8949	6.1248

Temp.	R _{min}	R _{nor.}	R _{max}
(°C)	(KΩ)	(KΩ)	(KΩ)
105	5.5075	5.7246	5.9496
106	5.3476	5.56	5.7802
107	5.1931	5.4009	5.6165
108	5.0436	5.2469	5.4579
109	4.899	5.098	5.3045
110	4.7593	4.954	5.1562
111	4.624	4.8146	5.0125
112	4.4933	4.6798	4.8736
113	4.3668	4.5493	4.739
114	4.2443	4.423	4.6087
115	4.1258	4.3007	4.4825
116	4.0111	4.1823	4.3604
117	3.9001	4.0677	4.2421
118	3.7926	3.9567	4.1274
119	3.6886	3.8492	4.0164
120	3.5877	3.745	3.9088
121	3.4901	3.6441	3.8045
122	3.3955	3.5463	3.7034
123	3.304	3.4516	3.6055
124	3.2152	3.3598	3.5105
125	3.1292	3.2708	3.4184
126	3.0458	3.1845	3.3291
127	2.965	3.1008	3.2425
128	2.8867	3.0197	3.1585
129	2.8108	2.9411	3.0771
130	2.7372	2.8648	2.9981
131	2.6658	2.7908	2.9214
132	2.5965	2.719	2.847
133	2.5293	2.6493	2.7747
134	2.4641	2.5817	2.7046
135	2.4009	2.5161	2.6366
136	2.3395	2.4524	2.5705
137	2.28	2.3906	2.5064
138	2.2222	2.3306	2.4441
139	2.1661	2.2724	2.3836
140	2.1116	2.2158	2.3249
141	2.0588	2.1609	2.2678
142	2.0074	2.1075	2.2123
143	1.9576	2.0557	2.1585
144	1.9091	2.0053	2.1061
145	1.8621	1.9564	2.0552
146	1.8165	1.9089	2.0058
147	1.7721	1.8627	1.9578
148	1.7289	1.8178	1.911
149	1.687	1.7742	1.8657
150	1.6462	1.7317	1.8214
151	1.6067	1.6905	1.7785
152	1.5682	1.6504	1.7367
153	1.5308	1.6114	1.6961

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Temp.	R _{min}	R _{nor.}	R _{max}
(°C)	(KΩ)	(KΩ)	(KΩ)
154	1.4944	1.5735	1.6566
155	1.459	1.5366	1.6181
156	1.4246	1.5007	1.5807
157	1.3911	1.4658	1.5443
158	1.3586	1.4319	1.509
159	1.3269	1.3988	1.4744
160	1.2962	1.3667	1.4409
161	1.2662	1.3354	1.4082
162	1.2371	1.305	1.3765
163	1.2087	1.2753	1.3455
164	1.1811	1.2465	1.3154
165	1.1542	1.2184	1.286
166	1.128	1.191	1.2574
167	1.1026	1.1644	1.2296
168	1.0777	1.1384	1.2024
169	1.0536	1.1132	1.1761
170	1.0301	1.0886	1.1503
171	1.0071	1.0646	1.1252
172	0.9848	1.0412	1.1007
173	0.9631	1.0185	1.077
174	0.9419	0.9963	1.0537
175	0.9213	0.9747	1.0311
176	0.9011	0.9536	1.009
177	0.8816	0.9331	0.9875
178	0.8625	0.9131	0.9666
179	0.8439	0.8936	0.9461
180	0.8258	0.8746	0.9262
181	0.808	0.856	0.9067
182	0.7908	0.8379	0.8877
183	0.774	0.8203	0.8693
184	0.7576	0.8031	0.8512
185	0.7416	0.7863	0.8336
186	0.7261	0.77	0.8165
187	0.7109	0.754	0.7997
188	0.696	0.7384	0.7833
189	0.6815	0.7232	0.7673
190	0.6674	0.7084	0.7518
191	0.6537	0.694	0.7367
192	0.6402	0.6798	0.7217
193	0.6271	0.666	0.7072
194	0.6144	0.6526	0.6931
195	0.6019	0.6395	0.6794
196	0.5897	0.6266	0.6658
197	0.5778	0.6141	0.6526
198	0.5662	0.6019	0.6398
199	0.5549	0.59	0.6273
200	0.5438	0.5783	0.615
201	0.5329	0.5669	0.603
202	0.5224	0.5558	0.5913

Temp.	R _{min}	R _{nor.}	R _{max}
(°C)	(KΩ)	(KΩ)	(KΩ)
203	0.5121	0.5449	0.5798
204	0.502	0.5343	0.5686
205	0.4922	0.524	0.5578
206	0.4825	0.5138	0.547
207	0.4732	0.5039	0.5366
208	0.4641	0.4943	0.5265
209	0.455	0.4848	0.5165
210	0.4463	0.4756	0.5067
211	0.4378	0.4666	0.4973
212	0.4294	0.4577	0.4879
213	0.4212	0.4491	0.4788
214	0.4133	0.4407	0.4699
215	0.4054	0.4324	0.4612
216	0.3978	0.4244	0.4527
217	0.3903	0.4165	0.4444
218	0.3831	0.4088	0.4362
219	0.3759	0.4012	0.4282
220	0.3689	0.3938	0.4204
221	0.3621	0.3866	0.4128
222	0.3554	0.3796	0.4054
223	0.3489	0.3727	0.3981
224	0.3425	0.3659	0.3909
225	0.3362	0.3593	0.3839
226	0.3301	0.3528	0.377
227	0.3241	0.3465	0.3704
228	0.3183	0.3403	0.3638
229	0.3126	0.3343	0.3575
230	0.307	0.3283	0.3511
231	0.3015	0.3225	0.345
232	0.2961	0.3168	0.3389
233	0.2909	0.3113	0.3331
234	0.2857	0.3058	0.3273
235	0.2807	0.3005	0.3217
236	0.2758	0.2953	0.3161
237	0.271	0.2902	0.3107
238	0.2663	0.2852	0.3054
239	0.2617	0.2803	0.3002
240	0.2571	0.2755	0.2951
241	0.2527	0.2708	0.2902
242	0.2484	0.2662	0.2853
243	0.244	0.2616	0.2804
244	0.2399	0.2572	0.2757
245	0.2358	0.2529	0.2712
246	0.2318	0.2486	0.2666
247	0.2279	0.2445	0.2623
248	0.2241	0.2404	0.2579
249	0.2203	0.2364	0.2536
250	0.2166	0.2325	0.2495