

G200K4261 Radial Glass Thermistor



- Glass hermetic encapsulation with high resistance to humid environments
- Wide operating temperature range
- High stability and performance in harsh environmental conditions
- Fast response time
- RoHS Compliant

DESCRIPTION

The NTC Chip hermetically sealed in a glass encapsulation package

FEATURES

- Hermetically sealed glass package
- Proven Stability and Reliability
- Available in $\pm 1\%$, $\pm 2\%$, $\pm 3\%$, $\pm 5\%$ and $\pm 10\%$ tolerance @ $+25^\circ\text{C}$
- Fast time response
- Low cost
- Temperature range -40°C to $+250^\circ\text{C}$

APPLICATIONS

- Air conditioning systems
- Refrigeration control
- Assembly into probes for a wide variety of applications
- In environments where thermal shock and humidity are present
- Hot water boiler systems
- Sensor for engine temperature control

PERFORMANCE SPECS

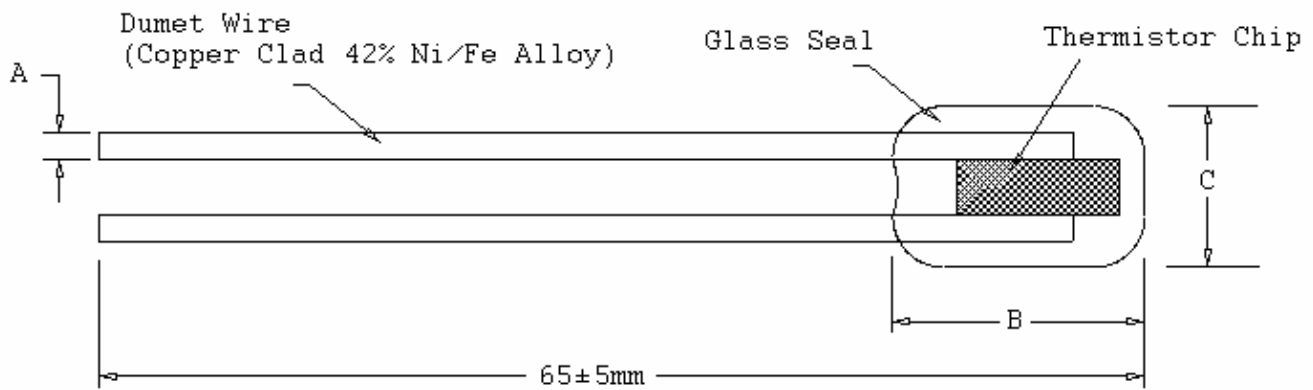
Parameters	Units	Value
Resistance @ $+25^\circ\text{C}$	Ohms	200,000
Resistance tolerance @ 25°C	%	± 1
Beta Value 25/85	K	4261
Tolerance on Beta Value 25/85	%	± 2
Series A Dissipation Constant in still air	mW/ $^\circ\text{C}$	1.3
Series B Dissipation Constant in still air	mW/ $^\circ\text{C}$	0.8
Series C Dissipation Constant in still air	mW/ $^\circ\text{C}$	0.5
Series A Time response in Liquids	Seconds	0.9~1.1
Series B Time response in Liquids	Seconds	0.3~0.4
Series C Time response in Liquids	Seconds	0.18~0.2

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Reliability Tests	Standard	Test Condition	Delta R
Storage in Dry Heat	IEC 60068-2-2	Storage temperature: +250°C Duration: 1000 hours	< 3%
Storage in Damp Heat	IEC 60068-2-3	Temperature of air is 50°C & RH 95% Duration: 56 days.	< 2%
Rapid Temperature Cycling	IEC 60068-2-14	Lower Test Temperature -55°C Upper Test Temperature +200°C Number of Cycles 1000	< 2%

MECHANICAL DETAILS



Dimensions			
	A	B	C
Series A Thermistor	0.3mm	4mm Max	2.5mm Max
Series B Thermistor	0.2mm	3mm Max	1.5mm Max
Series C Thermistor	0.15mm	2mm Max	0.9mm Max

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RESISTANCE V TEMPERATURE TABLE

Temp. °C	KOhms	Temp. °C	KOhms	Temp. °C	KOhms	Temp. °C	KOhms
-40	7903	2	616.3	44	87.86	86	18.63
-39	7366	3	584.9	45	84.33	87	18.02
-38	6870	4	555.3	46	80.96	88	17.44
-37	6410	5	527.3	47	77.75	89	16.87
-36	5985	6	500.9	48	74.68	90	16.33
-35	5591	7	476	49	71.74	91	15.81
-34	5225	8	452.5	50	68.94	92	15.3
-33	4886	9	430.3	51	66.26	93	14.82
-32	4571	10	409.2	52	63.69	94	14.35
-31	4279	11	389.4	53	61.24	95	13.9
-30	4007	12	370.6	54	58.9	96	13.47
-29	3754	13	352.8	55	56.65	97	13.05
-28	3519	14	336	56	54.5	98	12.64
-27	3301	15	320.1	57	52.45	99	12.25
-26	3097	16	305	58	50.48	100	11.87
-25	2907	17	290.7	59	48.59	101	11.51
-24	2730	18	277.1	60	46.79	102	11.16
-23	2565	19	264.3	61	45.06	103	10.82
-22	2412	20	252.1	62	43.4	104	10.5
-21	2268	21	240.6	63	41.81	105	10.18
-20	2134	22	229.6	64	40.29	106	9.876
-19	2008	23	219.2	65	38.83	107	9.582
-18	1891	24	209.4	66	37.43	108	9.297
-17	1781	25	200	67	36.09	109	9.023
-16	1679	26	191.1	68	34.8	110	8.758
-15	1583	27	182.6	69	33.56	111	8.501
-14	1493	28	174.6	70	32.38	112	8.254
-13	1409	29	167	71	31.24	113	8.014
-12	1330	30	159.7	72	30.14	114	7.783
-11	1256	31	152.8	73	29.09	115	7.559
-10	1186	32	146.2	74	28.08	116	7.342
-9	1121	33	140	75	27.11	117	7.133
-8	1060	34	134	76	26.18	118	6.931
-7	1002	35	128.3	77	25.29	119	6.735
-6	948.1	36	122.9	78	24.43	120	6.545
-5	897.3	37	117.8	79	23.6	121	6.362
-4	849.5	38	112.9	80	22.81	122	6.184
-3	804.5	39	108.2	81	22.04	123	6.012
-2	762.2	40	103.7	82	21.31	124	5.846
-1	722.4	41	99.48	83	20.6	125	5.685
0	684.9	42	95.42	84	19.92	126	5.529
1	649.6	43	91.55	85	19.26	127	5.378

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128	5.231
129	5.089
130	4.952
131	4.819
132	4.69
133	4.565
134	4.444
135	4.326
136	4.213
137	4.102
138	3.995
139	3.891
140	3.79
141	3.693
142	3.598
143	3.506
144	3.416
145	3.33
146	3.246
147	3.164
148	3.085
149	3.008
150	2.933
151	2.86
152	2.79
153	2.721
154	2.654
155	2.59
156	2.527
157	2.466
158	2.406

159	2.349
160	2.292
161	2.238
162	2.185
163	2.133
164	2.083
165	2.034
166	1.987
167	1.94
168	1.895
169	1.852
170	1.809
171	1.768
172	1.727
173	1.688
174	1.65
175	1.613
176	1.576
177	1.541
178	1.507
179	1.473
180	1.441
181	1.409
182	1.378
183	1.348
184	1.318
185	1.29
186	1.262
187	1.234
188	1.208
189	1.182

190	1.157
191	1.132
192	1.108
193	1.085
194	1.062
195	1.04
196	1.018
197	0.9969
198	0.9763
199	0.9561
200	0.9364
201	0.9172
202	0.8985
203	0.8802
204	0.8624
205	0.8449
206	0.8279
207	0.8113
208	0.7951
209	0.7793
210	0.7638
211	0.7487
212	0.7339
213	0.7195
214	0.7054
215	0.6917
216	0.6782
217	0.6651
218	0.6523
219	0.6397
220	0.6275

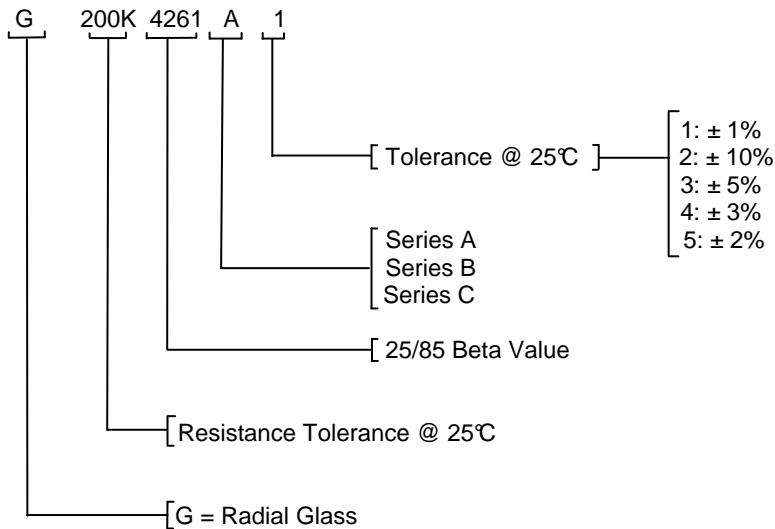
221	0.6155
222	0.6038
223	0.5923
224	0.5811
225	0.5702
226	0.5595
227	0.549
228	0.5388
229	0.5288
230	0.519
231	0.5094
232	0.5
233	0.4909
234	0.4819
235	0.4731
236	0.4645
237	0.4561
238	0.4479
239	0.4399
240	0.432
241	0.4243
242	0.4167
243	0.4094
244	0.4021
245	0.3951
246	0.3881
247	0.3813
248	0.3747
249	0.3682
250	0.3618

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ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
G200K4261A1	Radial Glass Thermistor Series A	200,000	10,000*
G200K4261B1	Radial Glass Thermistor Series B	200,000	10,000*
G200K4261C1	Radial Glass Thermistor Series C	200,000	10,000*

* For quantities less than Minimum Order Quantity – Contact Distribution



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