



MATERIAL TYPE: GC6

AVAILABLE PRODUCTS: GC32

Data for material type : G

Temp Range (°C)	Ratio	Beta
0 to 50	10.27	4111
0 to 70	22.07	4143
25 to 50	2.95	4167
25 to 85	10.71	4220
25 to 100	17.42	4239
25 to 125	36.43	4268
37.8 to 104.4	11.29	4269

To calculate Rt/R25 at temperatures other than those listed in the table, use the following equation:

$$Rt/R25 = \exp\{A + B/T + C/T^2 + D/T^3\}$$

where T = temperature in K

where K = °C + 273.15

Temp Range (°C)	A	B	C	D
0 to 50	-1.5578832E+01	5.0854037E+03	-1.0638365E+05	-7.4458816E+06
50 to 100	-1.5692664E+01	5.2035423E+03	-1.4721196E+05	-2.7476620E+06
100 to 150	-1.7080176E+01	6.8860041E+03	-8.2497620E+05	8.7984945E+07
150 to 200	-2.0242647E+01	1.1444444E+04	-2.9908697E+06	4.2788047E+08
200 to 250	-1.0287680E+01	-2.3835325E+03	3.3924483E+06	-5.5118099E+08

To calculate the actual thermistor temperature as a function of the thermistor resistance, use the following equation:

$$1/T = a + b(\ln Rt/R25) + c(\ln Rt/R25)^2 + d(\ln Rt/R25)^3$$

Rt/R25 range	a	b	c	d
3.4820 to 0.3392	3.3540155E-03	2.4268910E-04	2.5957372E-06	8.2001804E-08
0.3392 to 0.05739	3.3539077E-03	2.4248332E-04	2.4616395E-06	4.8678250E-08
0.05739 to 0.01422	3.3424110E-03	2.3262794E-04	-2.9780278E-07	-2.0267684E-07
0.01422 to 0.00463	3.2254228E-03	1.6334167E-04	-1.3665696E-05	-1.0360482E-06
0.00463 to 0.00184	3.5183500E-03	3.4063625E-04	2.1582350E-05	1.2713202E-06

†The deviation resulting from the tolerance on the material constant, Beta. The deviation must be added to the resistance tolerance of the part as specified at 25°C.

Temperature (°C)	Rt/R25 nominal	Temp Coef (%/°C)
0	3.4820	5.37%
5	2.6727	5.21%
10	2.0676	5.06%
15	1.6115	4.91%
20	1.2651	4.77%
25	1.0000	4.64%
30	0.796	4.51%
35	0.6372	4.38%
40	0.5134	4.26%
45	0.4161	4.15%
50	0.3392	4.03%
55	0.2780	3.93%
60	0.2290	3.83%
65	0.18959	3.73%
70	0.15774	3.63%
75	0.13186	3.54%
80	0.11072	3.45%
85	0.09337	3.37%
90	0.07907	3.28%
95	0.06723	3.20%
100	0.05739	3.13%
105	0.04918	3.06%
110	0.04229	2.98%
115	0.03649	2.92%
120	0.03160	2.85%
125	0.02745	2.79%
130	0.02393	2.72%
135	0.02092	2.65%
140	0.01834	2.59%
145	0.01612	2.54%
150	0.01422	2.50%
155	0.01257	2.43%
160	0.01114	2.38%
165	0.00990	2.32%
170	0.00882	2.32%
175	0.00788	2.28%
180	0.00705	2.20%
185	0.00633	2.13%
190	0.00569	2.11%
195	0.00512	2.05%
200	0.00463	2.05%
205	0.00418	2.03%
210	0.00379	1.98%
215	0.00344	1.89%
220	0.00313	1.92%
225	0.00285	1.93%
230	0.00261	1.72%
235	0.00238	1.89%
240	0.00218	1.83%
245	0.00200	1.75%
250	0.00184	1.63%