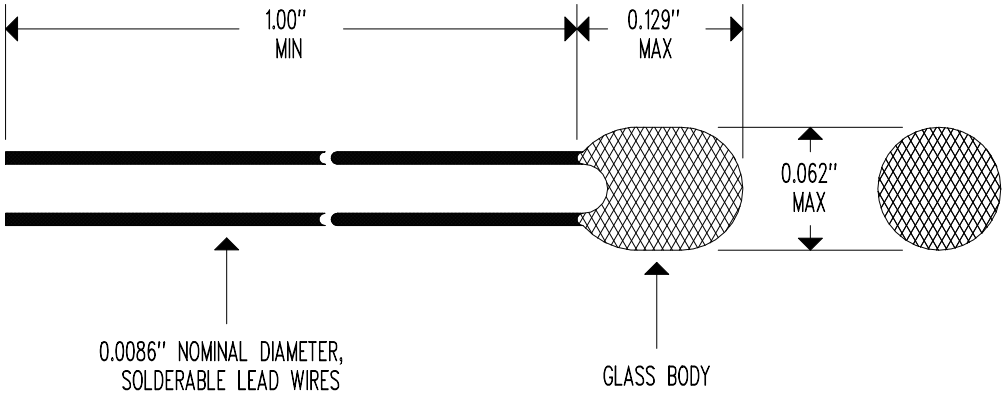

0	INITIAL RELEASE	12/11/2018	DD
REV	DESCRIPTION	DATE	APP
REVISION HISTORY			

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	DRAWN BY: DAN DANKERT	
	SCALE: NONE	LAYER: 0 OF 2
P/N EGR6221J103	REV: 0	DATE: 12/11/2018

RESISTANCE @ +25°C = 10,000 Ω ± 5%
RESISTANCE/TEMPERATURE CURVE = "21"
BETA "β" (0 TO +50°C) = 3,575°K NOMINAL
BETA "β" (+25 TO +85°C) = 3,694°K NOMINAL
TEMPERATURE COEFFICIENT @ +25°C = −4.04%/°C NOMINAL
DISSIPATION CONSTANT = 0.8 mW/°C NOMINAL (AIR)
THERMAL TIME CONSTANT = 5 SECONDS NOMINAL (AIR)
TEMPERATURE RATING = −50 TO +300°C

ROHS COMPLIANT

EI Sensor Technologies

Resistance Versus Temperature Table

P/N EGR6221J103 Revision "0"

Resistance @ +25°C = 10,000 Ω

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
-50	-58.0	44.182	441,825
-49	-56.2	41.492	414,917
-48	-54.4	38.981	389,808
-47	-52.6	36.637	366,365
-46	-50.8	34.447	344,470
-45	-49.0	32.401	324,012
-44	-47.2	30.489	304,888
-43	-45.4	28.700	287,005
-42	-43.6	27.027	270,274
-41	-41.8	25.462	254,616
-40	-40.0	23.996	239,956
-39	-38.2	22.622	226,225
-38	-36.4	21.336	213,359
-37	-34.6	20.130	201,298
-36	-32.8	18.999	189,989
-35	-31.0	17.938	179,380
-34	-29.2	16.942	169,424
-33	-27.4	16.008	160,078
-32	-25.6	15.130	151,300
-31	-23.8	14.305	143,054
-30	-22.0	13.530	135,304
-29	-20.2	12.802	128,018
-28	-18.4	12.117	121,165
-27	-16.6	11.472	114,718
-26	-14.8	10.8651	108,651
-25	-13.0	10.2938	102,938

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
-24	-11.2	9.7558	97,558
-23	-9.4	9.2490	92,490
-22	-7.6	8.7713	87,713
-21	-5.8	8.3209	83,209
-20	-4.0	7.8962	78,962
-19	-2.2	7.4955	74,955
-18	-0.4	7.1174	71,174
-17	1.4	6.7605	67,605
-16	3.2	6.4234	64,234
-15	5.0	6.1050	61,050
-14	6.8	5.8041	58,041
-13	8.6	5.5198	55,198
-12	10.4	5.2509	52,509
-11	12.2	4.9966	49,966
-10	14.0	4.7560	47,560
-9	15.8	4.5283	45,283
-8	17.6	4.3128	43,128
-7	19.4	4.1087	41,087
-6	21.2	3.9153	39,153
-5	23.0	3.7321	37,321
-4	24.8	3.5585	35,585
-3	26.6	3.3939	33,939
-2	28.4	3.2378	32,378
-1	30.2	3.0897	30,897
0	32.0	2.9492	29,492
1	33.8	2.8158	28,158
2	35.6	2.6892	26,892
3	37.4	2.5690	25,690
4	39.2	2.4548	24,548
5	41.0	2.3462	23,462
6	42.8	2.2431	22,431
7	44.6	2.1450	21,450
8	46.4	2.0518	20,518
9	48.2	1.9630	19,630
10	50.0	1.8786	18,786
11	51.8	1.7983	17,983
12	53.6	1.7218	17,218
13	55.4	1.6490	16,490
14	57.2	1.5797	15,797
15	59.0	1.5136	15,136

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
16	60.8	1.4506	14,506
17	62.6	1.3906	13,906
18	64.4	1.3334	13,334
19	66.2	1.2788	12,788
20	68.0	1.2268	12,268
21	69.8	1.1771	11,771
22	71.6	1.1297	11,297
23	73.4	1.0845	10,845
24	75.2	1.0413	10,413
25	77.0	1.0000	10,000
26	78.8	0.96059	9,605.9
27	80.6	0.92293	9,229.3
28	82.4	0.88694	8,869.4
29	84.2	0.85254	8,525.4
30	86.0	0.81965	8,196.5
31	87.8	0.78819	7,881.9
32	89.6	0.75811	7,581.1
33	91.4	0.72932	7,293.2
34	93.2	0.70177	7,017.7
35	95.0	0.67540	6,754.0
36	96.8	0.65015	6,501.5
37	98.6	0.62597	6,259.7
38	100.4	0.60281	6,028.1
39	102.2	0.58063	5,806.3
40	104.0	0.55937	5,593.7
41	105.8	0.53900	5,390.0
42	107.6	0.51947	5,194.7
43	109.4	0.50074	5,007.4
44	111.2	0.48279	4,827.9
45	113.0	0.46556	4,655.6
46	114.8	0.44904	4,490.4
47	116.6	0.43318	4,331.8
48	118.4	0.41796	4,179.6
49	120.2	0.40335	4,033.5
50	122.0	0.38932	3,893.2
51	123.8	0.37585	3,758.5
52	125.6	0.36291	3,629.1
53	127.4	0.35048	3,504.8
54	129.2	0.33853	3,385.3
55	131.0	0.32705	3,270.5

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
56	132.8	0.31602	3,160.2
57	134.6	0.30541	3,054.1
58	136.4	0.29521	2,952.1
59	138.2	0.28539	2,853.9
60	140.0	0.27596	2,759.6
61	141.8	0.26687	2,668.7
62	143.6	0.25813	2,581.3
63	145.4	0.24972	2,497.2
64	147.2	0.24163	2,416.3
65	149.0	0.23383	2,338.3
66	150.8	0.22632	2,263.2
67	152.6	0.21909	2,190.9
68	154.4	0.21213	2,121.3
69	156.2	0.20542	2,054.2
70	158.0	0.19895	1,989.5
71	159.8	0.19272	1,927.2
72	161.6	0.18671	1,867.1
73	163.4	0.18091	1,809.1
74	165.2	0.17533	1,753.3
75	167.0	0.16994	1,699.4
76	168.8	0.16475	1,647.5
77	170.6	0.15975	1,597.5
78	172.4	0.15492	1,549.2
79	174.2	0.15025	1,502.5
80	176.0	0.14575	1,457.5
81	177.8	0.14141	1,414.1
82	179.6	0.13722	1,372.2
83	181.4	0.13316	1,331.6
84	183.2	0.12925	1,292.5
85	185.0	0.12547	1,254.7
86	186.8	0.12182	1,218.2
87	188.6	0.11829	1,182.9
88	190.4	0.11488	1,148.8
89	192.2	0.11158	1,115.8
90	194.0	0.10840	1,084.0
91	195.8	0.10531	1,053.1
92	197.6	0.10233	1,023.3
93	199.4	0.09945	994.52
94	201.2	0.09666	966.64
95	203.0	0.09397	939.67

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
96	204.8	0.09136	913.57
97	206.6	0.08883	888.31
98	208.4	0.086387	863.87
99	210.2	0.084021	840.21
100	212.0	0.081730	817.30
101	213.8	0.079512	795.12
102	215.6	0.077364	773.64
103	217.4	0.075284	752.84
104	219.2	0.073269	732.69
105	221.0	0.071316	713.16
106	222.8	0.069425	694.25
107	224.6	0.067592	675.92
108	226.4	0.065815	658.15
109	228.2	0.064093	640.93
110	230.0	0.062424	624.24
111	231.8	0.060806	608.06
112	233.6	0.059236	592.36
113	235.4	0.057714	577.14
114	237.2	0.056238	562.38
115	239.0	0.054806	548.06
116	240.8	0.053417	534.17
117	242.6	0.052069	520.69
118	244.4	0.050761	507.61
119	246.2	0.049491	494.91
120	248.0	0.048259	482.59
121	249.8	0.047062	470.62
122	251.6	0.045901	459.01
123	253.4	0.044773	447.73
124	255.2	0.043678	436.78
125	257.0	0.042614	426.14
126	258.8	0.041581	415.81
127	260.6	0.040577	405.77
128	262.4	0.039602	396.02
129	264.2	0.038654	386.54
130	266.0	0.037733	377.33
131	267.8	0.036838	368.38
132	269.6	0.035968	359.68
133	271.4	0.035122	351.22
134	273.2	0.034300	343.00
135	275.0	0.033500	335.00

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
136	276.8	0.032723	327.23
137	278.6	0.031966	319.66
138	280.4	0.031231	312.31
139	282.2	0.030515	305.15
140	284.0	0.029819	298.19
141	285.8	0.029142	291.42
142	287.6	0.028483	284.83
143	289.4	0.027841	278.41
144	291.2	0.027217	272.17
145	293.0	0.026609	266.09
146	294.8	0.026017	260.17
147	296.6	0.025441	254.41
148	298.4	0.024880	248.80
149	300.2	0.024334	243.34
150	302.0	0.023802	238.02
151	303.8	0.023282	232.82
152	305.6	0.022777	227.77
153	307.4	0.022286	222.86
154	309.2	0.021807	218.07
155	311.0	0.021340	213.40
156	312.8	0.020886	208.86
157	314.6	0.020443	204.43
158	316.4	0.020011	200.11
159	318.2	0.019590	195.90
160	320.0	0.019179	191.79
161	321.8	0.018779	187.79
162	323.6	0.018389	183.89
163	325.4	0.018008	180.08
164	327.2	0.017637	176.37
165	329.0	0.017275	172.75
166	330.8	0.016922	169.22
167	332.6	0.016578	165.78
168	334.4	0.016242	162.42
169	336.2	0.015914	159.14
170	338.0	0.015594	155.94
171	339.8	0.015282	152.82
172	341.6	0.014977	149.77
173	343.4	0.014680	146.80
174	345.2	0.014389	143.89
175	347.0	0.014106	141.06

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
176	348.8	0.013829	138.29
177	350.6	0.013559	135.59
178	352.4	0.013295	132.95
179	354.2	0.013038	130.38
180	356.0	0.012786	127.86
181	357.8	0.012540	125.40
182	359.6	0.012300	123.00
183	361.4	0.012066	120.66
184	363.2	0.011836	118.36
185	365.0	0.011612	116.12
186	366.8	0.011394	113.94
187	368.6	0.011180	111.80
188	370.4	0.010971	109.71
189	372.2	0.010767	107.67
190	374.0	0.010567	105.67
191	375.8	0.010372	103.72
192	377.6	0.010181	101.81
193	379.4	0.009994	99.941
194	381.2	0.009812	98.117
195	383.0	0.009633	96.332
196	384.8	0.009459	94.587
197	386.6	0.009288	92.880
198	388.4	0.009121	91.211
199	390.2	0.008958	89.578
200	392.0	0.008798	87.980
201	393.8	0.008642	86.417
202	395.6	0.008489	84.887
203	397.4	0.008339	83.391
204	399.2	0.008193	81.926
205	401.0	0.008049	80.493
206	402.8	0.007909	79.090
207	404.6	0.007772	77.717
208	406.4	0.007637	76.373
209	408.2	0.007506	75.057
210	410.0	0.007377	73.769
211	411.8	0.007251	72.508
212	413.6	0.007127	71.273
213	415.4	0.007006	70.063
214	417.2	0.006888	68.879
215	419.0	0.006772	67.719

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
216	420.8	0.006658	66.583
217	422.6	0.006547	65.470
218	424.4	0.006438	64.379
219	426.2	0.006331	63.311
220	428.0	0.006227	62.265
221	429.8	0.006124	61.240
222	431.6	0.006024	60.235
223	433.4	0.005925	59.250
224	435.2	0.005829	58.286
225	437.0	0.005734	57.340
226	438.8	0.005641	56.412
227	440.6	0.005550	55.503
228	442.4	0.005461	54.612
229	444.2	0.005374	53.739
230	446.0	0.005288	52.883
231	447.8	0.005204	52.044
232	449.6	0.005122	51.221
233	451.4	0.005042	50.415
234	453.2	0.004962	49.624
235	455.0	0.004885	48.848
236	456.8	0.004809	48.088
237	458.6	0.004734	47.342
238	460.4	0.004661	46.611
239	462.2	0.004589	45.893
240	464.0	0.004519	45.189
241	465.8	0.004450	44.499
242	467.6	0.004382	43.822
243	469.4	0.004316	43.157
244	471.2	0.004251	42.505
245	473.0	0.004187	41.865
246	474.8	0.004124	41.237
247	476.6	0.004062	40.621
248	478.4	0.004002	40.016
249	480.2	0.003942	39.423
250	482.0	0.003884	38.840
251	483.8	0.003827	38.268
252	485.6	0.003771	37.706
253	487.4	0.003716	37.155
254	489.2	0.003661	36.614
255	491.0	0.003608	36.082

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
256	492.8	0.003556	35.560
257	494.6	0.003505	35.048
258	496.4	0.003455	34.545
259	498.2	0.003405	34.050
260	500.0	0.003357	33.565
261	501.8	0.003309	33.088
262	503.6	0.003262	32.619
263	505.4	0.003216	32.159
264	507.2	0.003171	31.707
265	509.0	0.003126	31.262
266	510.8	0.003083	30.826
267	512.6	0.003040	30.397
268	514.4	0.002998	29.975
269	516.2	0.002956	29.561
270	518.0	0.002915	29.154
271	519.8	0.002875	28.754
272	521.6	0.002836	28.360
273	523.4	0.002797	27.974
274	525.2	0.002759	27.594
275	527.0	0.002722	27.220
276	528.8	0.002685	26.853
277	530.6	0.002649	26.492
278	532.4	0.002614	26.137
279	534.2	0.002579	25.787
280	536.0	0.002544	25.444
281	537.8	0.002511	25.106
282	539.6	0.002477	24.774
283	541.4	0.002445	24.448
284	543.2	0.002413	24.127
285	545.0	0.002381	23.811
286	546.8	0.002350	23.500
287	548.6	0.002319	23.194
288	550.4	0.002289	22.894
289	552.2	0.002260	22.598
290	554.0	0.002231	22.307
291	555.8	0.002202	22.021
292	557.6	0.002174	21.739
293	559.4	0.002146	21.461
294	561.2	0.002119	21.189
295	563.0	0.002092	20.920

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
296	564.8	0.002066	20.656
297	566.6	0.002040	20.396
298	568.4	0.002014	20.140
299	570.2	0.001989	19.888
300	572.0	0.001964	19.640