



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

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	DRAWN BY: DAN DANKERT	
P/N EGR6267J105	SCALE: NONE	LAYER: 0 OF 2
	REV: 0	DATE: 12/11/2018

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RESISTANCE @ +25°C = 1,000,000 Ω ± 5%  
 RESISTANCE/TEMPERATURE CURVE = "67"  
 BETA "β" (0 TO +50°C) = 4,303°K NOMINAL  
 BETA "β" (+25 TO +85°C) = 4,415°K NOMINAL  
 TEMPERATURE COEFFICIENT @ +25°C = -4.98%/°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

# El Sensor Technologies

## Resistance Versus Temperature Table

P/N EGR6267J105 Revision "0"

Resistance @ +25°C = 1,000,000 Ω

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
-50	-58.0	93.486	93,485,700
-49	-56.2	86.771	86,771,430
-48	-54.4	80.575	80,575,270
-47	-52.6	74.855	74,854,680
-46	-50.8	69.571	69,570,810
-45	-49.0	64.688	64,688,150
-44	-47.2	60.174	60,174,270
-43	-45.4	55.999	55,999,480
-42	-43.6	52.137	52,136,640
-41	-41.8	48.561	48,560,890
-40	-40.0	45.249	45,249,480
-39	-38.2	42.182	42,181,560
-38	-36.4	39.338	39,338,020
-37	-34.6	36.701	36,701,350
-36	-32.8	34.255	34,255,480
-35	-31.0	31.986	31,985,650
-34	-29.2	29.878	29,878,330
-33	-27.4	27.921	27,921,070
-32	-25.6	26.102	26,102,460
-31	-23.8	24.412	24,411,990
-30	-22.0	22.840	22,840,000
-29	-20.2	21.378	21,377,600
-28	-18.4	20.017	20,016,610
-27	-16.6	18.750	18,749,500
-26	-14.8	17.569	17,569,330
-25	-13.0	16.470	16,469,720

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
-24	-11.2	15.445	15,444,760
-23	-9.4	14.489	14,489,020
-22	-7.6	13.597	13,597,490
-21	-5.8	12.766	12,765,530
-20	-4.0	11.989	11,988,880
-19	-2.2	11.264	11,263,590
-18	-0.4	10.586	10,586,010
-17	1.4	9.9528	9,952,760
-16	3.2	9.3607	9,360,740
-15	5.0	8.8071	8,807,050
-14	6.8	8.2890	8,289,030
-13	8.6	7.8042	7,804,210
-12	10.4	7.3503	7,350,290
-11	12.2	6.9252	6,925,160
-10	14.0	6.5269	6,526,850
-9	15.8	6.1535	6,153,530
-8	17.6	5.8035	5,803,520
-7	19.4	5.4753	5,475,260
-6	21.2	5.1673	5,167,280
-5	23.0	4.8782	4,878,220
-4	24.8	4.6069	4,606,850
-3	26.6	4.3520	4,351,990
-2	28.4	4.1126	4,112,550
-1	30.2	3.8875	3,887,540
0	32.0	3.6760	3,676,000
1	33.8	3.4771	3,477,070
2	35.6	3.2899	3,289,940
3	37.4	3.1139	3,113,850
4	39.2	2.9481	2,948,090
5	41.0	2.7920	2,792,020
6	42.8	2.6450	2,645,010
7	44.6	2.5065	2,506,500
8	46.4	2.3760	2,375,960
9	48.2	2.2529	2,252,880
10	50.0	2.1368	2,136,820
11	51.8	2.0273	2,027,330
12	53.6	1.9240	1,924,010
13	55.4	1.8265	1,826,480
14	57.2	1.7344	1,734,400
15	59.0	1.6474	1,647,430

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+ 25°C)	Resistance (Ω Nominal)
16	60.8	1.5653	1,565,260
17	62.6	1.4876	1,487,610
18	64.4	1.4142	1,414,210
19	66.2	1.3448	1,344,800
20	68.0	1.2792	1,279,150
21	69.8	1.2170	1,217,030
22	71.6	1.1583	1,158,250
23	73.4	1.1026	1,102,600
24	75.2	1.0499	1,049,910
25	77.0	1.0000	1,000,000
26	78.8	0.95275	952,750
27	80.6	0.90797	907,970
28	82.4	0.86552	865,520
29	84.2	0.82527	825,270
30	86.0	0.78710	787,100
31	87.8	0.75088	750,880
32	89.6	0.71651	716,510
33	91.4	0.68388	683,880
34	93.2	0.65290	652,900
35	95.0	0.62348	623,480
36	96.8	0.59554	595,540
37	98.6	0.56898	568,980
38	100.4	0.54374	543,740
39	102.2	0.51974	519,740
40	104.0	0.49692	496,920
41	105.8	0.47521	475,210
42	107.6	0.45456	454,560
43	109.4	0.43490	434,900
44	111.2	0.41620	416,200
45	113.0	0.39838	398,380
46	114.8	0.38142	381,420
47	116.6	0.36526	365,260
48	118.4	0.34986	349,860
49	120.2	0.33519	335,190
50	122.0	0.32120	321,200
51	123.8	0.30786	307,860
52	125.6	0.29514	295,140
53	127.4	0.28301	283,010
54	129.2	0.27143	271,430
55	131.0	0.26039	260,390

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
56	132.8	0.24984	249,840
57	134.6	0.23977	239,770
58	136.4	0.23016	230,160
59	138.2	0.22097	220,970
60	140.0	0.21220	212,200
61	141.8	0.20381	203,810
62	143.6	0.19580	195,800
63	145.4	0.18814	188,140
64	147.2	0.18081	180,810
65	149.0	0.17380	173,800
66	150.8	0.16710	167,100
67	152.6	0.16069	160,690
68	154.4	0.15455	154,550
69	156.2	0.14868	148,680
70	158.0	0.14305	143,050
71	159.8	0.13767	137,670
72	161.6	0.13251	132,510
73	163.4	0.12757	127,570
74	165.2	0.12284	122,840
75	167.0	0.11830	118,300
76	168.8	0.11395	113,950
77	170.6	0.10978	109,780
78	172.4	0.10579	105,790
79	174.2	0.10195	101,950
80	176.0	0.098270	98,270
81	177.8	0.094750	94,750
82	179.6	0.091360	91,360
83	181.4	0.088110	88,110
84	183.2	0.084990	84,990
85	185.0	0.082000	82,000
86	186.8	0.079120	79,120
87	188.6	0.076360	76,360
88	190.4	0.073710	73,710
89	192.2	0.071160	71,160
90	194.0	0.068710	68,710
91	195.8	0.066350	66,350
92	197.6	0.064090	64,090
93	199.4	0.061910	61,910
94	201.2	0.059820	59,820
95	203.0	0.057810	57,810

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
96	204.8	0.055870	55,870
97	206.6	0.054010	54,010
98	208.4	0.052220	52,220
99	210.2	0.050490	50,490
100	212.0	0.048830	48,830
101	213.8	0.047232	47,232
102	215.6	0.045693	45,693
103	217.4	0.044211	44,211
104	219.2	0.042783	42,783
105	221.0	0.041408	41,408
106	222.8	0.040083	40,083
107	224.6	0.038806	38,806
108	226.4	0.037575	37,575
109	228.2	0.036389	36,389
110	230.0	0.035245	35,245
111	231.8	0.034142	34,142
112	233.6	0.033078	33,078
113	235.4	0.032052	32,052
114	237.2	0.031063	31,063
115	239.0	0.030108	30,108
116	240.8	0.029186	29,186
117	242.6	0.028297	28,297
118	244.4	0.027438	27,438
119	246.2	0.026609	26,609
120	248.0	0.025809	25,809
121	249.8	0.025036	25,036
122	251.6	0.024289	24,289
123	253.4	0.023568	23,568
124	255.2	0.022872	22,872
125	257.0	0.022198	22,198
126	258.8	0.021548	21,548
127	260.6	0.020919	20,919
128	262.4	0.020311	20,311
129	264.2	0.019724	19,724
130	266.0	0.019155	19,155
131	267.8	0.018606	18,606
132	269.6	0.018074	18,074
133	271.4	0.017560	17,560
134	273.2	0.017063	17,063
135	275.0	0.016582	16,582

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+ 25°C)	Resistance (Ω Nominal)
136	276.8	0.016116	16,116
137	278.6	0.015665	15,665
138	280.4	0.015229	15,229
139	282.2	0.014806	14,806
140	284.0	0.014397	14,397
141	285.8	0.014001	14,001
142	287.6	0.013618	13,618
143	289.4	0.013246	13,246
144	291.2	0.012887	12,887
145	293.0	0.012538	12,538
146	294.8	0.012200	12,200
147	296.6	0.011873	11,873
148	298.4	0.011556	11,556
149	300.2	0.011248	11,248
150	302.0	0.010950	10,950
151	303.8	0.010661	10,661
152	305.6	0.010381	10,381
153	307.4	0.010109	10,109
154	309.2	0.0098454	9,845.4
155	311.0	0.0095897	9,589.7
156	312.8	0.0093417	9,341.7
157	314.6	0.0091010	9,101.0
158	316.4	0.0088676	8,867.6
159	318.2	0.0086410	8,641.0
160	320.0	0.0084210	8,421.0
161	321.8	0.0082076	8,207.6
162	323.6	0.0080004	8,000.4
163	325.4	0.0077992	7,799.2
164	327.2	0.0076038	7,603.8
165	329.0	0.0074141	7,414.1
166	330.8	0.0072299	7,229.9
167	332.6	0.0070509	7,050.9
168	334.4	0.0068771	6,877.1
169	336.2	0.0067082	6,708.2
170	338.0	0.0065442	6,544.2
171	339.8	0.0063847	6,384.7
172	341.6	0.0062298	6,229.8
173	343.4	0.0060792	6,079.2
174	345.2	0.0059328	5,932.8
175	347.0	0.0057905	5,790.5

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+ 25°C)	Resistance (Ω Nominal)
176	348.8	0.0056522	5,652.2
177	350.6	0.0055177	5,517.7
178	352.4	0.0053868	5,386.8
179	354.2	0.0052596	5,259.6
180	356.0	0.0051359	5,135.9
181	357.8	0.0050156	5,015.6
182	359.6	0.0048985	4,898.5
183	361.4	0.0047846	4,784.6
184	363.2	0.0046737	4,673.7
185	365.0	0.0045659	4,565.9
186	366.8	0.0044609	4,460.9
187	368.6	0.0043588	4,358.8
188	370.4	0.0042593	4,259.3
189	372.2	0.0041625	4,162.5
190	374.0	0.0040683	4,068.3
191	375.8	0.0039765	3,976.5
192	377.6	0.0038872	3,887.2
193	379.4	0.0038002	3,800.2
194	381.2	0.0037154	3,715.4
195	383.0	0.0036329	3,632.9
196	384.8	0.0035525	3,552.5
197	386.6	0.0034742	3,474.2
198	388.4	0.0033978	3,397.8
199	390.2	0.0033235	3,323.5
200	392.0	0.0032510	3,251.0
201	393.8	0.0031804	3,180.4
202	395.6	0.0031116	3,111.6
203	397.4	0.0030445	3,044.5
204	399.2	0.0029791	2,979.1
205	401.0	0.0029153	2,915.3
206	402.8	0.0028531	2,853.1
207	404.6	0.0027925	2,792.5
208	406.4	0.0027334	2,733.4
209	408.2	0.0026758	2,675.8
210	410.0	0.0026195	2,619.5
211	411.8	0.0025647	2,564.7
212	413.6	0.0025112	2,511.2
213	415.4	0.0024590	2,459.0
214	417.2	0.0024081	2,408.1
215	419.0	0.0023584	2,358.4



Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+ 25°C)	Resistance (Ω Nominal)
216	420.8	0.0023099	2,309.9
217	422.6	0.0022626	2,262.6
218	424.4	0.0022164	2,216.4
219	426.2	0.0021713	2,171.3
220	428.0	0.0021274	2,127.4
221	429.8	0.0020844	2,084.4
222	431.6	0.0020425	2,042.5
223	433.4	0.0020015	2,001.5
224	435.2	0.0019616	1,961.6
225	437.0	0.0019225	1,922.5
226	438.8	0.0018844	1,884.4
227	440.6	0.0018472	1,847.2
228	442.4	0.0018108	1,810.8
229	444.2	0.0017753	1,775.3
230	446.0	0.0017405	1,740.5
231	447.8	0.0017066	1,706.6
232	449.6	0.0016735	1,673.5
233	451.4	0.0016411	1,641.1
234	453.2	0.0016095	1,609.5
235	455.0	0.0015786	1,578.6
236	456.8	0.0015484	1,548.4
237	458.6	0.0015188	1,518.8
238	460.4	0.0014900	1,490.0
239	462.2	0.0014617	1,461.7
240	464.0	0.0014342	1,434.2
241	465.8	0.0014072	1,407.2
242	467.6	0.0013808	1,380.8
243	469.4	0.0013550	1,355.0
244	471.2	0.0013298	1,329.8
245	473.0	0.0013051	1,305.1
246	474.8	0.0012810	1,281.0
247	476.6	0.0012574	1,257.4
248	478.4	0.0012343	1,234.3
249	480.2	0.0012117	1,211.7
250	482.0	0.0011896	1,189.6
251	483.8	0.0011680	1,168.0
252	485.6	0.0011469	1,146.9
253	487.4	0.0011262	1,126.2
254	489.2	0.0011059	1,105.9
255	491.0	0.0010861	1,086.1

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
256	492.8	0.0010667	1,066.7
257	494.6	0.0010477	1,047.7
258	496.4	0.0010291	1,029.1
259	498.2	0.0010109	1,010.9
260	500.0	0.00099310	993.10
261	501.8	0.00097566	975.66
262	503.6	0.00095858	958.58
263	505.4	0.00094186	941.86
264	507.2	0.00092548	925.48
265	509.0	0.00090945	909.45
266	510.8	0.00089374	893.74
267	512.6	0.00087836	878.36
268	514.4	0.00086329	863.29
269	516.2	0.00084853	848.53
270	518.0	0.00083407	834.07
271	519.8	0.00081990	819.90
272	521.6	0.00080602	806.02
273	523.4	0.00079242	792.42
274	525.2	0.00077910	779.10
275	527.0	0.00076604	766.04
276	528.8	0.00075324	753.24
277	530.6	0.00074070	740.70
278	532.4	0.00072841	728.41
279	534.2	0.00071636	716.36
280	536.0	0.00070455	704.55
281	537.8	0.00069297	692.97
282	539.6	0.00068162	681.62
283	541.4	0.00067049	670.49
284	543.2	0.00065958	659.58
285	545.0	0.00064888	648.88
286	546.8	0.00063839	638.39
287	548.6	0.00062811	628.11
288	550.4	0.00061802	618.02
289	552.2	0.00060812	608.12
290	554.0	0.00059842	598.42
291	555.8	0.00058890	588.90
292	557.6	0.00057956	579.56
293	559.4	0.00057040	570.40
294	561.2	0.00056141	561.41
295	563.0	0.00055260	552.60

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
296	564.8	0.00054395	543.95
297	566.6	0.00053546	535.46
298	568.4	0.00052713	527.13
299	570.2	0.00051896	518.96
300	572.0	0.00051093	510.93