



RESISTANCE @ +25°C = 250,000 Ω ± 5%
 RESISTANCE/TEMPERATURE CURVE = "30"
 BETA "β" (0 TO +50°C) = 3,892°K NOMINAL
 TEMPERATURE COEFFICIENT @ +25°C = -4.39%/°C NOMINAL
 DISSIPATION CONSTANT = 2 mW/°C NOMINAL (AIR)
 THERMAL TIME CONSTANT = 10 SECONDS NOMINAL (AIR)
 MAXIMUM TEMPERATURE RATING = +300°C

ROHS COMPLIANT

PACKAGING: SEE TABLE

PART NUMBER	PACKAGING
ED3530J254-B	BULK
ED3530J254-T	TAPE & REEL PER IEC 60286-1

REV	DESCRIPTION	DATE	APP
0	INITIAL RELEASE	11/19/2018	DD

REVISION HISTORY

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	DRAWN BY: DAN DANKERT	
P/N ED3530J254	SCALE: NONE	LAYER: 0 OF 2
	REV: 0	DATE: 11/19/2018

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El Sensor Technologies

Resistance Versus Temperature Table

P/N ED3530J254 Revision "0"

Resistance @ +25°C = 250,000 Ω

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
-55	-67.0	95.9640	23,991,000
-54	-65.2	89.1579	22,289,475
-53	-63.4	82.8783	20,719,575
-52	-61.6	77.0814	19,270,350
-51	-59.8	71.7271	17,931,775
-50	-58.0	66.7790	16,694,750
-49	-56.2	62.2034	15,550,850
-48	-54.4	57.9704	14,492,600
-47	-52.6	54.0522	13,513,050
-46	-50.8	50.4235	12,605,875
-45	-49.0	47.0614	11,765,350
-44	-47.2	43.9446	10,986,150
-43	-45.4	41.0538	10,263,450
-42	-43.6	38.3713	9,592,825
-41	-41.8	35.8808	8,970,200
-40	-40.0	33.5676	8,391,900
-39	-38.2	31.4180	7,854,500
-38	-36.4	29.4194	7,354,850
-37	-34.6	27.5603	6,890,075
-36	-32.8	25.8303	6,457,575
-35	-31.0	24.2196	6,054,900
-34	-29.2	22.7193	5,679,825
-33	-27.4	21.3212	5,330,300
-32	-25.6	20.0177	5,004,425
-31	-23.8	18.8020	4,700,500
-30	-22.0	17.6675	4,416,875

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
-29	-20.2	16.6084	4,152,100
-28	-18.4	15.6193	3,904,825
-27	-16.6	14.6952	3,673,800
-26	-14.8	13.8314	3,457,850
-25	-13.0	13.0235	3,255,875
-24	-11.2	12.2678	3,066,950
-23	-9.4	11.5605	2,890,125
-22	-7.6	10.8983	2,724,575
-21	-5.8	10.2780	2,569,500
-20	-4.0	9.6967	2,424,175
-19	-2.2	9.1518	2,287,950
-18	-0.4	8.6408	2,160,200
-17	1.4	8.1614	2,040,350
-16	3.2	7.7115	1,927,875
-15	5.0	7.2890	1,822,250
-14	6.8	6.8922	1,723,050
-13	8.6	6.5194	1,629,850
-12	10.4	6.1689	1,542,225
-11	12.2	5.8394	1,459,850
-10	14.0	5.5294	1,382,350
-9	15.8	5.2377	1,309,425
-8	17.6	4.9631	1,240,775
-7	19.4	4.7045	1,176,125
-6	21.2	4.4609	1,115,225
-5	23.0	4.2313	1,057,825
-4	24.8	4.0149	1,003,725
-3	26.6	3.8108	952,700
-2	28.4	3.6183	904,575
-1	30.2	3.4366	859,150
0	32.0	3.2651	816,275
1	33.8	3.1031	775,778
2	35.6	2.9501	737,523
3	37.4	2.8055	701,373
4	39.2	2.6688	667,203
5	41.0	2.5396	634,890
6	42.8	2.4173	604,330
7	44.6	2.3017	575,413
8	46.4	2.1922	548,045
9	48.2	2.0885	522,135
10	50.0	1.9904	497,595

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
11	51.8	1.8974	474,348
12	53.6	1.8093	452,318
13	55.4	1.7257	431,433
14	57.2	1.6465	411,633
15	59.0	1.5714	392,850
16	60.8	1.5001	375,030
17	62.6	1.4325	358,120
18	64.4	1.3683	342,065
19	66.2	1.3073	326,818
20	68.0	1.2494	312,338
21	69.8	1.1943	298,578
22	71.6	1.1420	285,500
23	73.4	1.0923	273,068
24	75.2	1.0450	261,245
25	77.0	1.0000	250,000
26	78.8	0.95720	239,300
27	80.6	0.91647	229,118
28	82.4	0.87769	219,423
29	84.2	0.84077	210,193
30	86.0	0.80560	201,400
31	87.8	0.77209	193,023
32	89.6	0.74016	185,040
33	91.4	0.70972	177,430
34	93.2	0.68069	170,173
35	95.0	0.65302	163,255
36	96.8	0.62661	156,653
37	98.6	0.60141	150,353
38	100.4	0.57737	144,343
39	102.2	0.55441	138,603
40	104.0	0.53249	133,123
41	105.8	0.51155	127,888
42	107.6	0.49155	122,888
43	109.4	0.47243	118,108
44	111.2	0.45416	113,540
45	113.0	0.43669	109,173
46	114.8	0.41999	104,998
47	116.6	0.40401	101,003
48	118.4	0.38873	97,183
49	120.2	0.37410	93,525
50	122.0	0.36010	90,025

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
51	123.8	0.34670	86,675
52	125.6	0.33386	83,465
53	127.4	0.32157	80,393
54	129.2	0.30979	77,448
55	131.0	0.29851	74,628
56	132.8	0.28770	71,925
57	134.6	0.27733	69,333
58	136.4	0.26739	66,848
59	138.2	0.25786	64,465
60	140.0	0.24871	62,178
61	141.8	0.23994	59,985
62	143.6	0.23152	57,880
63	145.4	0.22344	55,860
64	147.2	0.21568	53,920
65	149.0	0.20823	52,058
66	150.8	0.20108	50,270
67	152.6	0.19421	48,553
68	154.4	0.18761	46,903
69	156.2	0.18126	45,315
70	158.0	0.17516	43,790
71	159.8	0.16930	42,325
72	161.6	0.16366	40,915
73	163.4	0.15824	39,560
74	165.2	0.15303	38,258
75	167.0	0.14801	37,003
76	168.8	0.14320	35,800
77	170.6	0.13856	34,641
78	172.4	0.13410	33,526
79	174.2	0.12980	32,451
80	176.0	0.12566	31,416
81	177.8	0.12167	30,418
82	179.6	0.11783	29,457
83	181.4	0.11412	28,531
84	183.2	0.11055	27,638
85	185.0	0.10711	26,777
86	186.8	0.10379	25,947
87	188.6	0.10059	25,147
88	190.4	0.097500	24,375
89	192.2	0.094522	23,631
90	194.0	0.091648	22,912

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
91	195.8	0.088876	22,219
92	197.6	0.086200	21,550
93	199.4	0.083618	20,905
94	201.2	0.081125	20,281
95	203.0	0.078718	19,680
96	204.8	0.076394	19,099
97	206.6	0.074150	18,538
98	208.4	0.071982	17,996
99	210.2	0.069888	17,472
100	212.0	0.067865	16,966
101	213.8	0.065910	16,478
102	215.6	0.064021	16,005
103	217.4	0.062194	15,549
104	219.2	0.060429	15,107
105	221.0	0.058722	14,681
106	222.8	0.057071	14,268
107	224.6	0.055475	13,869
108	226.4	0.053931	13,483
109	228.2	0.052438	13,110
110	230.0	0.050992	12,748
111	231.8	0.049594	12,399
112	233.6	0.048241	12,060
113	235.4	0.046931	11,733
114	237.2	0.045662	11,416
115	239.0	0.044435	11,109
116	240.8	0.043246	10,812
117	242.6	0.042094	10,524
118	244.4	0.040979	10,245
119	246.2	0.039899	9,974.8
120	248.0	0.038852	9,713.0
121	249.8	0.037838	9,459.5
122	251.6	0.036855	9,213.8
123	253.4	0.035902	8,975.5
124	255.2	0.034978	8,744.5
125	257.0	0.034083	8,520.8
126	258.8	0.033215	8,303.8
127	260.6	0.032373	8,093.3
128	262.4	0.031556	7,889.0
129	264.2	0.030764	7,691.0
130	266.0	0.029996	7,499.0

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
131	267.8	0.029250	7,312.5
132	269.6	0.028527	7,131.8
133	271.4	0.027824	6,956.0
134	273.2	0.027143	6,785.8
135	275.0	0.026481	6,620.3
136	276.8	0.025839	6,459.8
137	278.6	0.025215	6,303.8
138	280.4	0.024610	6,152.5
139	282.2	0.024021	6,005.3
140	284.0	0.023450	5,862.5
141	285.8	0.022895	5,723.8
142	287.6	0.022355	5,588.8
143	289.4	0.021831	5,457.8
144	291.2	0.021322	5,330.5
145	293.0	0.020827	5,206.8
146	294.8	0.020345	5,086.3
147	296.6	0.019878	4,969.5
148	298.4	0.019423	4,855.8
149	300.2	0.018980	4,745.0
150	302.0	0.018550	4,637.5
151	303.8	0.018119	4,529.9
152	305.6	0.017701	4,425.3
153	307.4	0.017294	4,323.6
154	309.2	0.016899	4,224.8
155	311.0	0.016515	4,128.7
156	312.8	0.016141	4,035.3
157	314.6	0.015778	3,944.5
158	316.4	0.015425	3,856.2
159	318.2	0.015081	3,770.2
160	320.0	0.014747	3,686.6
161	321.8	0.014421	3,605.3
162	323.6	0.014105	3,526.1
163	325.4	0.013796	3,449.1
164	327.2	0.013496	3,374.1
165	329.0	0.013204	3,301.1
166	330.8	0.012920	3,230.0
167	332.6	0.012643	3,160.8
168	334.4	0.012373	3,093.4
169	336.2	0.012111	3,027.7
170	338.0	0.011855	2,963.7

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
171	339.8	0.011606	2,901.4
172	341.6	0.011363	2,840.6
173	343.4	0.011126	2,781.5
174	345.2	0.010895	2,723.8
175	347.0	0.010670	2,667.5
176	348.8	0.010451	2,612.7
177	350.6	0.010237	2,559.2
178	352.4	0.010028	2,507.1
179	354.2	0.009825	2,456.2
180	356.0	0.009627	2,406.6
181	357.8	0.009433	2,358.3
182	359.6	0.009244	2,311.1
183	361.4	0.009060	2,265.0
184	363.2	0.008880	2,220.1
185	365.0	0.008705	2,176.2
186	366.8	0.008534	2,133.4
187	368.6	0.008367	2,091.6
188	370.4	0.008203	2,050.8
189	372.2	0.008044	2,011.0
190	374.0	0.007889	1,972.1
191	375.8	0.007737	1,934.2
192	377.6	0.007588	1,897.1
193	379.4	0.007443	1,860.8
194	381.2	0.007302	1,825.5
195	383.0	0.007164	1,790.9
196	384.8	0.007028	1,757.1
197	386.6	0.006896	1,724.1
198	388.4	0.006767	1,691.8
199	390.2	0.006641	1,660.3
200	392.0	0.006518	1,629.5
201	393.8	0.006398	1,599.4
202	395.6	0.006280	1,570.0
203	397.4	0.006165	1,541.2
204	399.2	0.006052	1,513.0
205	401.0	0.005942	1,485.5
206	402.8	0.005834	1,458.6
207	404.6	0.005729	1,432.2
208	406.4	0.005626	1,406.5
209	408.2	0.005525	1,381.3
210	410.0	0.005427	1,356.7

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+ 25°C)	Resistance (Ω Nominal)
211	411.8	0.005330	1,332.6
212	413.6	0.005236	1,309.0
213	415.4	0.005143	1,285.9
214	417.2	0.005053	1,263.3
215	419.0	0.004965	1,241.2
216	420.8	0.004878	1,219.5
217	422.6	0.004793	1,198.3
218	424.4	0.004710	1,177.6
219	426.2	0.004629	1,157.3
220	428.0	0.004550	1,137.4
221	429.8	0.004472	1,117.9
222	431.6	0.004396	1,098.9
223	433.4	0.004321	1,080.2
224	435.2	0.004248	1,061.9
225	437.0	0.004176	1,044.0
226	438.8	0.004106	1,026.5
227	440.6	0.004037	1,009.3
228	442.4	0.003970	992.45
229	444.2	0.003904	975.98
230	446.0	0.003839	959.83
231	447.8	0.003776	944.03
232	449.6	0.003714	928.55
233	451.4	0.003654	913.38
234	453.2	0.003594	898.50
235	455.0	0.003536	883.93
236	456.8	0.003479	869.68
237	458.6	0.003423	855.68
238	460.4	0.003368	841.98
239	462.2	0.003314	828.53
240	464.0	0.003262	815.38
241	465.8	0.003210	802.45
242	467.6	0.003159	789.80
243	469.4	0.003110	777.40
244	471.2	0.003061	765.23
245	473.0	0.003013	753.30
246	474.8	0.002966	741.60
247	476.6	0.002921	730.13
248	478.4	0.002876	718.88
249	480.2	0.002831	707.83
250	482.0	0.002788	697.00

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
251	483.8	0.002746	686.38
252	485.6	0.002704	675.95
253	487.4	0.002663	665.73
254	489.2	0.002623	655.70
255	491.0	0.002583	645.85
256	492.8	0.002545	636.20
257	494.6	0.002507	626.73
258	496.4	0.002470	617.43
259	498.2	0.002433	608.28
260	500.0	0.002397	599.33
261	501.8	0.002362	590.53
262	503.6	0.002328	581.88
263	505.4	0.002294	573.40
264	507.2	0.002260	565.08
265	509.0	0.002228	556.90
266	510.8	0.002196	548.88
267	512.6	0.002164	540.98
268	514.4	0.002133	533.25
269	516.2	0.002103	525.63
270	518.0	0.002073	518.18
271	519.8	0.002043	510.83
272	521.6	0.002015	503.63
273	523.4	0.001986	496.55
274	525.2	0.001958	489.58
275	527.0	0.001931	482.75
276	528.8	0.001904	476.03
277	530.6	0.001878	469.43
278	532.4	0.001852	462.95
279	534.2	0.001826	456.58
280	536.0	0.001801	450.33
281	537.8	0.001777	444.15
282	539.6	0.001752	438.10
283	541.4	0.001729	432.18
284	543.2	0.001705	426.33
285	545.0	0.001682	420.58
286	546.8	0.001660	414.93
287	548.6	0.001638	409.38
288	550.4	0.001616	403.90
289	552.2	0.001594	398.53
290	554.0	0.001573	393.25

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
291	555.8	0.001552	388.08
292	557.6	0.001532	382.95
293	559.4	0.001512	377.93
294	561.2	0.001492	373.00
295	563.0	0.001473	368.13
296	564.8	0.001453	363.35
297	566.6	0.001435	358.65
298	568.4	0.001416	354.03
299	570.2	0.001398	349.48
300	572.0	0.001380	345.00