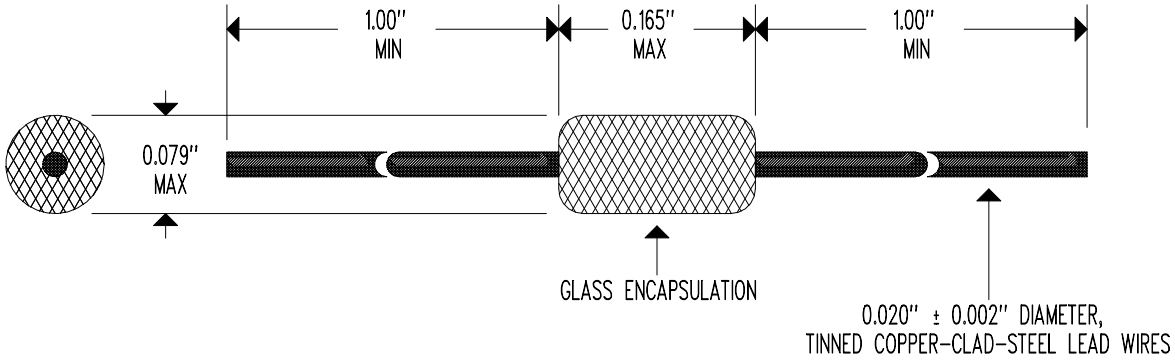

REV	DESCRIPTION	DATE	APP
0	INITIAL RELEASE	11/19/2018	DD

REVISION HISTORY

RESISTANCE @ +25°C = 30,000 Ω ± 1%
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
ED3530F303-B	BULK
ED3530F303-T	TAPE & REEL PER IEC 60286-1

EI SENSOR TECHNOLOGIES
www.ei-sensor.com

P/N ED3530F303

NTC THERMISTOR

DRAWN BY: DAN DANKERT

SCALE: NONE | LAYER: 0 OF 2

REV: 0 | DATE: 11/19/2018

EI Sensor Technologies

Resistance Versus Temperature Table

P/N ED3530F303 Revision "0"

Resistance @ +25°C = 30,000 Ω

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
-55	-67.0	95.9640	2,878,920
-54	-65.2	89.1579	2,674,737
-53	-63.4	82.8783	2,486,349
-52	-61.6	77.0814	2,312,442
-51	-59.8	71.7271	2,151,813
-50	-58.0	66.7790	2,003,370
-49	-56.2	62.2034	1,866,102
-48	-54.4	57.9704	1,739,112
-47	-52.6	54.0522	1,621,566
-46	-50.8	50.4235	1,512,705
-45	-49.0	47.0614	1,411,842
-44	-47.2	43.9446	1,318,338
-43	-45.4	41.0538	1,231,614
-42	-43.6	38.3713	1,151,139
-41	-41.8	35.8808	1,076,424
-40	-40.0	33.5676	1,007,028
-39	-38.2	31.4180	942,540
-38	-36.4	29.4194	882,582
-37	-34.6	27.5603	826,809
-36	-32.8	25.8303	774,909
-35	-31.0	24.2196	726,588
-34	-29.2	22.7193	681,579
-33	-27.4	21.3212	639,636
-32	-25.6	20.0177	600,531
-31	-23.8	18.8020	564,060
-30	-22.0	17.6675	530,025

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
-29	-20.2	16.6084	498,252
-28	-18.4	15.6193	468,579
-27	-16.6	14.6952	440,856
-26	-14.8	13.8314	414,942
-25	-13.0	13.0235	390,705
-24	-11.2	12.2678	368,034
-23	-9.4	11.5605	346,815
-22	-7.6	10.8983	326,949
-21	-5.8	10.2780	308,340
-20	-4.0	9.6967	290,901
-19	-2.2	9.1518	274,554
-18	-0.4	8.6408	259,224
-17	1.4	8.1614	244,842
-16	3.2	7.7115	231,345
-15	5.0	7.2890	218,670
-14	6.8	6.8922	206,766
-13	8.6	6.5194	195,582
-12	10.4	6.1689	185,067
-11	12.2	5.8394	175,182
-10	14.0	5.5294	165,882
-9	15.8	5.2377	157,131
-8	17.6	4.9631	148,893
-7	19.4	4.7045	141,135
-6	21.2	4.4609	133,827
-5	23.0	4.2313	126,939
-4	24.8	4.0149	120,447
-3	26.6	3.8108	114,324
-2	28.4	3.6183	108,549
-1	30.2	3.4366	103,098
0	32.0	3.2651	97,953
1	33.8	3.1031	93,093
2	35.6	2.9501	88,503
3	37.4	2.8055	84,165
4	39.2	2.6688	80,064
5	41.0	2.5396	76,187
6	42.8	2.4173	72,520
7	44.6	2.3017	69,050
8	46.4	2.1922	65,765
9	48.2	2.0885	62,656
10	50.0	1.9904	59,711

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
11	51.8	1.8974	56,922
12	53.6	1.8093	54,278
13	55.4	1.7257	51,772
14	57.2	1.6465	49,396
15	59.0	1.5714	47,142
16	60.8	1.5001	45,004
17	62.6	1.4325	42,974
18	64.4	1.3683	41,048
19	66.2	1.3073	39,218
20	68.0	1.2494	37,481
21	69.8	1.1943	35,829
22	71.6	1.1420	34,260
23	73.4	1.0923	32,768
24	75.2	1.0450	31,349
25	77.0	1.0000	30,000
26	78.8	0.95720	28,716
27	80.6	0.91647	27,494
28	82.4	0.87769	26,331
29	84.2	0.84077	25,223
30	86.0	0.80560	24,168
31	87.8	0.77209	23,163
32	89.6	0.74016	22,205
33	91.4	0.70972	21,292
34	93.2	0.68069	20,421
35	95.0	0.65302	19,591
36	96.8	0.62661	18,798
37	98.6	0.60141	18,042
38	100.4	0.57737	17,321
39	102.2	0.55441	16,632
40	104.0	0.53249	15,975
41	105.8	0.51155	15,347
42	107.6	0.49155	14,747
43	109.4	0.47243	14,173
44	111.2	0.45416	13,625
45	113.0	0.43669	13,101
46	114.8	0.41999	12,600
47	116.6	0.40401	12,120
48	118.4	0.38873	11,662
49	120.2	0.37410	11,223
50	122.0	0.36010	10,803

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
51	123.8	0.34670	10,401
52	125.6	0.33386	10,016
53	127.4	0.32157	9,647.1
54	129.2	0.30979	9,293.7
55	131.0	0.29851	8,955.3
56	132.8	0.28770	8,631.0
57	134.6	0.27733	8,319.9
58	136.4	0.26739	8,021.7
59	138.2	0.25786	7,735.8
60	140.0	0.24871	7,461.3
61	141.8	0.23994	7,198.2
62	143.6	0.23152	6,945.6
63	145.4	0.22344	6,703.2
64	147.2	0.21568	6,470.4
65	149.0	0.20823	6,246.9
66	150.8	0.20108	6,032.4
67	152.6	0.19421	5,826.3
68	154.4	0.18761	5,628.3
69	156.2	0.18126	5,437.8
70	158.0	0.17516	5,254.8
71	159.8	0.16930	5,079.0
72	161.6	0.16366	4,909.8
73	163.4	0.15824	4,747.2
74	165.2	0.15303	4,590.9
75	167.0	0.14801	4,440.3
76	168.8	0.14320	4,295.9
77	170.6	0.13856	4,156.9
78	172.4	0.13410	4,023.1
79	174.2	0.12980	3,894.1
80	176.0	0.12566	3,769.9
81	177.8	0.12167	3,650.2
82	179.6	0.11783	3,534.9
83	181.4	0.11412	3,423.7
84	183.2	0.11055	3,316.6
85	185.0	0.10711	3,213.3
86	186.8	0.10379	3,113.7
87	188.6	0.10059	3,017.6
88	190.4	0.097500	2,925.0
89	192.2	0.094522	2,835.7
90	194.0	0.091648	2,749.4

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
91	195.8	0.088876	2,666.3
92	197.6	0.086200	2,586.0
93	199.4	0.083618	2,508.5
94	201.2	0.081125	2,433.8
95	203.0	0.078718	2,361.5
96	204.8	0.076394	2,291.8
97	206.6	0.074150	2,224.5
98	208.4	0.071982	2,159.5
99	210.2	0.069888	2,096.6
100	212.0	0.067865	2,036.0
101	213.8	0.065910	1,977.3
102	215.6	0.064021	1,920.6
103	217.4	0.062194	1,865.8
104	219.2	0.060429	1,812.9
105	221.0	0.058722	1,761.7
106	222.8	0.057071	1,712.1
107	224.6	0.055475	1,664.3
108	226.4	0.053931	1,617.9
109	228.2	0.052438	1,573.1
110	230.0	0.050992	1,529.8
111	231.8	0.049594	1,487.8
112	233.6	0.048241	1,447.2
113	235.4	0.046931	1,407.9
114	237.2	0.045662	1,369.9
115	239.0	0.044435	1,333.1
116	240.8	0.043246	1,297.4
117	242.6	0.042094	1,262.8
118	244.4	0.040979	1,229.4
119	246.2	0.039899	1,197.0
120	248.0	0.038852	1,165.6
121	249.8	0.037838	1,135.1
122	251.6	0.036855	1,105.7
123	253.4	0.035902	1,077.1
124	255.2	0.034978	1,049.3
125	257.0	0.034083	1,022.5
126	258.8	0.033215	996.45
127	260.6	0.032373	971.19
128	262.4	0.031556	946.68
129	264.2	0.030764	922.92
130	266.0	0.029996	899.88

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
131	267.8	0.029250	877.50
132	269.6	0.028527	855.81
133	271.4	0.027824	834.72
134	273.2	0.027143	814.29
135	275.0	0.026481	794.43
136	276.8	0.025839	775.17
137	278.6	0.025215	756.45
138	280.4	0.024610	738.30
139	282.2	0.024021	720.63
140	284.0	0.023450	703.50
141	285.8	0.022895	686.85
142	287.6	0.022355	670.65
143	289.4	0.021831	654.93
144	291.2	0.021322	639.66
145	293.0	0.020827	624.81
146	294.8	0.020345	610.35
147	296.6	0.019878	596.34
148	298.4	0.019423	582.69
149	300.2	0.018980	569.40
150	302.0	0.018550	556.50
151	303.8	0.018119	543.58
152	305.6	0.017701	531.03
153	307.4	0.017294	518.83
154	309.2	0.016899	506.97
155	311.0	0.016515	495.44
156	312.8	0.016141	484.24
157	314.6	0.015778	473.34
158	316.4	0.015425	462.74
159	318.2	0.015081	452.43
160	320.0	0.014747	442.40
161	321.8	0.014421	432.63
162	323.6	0.014105	423.14
163	325.4	0.013796	413.89
164	327.2	0.013496	404.89
165	329.0	0.013204	396.13
166	330.8	0.012920	387.60
167	332.6	0.012643	379.29
168	334.4	0.012373	371.20
169	336.2	0.012111	363.32
170	338.0	0.011855	355.64

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
171	339.8	0.011606	348.17
172	341.6	0.011363	340.88
173	343.4	0.011126	333.77
174	345.2	0.010895	326.85
175	347.0	0.010670	320.10
176	348.8	0.010451	313.52
177	350.6	0.010237	307.10
178	352.4	0.010028	300.85
179	354.2	0.009825	294.75
180	356.0	0.009627	288.80
181	357.8	0.009433	282.99
182	359.6	0.009244	277.33
183	361.4	0.009060	271.80
184	363.2	0.008880	266.41
185	365.0	0.008705	261.15
186	366.8	0.008534	256.01
187	368.6	0.008367	251.00
188	370.4	0.008203	246.10
189	372.2	0.008044	241.32
190	374.0	0.007889	236.66
191	375.8	0.007737	232.10
192	377.6	0.007588	227.65
193	379.4	0.007443	223.30
194	381.2	0.007302	219.05
195	383.0	0.007164	214.91
196	384.8	0.007028	210.85
197	386.6	0.006896	206.89
198	388.4	0.006767	203.02
199	390.2	0.006641	199.24
200	392.0	0.006518	195.54
201	393.8	0.006398	191.93
202	395.6	0.006280	188.39
203	397.4	0.006165	184.94
204	399.2	0.006052	181.56
205	401.0	0.005942	178.26
206	402.8	0.005834	175.03
207	404.6	0.005729	171.87
208	406.4	0.005626	168.78
209	408.2	0.005525	165.76
210	410.0	0.005427	162.80

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
211	411.8	0.005330	159.91
212	413.6	0.005236	157.07
213	415.4	0.005143	154.30
214	417.2	0.005053	151.59
215	419.0	0.004965	148.94
216	420.8	0.004878	146.34
217	422.6	0.004793	143.80
218	424.4	0.004710	141.31
219	426.2	0.004629	138.87
220	428.0	0.004550	136.49
221	429.8	0.004472	134.15
222	431.6	0.004396	131.87
223	433.4	0.004321	129.62
224	435.2	0.004248	127.43
225	437.0	0.004176	125.28
226	438.8	0.004106	123.17
227	440.6	0.004037	121.11
228	442.4	0.003970	119.09
229	444.2	0.003904	117.12
230	446.0	0.003839	115.18
231	447.8	0.003776	113.28
232	449.6	0.003714	111.43
233	451.4	0.003654	109.61
234	453.2	0.003594	107.82
235	455.0	0.003536	106.07
236	456.8	0.003479	104.36
237	458.6	0.003423	102.68
238	460.4	0.003368	101.04
239	462.2	0.003314	99.423
240	464.0	0.003262	97.845
241	465.8	0.003210	96.294
242	467.6	0.003159	94.776
243	469.4	0.003110	93.288
244	471.2	0.003061	91.827
245	473.0	0.003013	90.396
246	474.8	0.002966	88.992
247	476.6	0.002921	87.615
248	478.4	0.002876	86.265
249	480.2	0.002831	84.939
250	482.0	0.002788	83.640

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
251	483.8	0.002746	82.365
252	485.6	0.002704	81.114
253	487.4	0.002663	79.887
254	489.2	0.002623	78.684
255	491.0	0.002583	77.502
256	492.8	0.002545	76.344
257	494.6	0.002507	75.207
258	496.4	0.002470	74.091
259	498.2	0.002433	72.993
260	500.0	0.002397	71.919
261	501.8	0.002362	70.863
262	503.6	0.002328	69.825
263	505.4	0.002294	68.808
264	507.2	0.002260	67.809
265	509.0	0.002228	66.828
266	510.8	0.002196	65.865
267	512.6	0.002164	64.917
268	514.4	0.002133	63.990
269	516.2	0.002103	63.075
270	518.0	0.002073	62.181
271	519.8	0.002043	61.299
272	521.6	0.002015	60.435
273	523.4	0.001986	59.586
274	525.2	0.001958	58.749
275	527.0	0.001931	57.930
276	528.8	0.001904	57.123
277	530.6	0.001878	56.331
278	532.4	0.001852	55.554
279	534.2	0.001826	54.789
280	536.0	0.001801	54.039
281	537.8	0.001777	53.298
282	539.6	0.001752	52.572
283	541.4	0.001729	51.861
284	543.2	0.001705	51.159
285	545.0	0.001682	50.469
286	546.8	0.001660	49.791
287	548.6	0.001638	49.125
288	550.4	0.001616	48.468
289	552.2	0.001594	47.823
290	554.0	0.001573	47.190

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
291	555.8	0.001552	46.569
292	557.6	0.001532	45.954
293	559.4	0.001512	45.351
294	561.2	0.001492	44.760
295	563.0	0.001473	44.175
296	564.8	0.001453	43.602
297	566.6	0.001435	43.038
298	568.4	0.001416	42.483
299	570.2	0.001398	41.937
300	572.0	0.001380	41.400