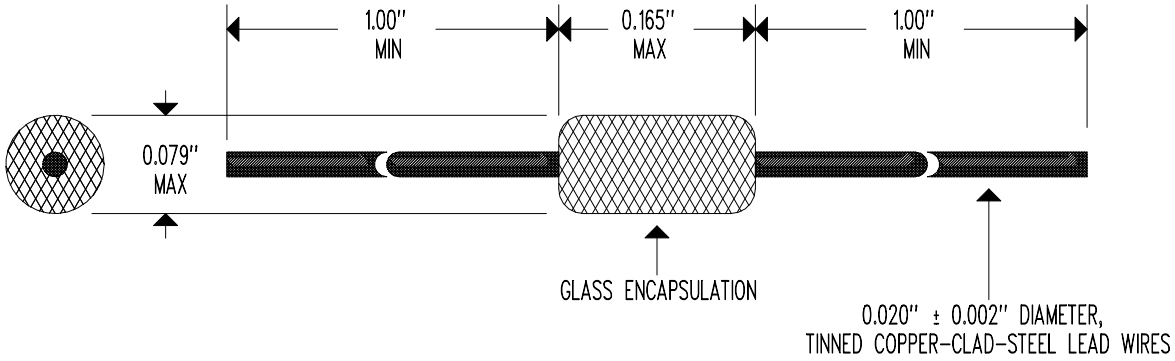

RESISTANCE @ +25°C = 25,000 Ω ± 1%
RESISTANCE/TEMPERATURE CURVE = "30"
BETA "β" (0 TO +50°C) = 3,892°K NOMINAL
TEMPERATURE COEFFICIENT @ +25°C = −4.39%/°C NOMINAL
DISSIPATION CONSTANT = 2 mW/°C NOMINAL (AIR)
THERMAL TIME CONSTANT = 10 SECONDS NOMINAL (AIR)
MAXIMUM TEMPERATURE RATING = +300°C

ROHS COMPLIANT

PACKAGING: SEE TABLE

PART NUMBER	PACKAGING
ED3530F253-B	BULK
ED3530F253-T	TAPE & REEL PER IEC 60286-1

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

REVISION HISTORY

EI SENSOR TECHNOLOGIES
www.ei-sensor.com

P/N ED3530F253

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 ED3530F253 Revision "0"

Resistance @ +25°C = 25,000 Ω

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
-55	-67.0	95.9640	2,399,100
-54	-65.2	89.1579	2,228,948
-53	-63.4	82.8783	2,071,958
-52	-61.6	77.0814	1,927,035
-51	-59.8	71.7271	1,793,178
-50	-58.0	66.7790	1,669,475
-49	-56.2	62.2034	1,555,085
-48	-54.4	57.9704	1,449,260
-47	-52.6	54.0522	1,351,305
-46	-50.8	50.4235	1,260,588
-45	-49.0	47.0614	1,176,535
-44	-47.2	43.9446	1,098,615
-43	-45.4	41.0538	1,026,345
-42	-43.6	38.3713	959,283
-41	-41.8	35.8808	897,020
-40	-40.0	33.5676	839,190
-39	-38.2	31.4180	785,450
-38	-36.4	29.4194	735,485
-37	-34.6	27.5603	689,008
-36	-32.8	25.8303	645,758
-35	-31.0	24.2196	605,490
-34	-29.2	22.7193	567,983
-33	-27.4	21.3212	533,030
-32	-25.6	20.0177	500,443
-31	-23.8	18.8020	470,050
-30	-22.0	17.6675	441,688

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
-29	-20.2	16.6084	415,210
-28	-18.4	15.6193	390,483
-27	-16.6	14.6952	367,380
-26	-14.8	13.8314	345,785
-25	-13.0	13.0235	325,588
-24	-11.2	12.2678	306,695
-23	-9.4	11.5605	289,013
-22	-7.6	10.8983	272,458
-21	-5.8	10.2780	256,950
-20	-4.0	9.6967	242,418
-19	-2.2	9.1518	228,795
-18	-0.4	8.6408	216,020
-17	1.4	8.1614	204,035
-16	3.2	7.7115	192,788
-15	5.0	7.2890	182,225
-14	6.8	6.8922	172,305
-13	8.6	6.5194	162,985
-12	10.4	6.1689	154,223
-11	12.2	5.8394	145,985
-10	14.0	5.5294	138,235
-9	15.8	5.2377	130,943
-8	17.6	4.9631	124,078
-7	19.4	4.7045	117,613
-6	21.2	4.4609	111,523
-5	23.0	4.2313	105,783
-4	24.8	4.0149	100,373
-3	26.6	3.8108	95,270
-2	28.4	3.6183	90,458
-1	30.2	3.4366	85,915
0	32.0	3.2651	81,628
1	33.8	3.1031	77,578
2	35.6	2.9501	73,752
3	37.4	2.8055	70,137
4	39.2	2.6688	66,720
5	41.0	2.5396	63,489
6	42.8	2.4173	60,433
7	44.6	2.3017	57,541
8	46.4	2.1922	54,805
9	48.2	2.0885	52,214
10	50.0	1.9904	49,760

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
11	51.8	1.8974	47,435
12	53.6	1.8093	45,232
13	55.4	1.7257	43,143
14	57.2	1.6465	41,163
15	59.0	1.5714	39,285
16	60.8	1.5001	37,503
17	62.6	1.4325	35,812
18	64.4	1.3683	34,207
19	66.2	1.3073	32,682
20	68.0	1.2494	31,234
21	69.8	1.1943	29,858
22	71.6	1.1420	28,550
23	73.4	1.0923	27,307
24	75.2	1.0450	26,125
25	77.0	1.0000	25,000
26	78.8	0.95720	23,930
27	80.6	0.91647	22,912
28	82.4	0.87769	21,942
29	84.2	0.84077	21,019
30	86.0	0.80560	20,140
31	87.8	0.77209	19,302
32	89.6	0.74016	18,504
33	91.4	0.70972	17,743
34	93.2	0.68069	17,017
35	95.0	0.65302	16,326
36	96.8	0.62661	15,665
37	98.6	0.60141	15,035
38	100.4	0.57737	14,434
39	102.2	0.55441	13,860
40	104.0	0.53249	13,312
41	105.8	0.51155	12,789
42	107.6	0.49155	12,289
43	109.4	0.47243	11,811
44	111.2	0.45416	11,354
45	113.0	0.43669	10,917
46	114.8	0.41999	10,500
47	116.6	0.40401	10,100
48	118.4	0.38873	9,718.3
49	120.2	0.37410	9,352.5
50	122.0	0.36010	9,002.5

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
51	123.8	0.34670	8,667.5
52	125.6	0.33386	8,346.5
53	127.4	0.32157	8,039.3
54	129.2	0.30979	7,744.8
55	131.0	0.29851	7,462.8
56	132.8	0.28770	7,192.5
57	134.6	0.27733	6,933.3
58	136.4	0.26739	6,684.8
59	138.2	0.25786	6,446.5
60	140.0	0.24871	6,217.8
61	141.8	0.23994	5,998.5
62	143.6	0.23152	5,788.0
63	145.4	0.22344	5,586.0
64	147.2	0.21568	5,392.0
65	149.0	0.20823	5,205.8
66	150.8	0.20108	5,027.0
67	152.6	0.19421	4,855.3
68	154.4	0.18761	4,690.3
69	156.2	0.18126	4,531.5
70	158.0	0.17516	4,379.0
71	159.8	0.16930	4,232.5
72	161.6	0.16366	4,091.5
73	163.4	0.15824	3,956.0
74	165.2	0.15303	3,825.8
75	167.0	0.14801	3,700.3
76	168.8	0.14320	3,580.0
77	170.6	0.13856	3,464.1
78	172.4	0.13410	3,352.6
79	174.2	0.12980	3,245.1
80	176.0	0.12566	3,141.6
81	177.8	0.12167	3,041.8
82	179.6	0.11783	2,945.7
83	181.4	0.11412	2,853.1
84	183.2	0.11055	2,763.8
85	185.0	0.10711	2,677.7
86	186.8	0.10379	2,594.7
87	188.6	0.10059	2,514.7
88	190.4	0.097500	2,437.5
89	192.2	0.094522	2,363.1
90	194.0	0.091648	2,291.2

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
91	195.8	0.088876	2,221.9
92	197.6	0.086200	2,155.0
93	199.4	0.083618	2,090.5
94	201.2	0.081125	2,028.1
95	203.0	0.078718	1,968.0
96	204.8	0.076394	1,909.9
97	206.6	0.074150	1,853.8
98	208.4	0.071982	1,799.6
99	210.2	0.069888	1,747.2
100	212.0	0.067865	1,696.6
101	213.8	0.065910	1,647.8
102	215.6	0.064021	1,600.5
103	217.4	0.062194	1,554.9
104	219.2	0.060429	1,510.7
105	221.0	0.058722	1,468.1
106	222.8	0.057071	1,426.8
107	224.6	0.055475	1,386.9
108	226.4	0.053931	1,348.3
109	228.2	0.052438	1,311.0
110	230.0	0.050992	1,274.8
111	231.8	0.049594	1,239.9
112	233.6	0.048241	1,206.0
113	235.4	0.046931	1,173.3
114	237.2	0.045662	1,141.6
115	239.0	0.044435	1,110.9
116	240.8	0.043246	1,081.2
117	242.6	0.042094	1,052.4
118	244.4	0.040979	1,024.5
119	246.2	0.039899	997.48
120	248.0	0.038852	971.30
121	249.8	0.037838	945.95
122	251.6	0.036855	921.38
123	253.4	0.035902	897.55
124	255.2	0.034978	874.45
125	257.0	0.034083	852.08
126	258.8	0.033215	830.38
127	260.6	0.032373	809.33
128	262.4	0.031556	788.90
129	264.2	0.030764	769.10
130	266.0	0.029996	749.90

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
131	267.8	0.029250	731.25
132	269.6	0.028527	713.18
133	271.4	0.027824	695.60
134	273.2	0.027143	678.58
135	275.0	0.026481	662.03
136	276.8	0.025839	645.98
137	278.6	0.025215	630.38
138	280.4	0.024610	615.25
139	282.2	0.024021	600.53
140	284.0	0.023450	586.25
141	285.8	0.022895	572.38
142	287.6	0.022355	558.88
143	289.4	0.021831	545.78
144	291.2	0.021322	533.05
145	293.0	0.020827	520.68
146	294.8	0.020345	508.63
147	296.6	0.019878	496.95
148	298.4	0.019423	485.58
149	300.2	0.018980	474.50
150	302.0	0.018550	463.75
151	303.8	0.018119	452.99
152	305.6	0.017701	442.53
153	307.4	0.017294	432.36
154	309.2	0.016899	422.48
155	311.0	0.016515	412.87
156	312.8	0.016141	403.53
157	314.6	0.015778	394.45
158	316.4	0.015425	385.62
159	318.2	0.015081	377.02
160	320.0	0.014747	368.66
161	321.8	0.014421	360.53
162	323.6	0.014105	352.61
163	325.4	0.013796	344.91
164	327.2	0.013496	337.41
165	329.0	0.013204	330.11
166	330.8	0.012920	323.00
167	332.6	0.012643	316.08
168	334.4	0.012373	309.34
169	336.2	0.012111	302.77
170	338.0	0.011855	296.37

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
171	339.8	0.011606	290.14
172	341.6	0.011363	284.06
173	343.4	0.011126	278.15
174	345.2	0.010895	272.38
175	347.0	0.010670	266.75
176	348.8	0.010451	261.27
177	350.6	0.010237	255.92
178	352.4	0.010028	250.71
179	354.2	0.009825	245.62
180	356.0	0.009627	240.66
181	357.8	0.009433	235.83
182	359.6	0.009244	231.11
183	361.4	0.009060	226.50
184	363.2	0.008880	222.01
185	365.0	0.008705	217.62
186	366.8	0.008534	213.34
187	368.6	0.008367	209.16
188	370.4	0.008203	205.08
189	372.2	0.008044	201.10
190	374.0	0.007889	197.21
191	375.8	0.007737	193.42
192	377.6	0.007588	189.71
193	379.4	0.007443	186.08
194	381.2	0.007302	182.55
195	383.0	0.007164	179.09
196	384.8	0.007028	175.71
197	386.6	0.006896	172.41
198	388.4	0.006767	169.18
199	390.2	0.006641	166.03
200	392.0	0.006518	162.95
201	393.8	0.006398	159.94
202	395.6	0.006280	157.00
203	397.4	0.006165	154.12
204	399.2	0.006052	151.30
205	401.0	0.005942	148.55
206	402.8	0.005834	145.86
207	404.6	0.005729	143.22
208	406.4	0.005626	140.65
209	408.2	0.005525	138.13
210	410.0	0.005427	135.67

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
211	411.8	0.005330	133.26
212	413.6	0.005236	130.90
213	415.4	0.005143	128.59
214	417.2	0.005053	126.33
215	419.0	0.004965	124.12
216	420.8	0.004878	121.95
217	422.6	0.004793	119.83
218	424.4	0.004710	117.76
219	426.2	0.004629	115.73
220	428.0	0.004550	113.74
221	429.8	0.004472	111.79
222	431.6	0.004396	109.89
223	433.4	0.004321	108.02
224	435.2	0.004248	106.19
225	437.0	0.004176	104.40
226	438.8	0.004106	102.65
227	440.6	0.004037	100.93
228	442.4	0.003970	99.245
229	444.2	0.003904	97.598
230	446.0	0.003839	95.983
231	447.8	0.003776	94.403
232	449.6	0.003714	92.855
233	451.4	0.003654	91.338
234	453.2	0.003594	89.850
235	455.0	0.003536	88.393
236	456.8	0.003479	86.968
237	458.6	0.003423	85.568
238	460.4	0.003368	84.198
239	462.2	0.003314	82.853
240	464.0	0.003262	81.538
241	465.8	0.003210	80.245
242	467.6	0.003159	78.980
243	469.4	0.003110	77.740
244	471.2	0.003061	76.523
245	473.0	0.003013	75.330
246	474.8	0.002966	74.160
247	476.6	0.002921	73.013
248	478.4	0.002876	71.888
249	480.2	0.002831	70.783
250	482.0	0.002788	69.700

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
251	483.8	0.002746	68.638
252	485.6	0.002704	67.595
253	487.4	0.002663	66.573
254	489.2	0.002623	65.570
255	491.0	0.002583	64.585
256	492.8	0.002545	63.620
257	494.6	0.002507	62.673
258	496.4	0.002470	61.743
259	498.2	0.002433	60.828
260	500.0	0.002397	59.933
261	501.8	0.002362	59.053
262	503.6	0.002328	58.188
263	505.4	0.002294	57.340
264	507.2	0.002260	56.508
265	509.0	0.002228	55.690
266	510.8	0.002196	54.888
267	512.6	0.002164	54.098
268	514.4	0.002133	53.325
269	516.2	0.002103	52.563
270	518.0	0.002073	51.818
271	519.8	0.002043	51.083
272	521.6	0.002015	50.363
273	523.4	0.001986	49.655
274	525.2	0.001958	48.958
275	527.0	0.001931	48.275
276	528.8	0.001904	47.603
277	530.6	0.001878	46.943
278	532.4	0.001852	46.295
279	534.2	0.001826	45.658
280	536.0	0.001801	45.033
281	537.8	0.001777	44.415
282	539.6	0.001752	43.810
283	541.4	0.001729	43.218
284	543.2	0.001705	42.633
285	545.0	0.001682	42.058
286	546.8	0.001660	41.493
287	548.6	0.001638	40.938
288	550.4	0.001616	40.390
289	552.2	0.001594	39.853
290	554.0	0.001573	39.325

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
291	555.8	0.001552	38.808
292	557.6	0.001532	38.295
293	559.4	0.001512	37.793
294	561.2	0.001492	37.300
295	563.0	0.001473	36.813
296	564.8	0.001453	36.335
297	566.6	0.001435	35.865
298	568.4	0.001416	35.403
299	570.2	0.001398	34.948
300	572.0	0.001380	34.500