



REV	DESCRIPTION	DATE	APP
0	INITIAL RELEASE	07/24/2020	DD
REVISION HISTORY			

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P/N EPLB17F103	SCALE: NONE	LAYER: 0 OF 2
	REV: 0	DATE: 07/24/2020

RESISTANCE @ +25°C = 10,000 Ω ± 1%  
 BETA "β" (+25°C TO +50°C) = 3,380°K NOMINAL  
 BETA "β" (+25°C TO +85°C) = 3,435°K NOMINAL  
 TEMPERATURE COEFFICIENT @ +25°C = -3.82%/°C NOMINAL  
 DISSIPATION CONSTANT = 1 mW/°C NOMINAL (AIR)  
 THERMAL TIME CONSTANT = 3 SECONDS NOMINAL (AIR)  
 TEMPERATURE RATING = -30 TO +100°C

ROHS COMPLIANT

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# El Sensor Technologies

## Resistance Versus Temperature Table

P/N EPLB17F103 Revision "0"

Resistance @ +25°C = 10,000 Ω

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
-30	-22.0	11.121	111,207
-29	-20.2	10.569	105,686
-28	-18.4	10.047	100,469
-27	-16.6	9.5538	95,538
-26	-14.8	9.0877	90,877
-25	-13.0	8.6469	86,469
-24	-11.2	8.2299	82,299
-23	-9.4	7.8353	78,353
-22	-7.6	7.4617	74,617
-21	-5.8	7.1080	71,080
-20	-4.0	6.7730	67,730
-19	-2.2	6.4556	64,556
-18	-0.4	6.1548	61,548
-17	1.4	5.8696	58,696
-16	3.2	5.5992	55,992
-15	5.0	5.3427	53,427
-14	6.8	5.0993	50,993
-13	8.6	4.8683	48,683
-12	10.4	4.6490	46,490
-11	12.2	4.4408	44,408
-10	14.0	4.2429	42,429
-9	15.8	4.0550	40,550
-8	17.6	3.8764	38,764
-7	19.4	3.7066	37,066

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
-6	21.2	3.5451	35,451
-5	23.0	3.3915	33,915
-4	24.8	3.2453	32,453
-3	26.6	3.1063	31,063
-2	28.4	2.9739	29,739
-1	30.2	2.8479	28,479
0	32.0	2.7278	27,278
1	33.8	2.6134	26,134
2	35.6	2.5045	25,045
3	37.4	2.4006	24,006
4	39.2	2.3016	23,016
5	41.0	2.2072	22,072
6	42.8	2.1171	21,171
7	44.6	2.0312	20,312
8	46.4	1.9492	19,492
9	48.2	1.8709	18,709
10	50.0	1.7962	17,962
11	51.8	1.7249	17,249
12	53.6	1.6567	16,567
13	55.4	1.5916	15,916
14	57.2	1.5294	15,294
15	59.0	1.4699	14,699
16	60.8	1.4130	14,130
17	62.6	1.3586	13,586
18	64.4	1.3066	13,066
19	66.2	1.2569	12,569
20	68.0	1.2093	12,093
21	69.8	1.1637	11,637
22	71.6	1.1201	11,201
23	73.4	1.0783	10,783
24	75.2	1.0383	10,383
25	77.0	1.0000	10,000
26	78.8	0.96333	9,633.3
27	80.6	0.92820	9,282.0
28	82.4	0.89452	8,945.2
29	84.2	0.86223	8,622.3
30	86.0	0.83128	8,312.8
31	87.8	0.80159	8,015.9

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
32	89.6	0.77311	7,731.1
33	91.4	0.74579	7,457.9
34	93.2	0.71957	7,195.7
35	95.0	0.69441	6,944.1
36	96.8	0.67025	6,702.5
37	98.6	0.64705	6,470.5
38	100.4	0.62477	6,247.7
39	102.2	0.60337	6,033.7
40	104.0	0.58281	5,828.1
41	105.8	0.56305	5,630.5
42	107.6	0.54406	5,440.6
43	109.4	0.52580	5,258.0
44	111.2	0.50825	5,082.5
45	113.0	0.49137	4,913.7
46	114.8	0.47513	4,751.3
47	116.6	0.45951	4,595.1
48	118.4	0.44449	4,444.9
49	120.2	0.43002	4,300.2
50	122.0	0.41610	4,161.0
51	123.8	0.40270	4,027.0
52	125.6	0.38979	3,897.9
53	127.4	0.37736	3,773.6
54	129.2	0.36539	3,653.9
55	131.0	0.35385	3,538.5
56	132.8	0.34274	3,427.4
57	134.6	0.33203	3,320.3
58	136.4	0.32170	3,217.0
59	138.2	0.31175	3,117.5
60	140.0	0.30215	3,021.5
61	141.8	0.29290	2,929.0
62	143.6	0.28397	2,839.7
63	145.4	0.27536	2,753.6
64	147.2	0.26705	2,670.5
65	149.0	0.25903	2,590.3
66	150.8	0.25129	2,512.9
67	152.6	0.24381	2,438.1
68	154.4	0.23660	2,366.0
69	156.2	0.22963	2,296.3

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
70	158.0	0.22290	2,229.0
71	159.8	0.21640	2,164.0
72	161.6	0.21012	2,101.2
73	163.4	0.20406	2,040.6
74	165.2	0.19819	1,981.9
75	167.0	0.19253	1,925.3
76	168.8	0.18705	1,870.5
77	170.6	0.18175	1,817.5
78	172.4	0.17663	1,766.3
79	174.2	0.17167	1,716.7
80	176.0	0.16688	1,668.8
81	177.8	0.16224	1,622.4
82	179.6	0.15776	1,577.6
83	181.4	0.15342	1,534.2
84	183.2	0.14922	1,492.2
85	185.0	0.14515	1,451.5
86	186.8	0.14121	1,412.1
87	188.6	0.13740	1,374.0
88	190.4	0.13371	1,337.1
89	192.2	0.13013	1,301.3
90	194.0	0.12667	1,266.7
91	195.8	0.12331	1,233.1
92	197.6	0.12006	1,200.6
93	199.4	0.11691	1,169.1
94	201.2	0.11386	1,138.6
95	203.0	0.11090	1,109.0
96	204.8	0.10803	1,080.3
97	206.6	0.10524	1,052.4
98	208.4	0.102550	1,025.5
99	210.2	0.099930	999.30
100	212.0	0.097390	973.90