



REV	DESCRIPTION	DATE	APP
0	INITIAL RELEASE	08/19/2020	DD

REVISION HISTORY

EI SENSOR TECHNOLOGIES www.ei-sensor.com © COPYRIGHT	NTC THERMISTOR	
	DRAWN BY: DAN DANKERT	
P/N EFT32F104	SCALE: NONE	LAYER: 0 OF 2
	REV: 0	DATE: 08/19/2020

This PROPRIETARY document is the property of EI Sensor Technologies. It is confidential in nature, non-transferrable and issued with the understanding that it is not to be traced or copied without permission, and is returnable on demand.

RESISTANCE @ +25°C = 100,000 Ω ± 1%
 RESISTANCE/TEMPERATURE CURVE = SEE EFT32F104 REV.0 R-T TABLE
 BETA "β" (+25 TO +50°C) = 3,950°K NOMINAL
 BETA "β" (+25 TO +85°C) = 4,007°K NOMINAL
 TEMPERATURE COEFFICIENT @ +25°C = -4.49%/°C NOMINAL
 DISSIPATION CONSTANT = 0.7 mW/°C NOMINAL (AIR)
 THERMAL TIME CONSTANT = 5 SECONDS NOMINAL (AIR)
 TEMPERATURE RATING = -30 TO +90°C

ROHS COMPLIANT

El Sensor Technologies

Resistance Versus Temperature Table

P/N EFT32F104 Revision "0"

Resistance @ +25°C = 100,000 Ω

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
-30	-22.0	17.880	1,787,980
-29	-20.2	16.796	1,679,602
-28	-18.4	15.785	1,578,506
-27	-16.6	14.842	1,484,158
-26	-14.8	13.961	1,396,066
-25	-13.0	13.138	1,313,775
-24	-11.2	12.369	1,236,869
-23	-9.4	11.650	1,164,960
-22	-7.6	10.977	1,097,694
-21	-5.8	10.347	1,034,743
-20	-4.0	9.7580	975,804
-19	-2.2	9.2060	920,596
-18	-0.4	8.6886	868,862
-17	1.4	8.2036	820,360
-16	3.2	7.7487	774,871
-15	5.0	7.3219	732,189
-14	6.8	6.9212	692,124
-13	8.6	6.5450	654,500
-12	10.4	6.1915	619,154
-11	12.2	5.8593	585,935
-10	14.0	5.5470	554,702
-9	15.8	5.2532	525,324
-8	17.6	4.9768	497,682
-7	19.4	4.7166	471,662
-6	21.2	4.4716	447,160
-5	23.0	4.2408	424,078
-4	24.8	4.0233	402,326

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
-3	26.6	3.8182	381,820
-2	28.4	3.6248	362,482
-1	30.2	3.4424	344,238
0	32.0	3.2702	327,019
1	33.8	3.1076	310,764
2	35.6	2.9541	295,412
3	37.4	2.8091	280,908
4	39.2	2.6720	267,201
5	41.0	2.5424	254,243
6	42.8	2.4199	241,988
7	44.6	2.3039	230,394
8	46.4	2.1942	219,422
9	48.2	2.0904	209,036
10	50.0	1.9920	199,201
11	51.8	1.8988	189,884
12	53.6	1.8106	181,056
13	55.4	1.7269	172,688
14	57.2	1.6475	164,754
15	59.0	1.5723	157,229
16	60.8	1.5009	150,090
17	62.6	1.4331	143,314
18	64.4	1.3688	136,883
19	66.2	1.3077	130,775
20	68.0	1.2497	124,973
21	69.8	1.1946	119,461
22	71.6	1.1422	114,222
23	73.4	1.0924	109,242
24	75.2	1.0451	104,505
25	77.0	1.0000	100,000
26	78.8	0.95713	95,713
27	80.6	0.91633	91,633
28	82.4	0.87749	87,749
29	84.2	0.84050	84,050
30	86.0	0.80527	80,527
31	87.8	0.77171	77,171
32	89.6	0.73972	73,972
33	91.4	0.70922	70,922
34	93.2	0.68014	68,014
35	95.0	0.65241	65,241
36	96.8	0.62595	62,595
37	98.6	0.60071	60,071

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
38	100.4	0.57661	57,661
39	102.2	0.55360	55,360
40	104.0	0.53164	53,164
41	105.8	0.51065	51,065
42	107.6	0.49060	49,060
43	109.4	0.47144	47,144
44	111.2	0.45313	45,313
45	113.0	0.43562	43,562
46	114.8	0.41888	41,888
47	116.6	0.40286	40,286
48	118.4	0.38754	38,754
49	120.2	0.37288	37,288
50	122.0	0.35884	35,884
51	123.8	0.34540	34,540
52	125.6	0.33254	33,254
53	127.4	0.32021	32,021
54	129.2	0.30841	30,841
55	131.0	0.29710	29,710
56	132.8	0.28625	28,625
57	134.6	0.27586	27,586
58	136.4	0.26589	26,589
59	138.2	0.25634	25,634
60	140.0	0.24717	24,717
61	141.8	0.23838	23,838
62	143.6	0.22994	22,994
63	145.4	0.22184	22,184
64	147.2	0.21406	21,406
65	149.0	0.20659	20,659
66	150.8	0.19942	19,942
67	152.6	0.19254	19,254
68	154.4	0.18592	18,592
69	156.2	0.17956	17,956
70	158.0	0.17345	17,345
71	159.8	0.16758	16,758
72	161.6	0.16193	16,193
73	163.4	0.15650	15,650
74	165.2	0.15128	15,128
75	167.0	0.14625	14,625
76	168.8	0.14142	14,142
77	170.6	0.13676	13,676
78	172.4	0.13229	13,229

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
79	174.2	0.12798	12,798
80	176.0	0.12383	12,383
81	177.8	0.11983	11,983
82	179.6	0.11598	11,598
83	181.4	0.11227	11,227
84	183.2	0.10870	10,870
85	185.0	0.10525	10,525
86	186.8	0.10194	10,194
87	188.6	0.098736	9,873.6
88	190.4	0.095652	9,565.2
89	192.2	0.092678	9,267.8
90	194.0	0.089810	8,981.0