



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 EFT32F503A	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 = 50,000 Ω ± 1%
 RESISTANCE/TEMPERATURE CURVE = SEE EFT32F503A REV.0 R-T TABLE
 BETA "β" (+25 TO +50°C) = 3,950°K ± 1%
 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 EFT32F503A Revision "0"

Resistance @ +25°C = 50,000 Ω

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
-30	-22.0	17.880	893,990
-29	-20.2	16.796	839,801
-28	-18.4	15.785	789,253
-27	-16.6	14.842	742,079
-26	-14.8	13.961	698,033
-25	-13.0	13.138	656,888
-24	-11.2	12.369	618,434
-23	-9.4	11.650	582,480
-22	-7.6	10.977	548,847
-21	-5.8	10.347	517,372
-20	-4.0	9.7580	487,902
-19	-2.2	9.2060	460,298
-18	-0.4	8.6886	434,431
-17	1.4	8.2036	410,180
-16	3.2	7.7487	387,436
-15	5.0	7.3219	366,095
-14	6.8	6.9212	346,062
-13	8.6	6.5450	327,250
-12	10.4	6.1915	309,577
-11	12.2	5.8593	292,967
-10	14.0	5.5470	277,351
-9	15.8	5.2532	262,662
-8	17.6	4.9768	248,841
-7	19.4	4.7166	235,831
-6	21.2	4.4716	223,580
-5	23.0	4.2408	212,039
-4	24.8	4.0233	201,163

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
-3	26.6	3.8182	190,910
-2	28.4	3.6248	181,241
-1	30.2	3.4424	172,119
0	32.0	3.2702	163,510
1	33.8	3.1076	155,382
2	35.6	2.9541	147,706
3	37.4	2.8091	140,454
4	39.2	2.6720	133,601
5	41.0	2.5424	127,121
6	42.8	2.4199	120,994
7	44.6	2.3039	115,197
8	46.4	2.1942	109,711
9	48.2	2.0904	104,518
10	50.0	1.9920	99,600
11	51.8	1.8988	94,942
12	53.6	1.8106	90,528
13	55.4	1.7269	86,344
14	57.2	1.6475	82,377
15	59.0	1.5723	78,615
16	60.8	1.5009	75,045
17	62.6	1.4331	71,657
18	64.4	1.3688	68,441
19	66.2	1.3077	65,387
20	68.0	1.2497	62,487
21	69.8	1.1946	59,731
22	71.6	1.1422	57,111
23	73.4	1.0924	54,621
24	75.2	1.0451	52,253
25	77.0	1.0000	50,000
26	78.8	0.95713	47,857
27	80.6	0.91633	45,817
28	82.4	0.87749	43,875
29	84.2	0.84050	42,025
30	86.0	0.80527	40,264
31	87.8	0.77171	38,585
32	89.6	0.73972	36,986
33	91.4	0.70922	35,461
34	93.2	0.68014	34,007
35	95.0	0.65241	32,621
36	96.8	0.62595	31,298
37	98.6	0.60071	30,035

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
38	100.4	0.57661	28,831
39	102.2	0.55360	27,680
40	104.0	0.53164	26,582
41	105.8	0.51065	25,533
42	107.6	0.49060	24,530
43	109.4	0.47144	23,572
44	111.2	0.45313	22,657
45	113.0	0.43562	21,781
46	114.8	0.41888	20,944
47	116.6	0.40286	20,143
48	118.4	0.38754	19,377
49	120.2	0.37288	18,644
50	122.0	0.35884	17,942
51	123.8	0.34540	17,270
52	125.6	0.33254	16,627
53	127.4	0.32021	16,011
54	129.2	0.30841	15,420
55	131.0	0.29710	14,855
56	132.8	0.28625	14,313
57	134.6	0.27586	13,793
58	136.4	0.26589	13,295
59	138.2	0.25634	12,817
60	140.0	0.24717	12,359
61	141.8	0.23838	11,919
62	143.6	0.22994	11,497
63	145.4	0.22184	11,092
64	147.2	0.21406	10,703
65	149.0	0.20659	10,330
66	150.8	0.19942	9,971.2
67	152.6	0.19254	9,626.9
68	154.4	0.18592	9,296.0
69	156.2	0.17956	8,978.1
70	158.0	0.17345	8,672.6
71	159.8	0.16758	8,378.9
72	161.6	0.16193	8,096.5
73	163.4	0.15650	7,825.0
74	165.2	0.15128	7,563.8
75	167.0	0.14625	7,312.6
76	168.8	0.14142	7,070.8
77	170.6	0.13676	6,838.2
78	172.4	0.13229	6,614.3

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
79	174.2	0.12798	6,398.8
80	176.0	0.12383	6,191.3
81	177.8	0.11983	5,991.4
82	179.6	0.11598	5,798.9
83	181.4	0.11227	5,613.5
84	183.2	0.10870	5,434.8
85	185.0	0.10525	5,262.7
86	186.8	0.10194	5,096.8
87	188.6	0.098736	4,936.8
88	190.4	0.095652	4,782.6
89	192.2	0.092678	4,633.9
90	194.0	0.089810	4,490.5