



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

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	DRAWN BY: DAN DANKERT	
P/N EFT32F103A	SCALE: NONE	LAYER: 0 OF 2
	REV: 0	DATE: 08/19/2020

RESISTANCE @ +25°C = 10,000 Ω ± 1%
 RESISTANCE/TEMPERATURE CURVE = SEE EFT32F103A 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

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Resistance Versus Temperature Table

P/N EFT32F103A 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	17.880	178,798
-29	-20.2	16.796	167,960
-28	-18.4	15.785	157,851
-27	-16.6	14.842	148,416
-26	-14.8	13.961	139,607
-25	-13.0	13.138	131,378
-24	-11.2	12.369	123,687
-23	-9.4	11.650	116,496
-22	-7.6	10.977	109,769
-21	-5.8	10.347	103,474
-20	-4.0	9.7580	97,580
-19	-2.2	9.2060	92,060
-18	-0.4	8.6886	86,886
-17	1.4	8.2036	82,036
-16	3.2	7.7487	77,487
-15	5.0	7.3219	73,219
-14	6.8	6.9212	69,212
-13	8.6	6.5450	65,450
-12	10.4	6.1915	61,915
-11	12.2	5.8593	58,593
-10	14.0	5.5470	55,470
-9	15.8	5.2532	52,532
-8	17.6	4.9768	49,768
-7	19.4	4.7166	47,166
-6	21.2	4.4716	44,716
-5	23.0	4.2408	42,408
-4	24.8	4.0233	40,233

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
-3	26.6	3.8182	38,182
-2	28.4	3.6248	36,248
-1	30.2	3.4424	34,424
0	32.0	3.2702	32,702
1	33.8	3.1076	31,076
2	35.6	2.9541	29,541
3	37.4	2.8091	28,091
4	39.2	2.6720	26,720
5	41.0	2.5424	25,424
6	42.8	2.4199	24,199
7	44.6	2.3039	23,039
8	46.4	2.1942	21,942
9	48.2	2.0904	20,904
10	50.0	1.9920	19,920
11	51.8	1.8988	18,988
12	53.6	1.8106	18,106
13	55.4	1.7269	17,269
14	57.2	1.6475	16,475
15	59.0	1.5723	15,723
16	60.8	1.5009	15,009
17	62.6	1.4331	14,331
18	64.4	1.3688	13,688
19	66.2	1.3077	13,077
20	68.0	1.2497	12,497
21	69.8	1.1946	11,946
22	71.6	1.1422	11,422
23	73.4	1.0924	10,924
24	75.2	1.0451	10,451
25	77.0	1.0000	10,000
26	78.8	0.95713	9,571.3
27	80.6	0.91633	9,163.3
28	82.4	0.87749	8,774.9
29	84.2	0.84050	8,405.0
30	86.0	0.80527	8,052.7
31	87.8	0.77171	7,717.1
32	89.6	0.73972	7,397.2
33	91.4	0.70922	7,092.2
34	93.2	0.68014	6,801.4
35	95.0	0.65241	6,524.1
36	96.8	0.62595	6,259.5
37	98.6	0.60071	6,007.1

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
38	100.4	0.57661	5,766.1
39	102.2	0.55360	5,536.0
40	104.0	0.53164	5,316.4
41	105.8	0.51065	5,106.5
42	107.6	0.49060	4,906.0
43	109.4	0.47144	4,714.4
44	111.2	0.45313	4,531.3
45	113.0	0.43562	4,356.2
46	114.8	0.41888	4,188.8
47	116.6	0.40286	4,028.6
48	118.4	0.38754	3,875.4
49	120.2	0.37288	3,728.8
50	122.0	0.35884	3,588.4
51	123.8	0.34540	3,454.0
52	125.6	0.33254	3,325.4
53	127.4	0.32021	3,202.1
54	129.2	0.30841	3,084.1
55	131.0	0.29710	2,971.0
56	132.8	0.28625	2,862.5
57	134.6	0.27586	2,758.6
58	136.4	0.26589	2,658.9
59	138.2	0.25634	2,563.4
60	140.0	0.24717	2,471.7
61	141.8	0.23838	2,383.8
62	143.6	0.22994	2,299.4
63	145.4	0.22184	2,218.4
64	147.2	0.21406	2,140.6
65	149.0	0.20659	2,065.9
66	150.8	0.19942	1,994.2
67	152.6	0.19254	1,925.4
68	154.4	0.18592	1,859.2
69	156.2	0.17956	1,795.6
70	158.0	0.17345	1,734.5
71	159.8	0.16758	1,675.8
72	161.6	0.16193	1,619.3
73	163.4	0.15650	1,565.0
74	165.2	0.15128	1,512.8
75	167.0	0.14625	1,462.5
76	168.8	0.14142	1,414.2
77	170.6	0.13676	1,367.6
78	172.4	0.13229	1,322.9

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
79	174.2	0.12798	1,279.8
80	176.0	0.12383	1,238.3
81	177.8	0.11983	1,198.3
82	179.6	0.11598	1,159.8
83	181.4	0.11227	1,122.7
84	183.2	0.10870	1,087.0
85	185.0	0.10525	1,052.5
86	186.8	0.10194	1,019.4
87	188.6	0.098736	987.36
88	190.4	0.095652	956.52
89	192.2	0.092678	926.78
90	194.0	0.089810	898.10