

Date: MAR. 26, 2004

E3-51F PRT25938
RESISTANCE-TEMPERATURE CHARACTERISTICS

TEMP. °C	MINIMUM kΩ	NOMINAL kΩ	MAXIMUM kΩ	Temp. Accy °C
-20.0	447.3	486.0	527.6	± 1.457
-19.0	422.4	458.3	496.9	± 1.444
-18.0	399.0	432.4	468.3	± 1.431
-17.0	377.0	408.1	441.4	± 1.418
-16.0	356.4	385.3	416.3	± 1.405
-15.0	337.1	364.0	392.8	± 1.392
-14.0	318.9	343.9	370.7	± 1.379
-13.0	301.8	325.1	350.0	± 1.365
-12.0	285.8	307.5	330.6	± 1.352
-11.0	270.6	290.9	312.4	± 1.339
-10.0	256.4	275.3	295.3	± 1.325
-9.0	243.0	260.6	279.2	± 1.311
-8.0	230.4	246.8	264.2	± 1.298
-7.0	218.6	233.8	250.0	± 1.284
-6.0	207.4	221.6	236.7	± 1.270
-5.0	196.8	210.1	224.1	± 1.256
-4.0	186.9	199.2	212.3	± 1.242
-3.0	177.5	189.0	201.2	± 1.228
-2.0	168.6	179.4	190.7	± 1.214
-1.0	160.2	170.3	180.9	± 1.200
0.0	152.3	161.7	171.6	± 1.180
1.0	144.8	153.6	162.8	± 1.166
2.0	137.8	145.9	154.5	± 1.152
3.0	131.1	138.7	146.7	± 1.137
4.0	124.7	131.9	139.3	± 1.123
5.0	118.7	125.4	132.4	± 1.109
6.0	113.1	119.3	125.8	± 1.094
7.0	107.7	113.5	119.6	± 1.080
8.0	102.7	108.1	113.7	± 1.065
9.0	97.85	102.9	108.2	± 1.050
10.0	93.29	98.04	103.0	± 1.035
11.0	88.98	93.41	98.00	± 1.020
12.0	84.89	89.03	93.32	± 1.005
13.0	81.02	84.89	88.88	± 0.990
14.0	77.34	80.95	84.69	± 0.975
15.0	73.85	77.23	80.71	± 0.960
16.0	70.54	73.70	76.95	± 0.945
17.0	67.40	70.35	73.38	± 0.929
18.0	64.41	67.17	70.00	± 0.914
19.0	61.58	64.15	66.79	± 0.898
20.0	58.88	61.29	63.75	± 0.883

$$R(37^{\circ}\text{C}) = 29.37 \text{ k}\Omega \pm 2.5 \%$$

$$B(0/100) = 3970 \text{ K} \pm 2 \%$$

Title:
THERMISTOR TYPE E3-51F

Drafter
H. Maeda

Appr. by
J. Watanabe

Dwg. No.
C

1/4

SHIBAURA ELECTRONICS CO., LTD.

Ver. /

Date: MAR. 26, 2004

E3-51F

PRT25938

RESISTANCE-TEMPERATURE CHARACTERISTICS

TEMP. °C	MINIMUM kΩ	NOMINAL kΩ	MAXIMUM kΩ	Temp. Accy °C
20.0	58.88	61.29	63.75	± 0.883
21.0	56.32	58.57	60.86	± 0.867
22.0	53.89	55.98	58.13	± 0.851
23.0	51.57	53.53	55.53	± 0.835
24.0	49.37	51.20	53.06	± 0.819
25.0	47.27	48.98	50.71	± 0.803
26.0	45.27	46.87	48.49	± 0.787
27.0	43.37	44.86	46.37	± 0.771
28.0	41.56	42.95	44.36	± 0.755
29.0	39.84	41.13	42.44	± 0.738
30.0	38.20	39.40	40.62	± 0.722
31.0	36.63	37.75	38.89	± 0.705
32.0	35.14	36.18	37.24	± 0.689
33.0	33.71	34.69	35.67	± 0.672
34.0	32.35	33.26	34.17	± 0.655
35.0	31.06	31.90	32.75	± 0.638
36.0	29.82	30.61	31.39	± 0.621
37.0	28.64	29.37	30.10	± 0.604
38.0	27.47	28.19	28.91	± 0.629
39.0	26.35	27.06	27.78	± 0.653
40.0	25.28	25.99	26.70	± 0.677
41.0	24.26	24.96	25.67	± 0.702
42.0	23.29	23.98	24.68	± 0.727
43.0	22.36	23.05	23.73	± 0.751
44.0	21.48	22.15	22.83	± 0.776
45.0	20.63	21.30	21.97	± 0.802
46.0	19.83	20.48	21.14	± 0.827
47.0	19.05	19.70	20.35	± 0.852
48.0	18.32	18.95	19.59	± 0.878
49.0	17.61	18.23	18.86	± 0.903
50.0	16.94	17.55	18.17	± 0.929
51.0	16.29	16.89	17.50	± 0.955
52.0	15.67	16.26	16.87	± 0.981
53.0	15.08	15.66	16.26	± 1.007
54.0	14.52	15.09	15.67	± 1.033
55.0	13.98	14.54	15.11	± 1.060
56.0	13.46	14.01	14.57	± 1.087
57.0	12.96	13.50	14.05	± 1.113
58.0	12.49	13.02	13.56	± 1.140
59.0	12.03	12.55	13.08	± 1.167
60.0	11.60	12.10	12.63	± 1.194

$$R(37^{\circ}\text{C}) = 29.37 \text{ k}\Omega \pm 2.5 \%$$

$$B(0/100) = 3970 \text{ K} \pm 2 \%$$

Title:
THERMISTOR TYPE E3-51FDrafter
*H. Maeda*Appr. by
*J. Watanuki*Dwg. No.
C

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SHIBAURA ELECTRONICS CO., LTD.

Date: MAR. 26, 2004

E3-51F

PRT25938

RESISTANCE-TEMPERATURE CHARACTERISTICS

TEMP. °C	MINIMUM kΩ	NOMINAL kΩ	MAXIMUM kΩ	Temp. Accy °C
60.0	11.60	12.10	12.63	± 1.194
61.0	11.18	11.68	12.19	± 1.221
62.0	10.78	11.27	11.77	± 1.249
63.0	10.39	10.87	11.36	± 1.276
64.0	10.02	10.49	10.98	± 1.304
65.0	9.671	10.13	10.60	± 1.332
66.0	9.331	9.781	10.25	± 1.360
67.0	9.005	9.445	9.901	± 1.388
68.0	8.692	9.123	9.570	± 1.416
69.0	8.392	8.814	9.252	± 1.444
70.0	8.103	8.517	8.946	± 1.473
71.0	7.826	8.231	8.652	± 1.501
72.0	7.560	7.956	8.368	± 1.530
73.0	7.304	7.692	8.096	± 1.559
74.0	7.058	7.438	7.833	± 1.588
75.0	6.821	7.193	7.581	± 1.617
76.0	6.594	6.958	7.338	± 1.646
77.0	6.375	6.732	7.104	± 1.676
78.0	6.165	6.514	6.878	± 1.705
79.0	5.962	6.304	6.661	± 1.735
80.0	5.768	6.102	6.452	± 1.764
81.0	5.580	5.908	6.250	± 1.794
82.0	5.400	5.720	6.056	± 1.824
83.0	5.226	5.540	5.868	± 1.855
84.0	5.059	5.366	5.688	± 1.885
85.0	4.898	5.198	5.513	± 1.915
86.0	4.743	5.037	5.345	± 1.946
87.0	4.593	4.881	5.183	± 1.977
88.0	4.449	4.731	5.027	± 2.008
89.0	4.310	4.586	4.876	± 2.038
90.0	4.177	4.446	4.730	± 2.070
91.0	4.048	4.311	4.589	± 2.101
92.0	3.923	4.181	4.454	± 2.132
93.0	3.803	4.056	4.323	± 2.164
94.0	3.687	3.935	4.196	± 2.195
95.0	3.576	3.818	4.074	± 2.227
96.0	3.468	3.705	3.955	± 2.259
97.0	3.364	3.596	3.841	± 2.291
98.0	3.263	3.490	3.731	± 2.323
99.0	3.167	3.389	3.624	± 2.356
100.0	3.073	3.290	3.521	± 2.388

$$R(37^{\circ}\text{C}) = 29.37 \text{ k}\Omega \pm 2.5 \%$$

$$B(0/100) = 3970 \text{ K} \pm 2 \%$$

Title:
THERMISTOR TYPE E3-51FDrafter
*H. Maeda*Appr. by
*T. Watanabe*Dwg. No.
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SHIBAURA ELECTRONICS CO., LTD.

Date: MAR. 26, 2004

E3-51F

PRT25938

RESISTANCE-TEMPERATURE CHARACTERISTICS

TEMP. °C	MINIMUM kΩ	NOMINAL kΩ	MAXIMUM kΩ	Temp. Accy °C
100.0	3.073	3.290	3.521	± 2.388
101.0	2.983	3.195	3.421	± 2.421
102.0	2.895	3.104	3.325	± 2.453
103.0	2.811	3.015	3.232	± 2.486
104.0	2.729	2.929	3.142	± 2.519
105.0	2.651	2.846	3.054	± 2.552

$$R(37^{\circ}\text{C}) = 29.37 \text{ k}\Omega \pm 2.5 \%$$

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