

Date: MAR. 26, 2004

E3-42D PRT25939  
RESISTANCE-TEMPERATURE CHARACTERISTICS

TEMP. °C	MINIMUM kΩ	NOMINAL kΩ	MAXIMUM kΩ	Temp. Accy °C
-20.0	57.63	60.88	64.27	± 1.110
-19.0	54.85	57.91	61.10	± 1.106
-18.0	52.22	55.10	58.11	± 1.101
-17.0	49.73	52.45	55.28	± 1.097
-16.0	47.38	49.94	52.61	± 1.093
-15.0	45.15	47.56	50.08	± 1.089
-14.0	43.03	45.31	47.69	± 1.085
-13.0	41.03	43.19	45.42	± 1.080
-12.0	39.14	41.17	43.28	± 1.076
-11.0	37.34	39.26	41.25	± 1.072
-10.0	35.64	37.45	39.33	± 1.067
-9.0	34.02	35.73	37.51	± 1.063
-8.0	32.49	34.11	35.78	± 1.058
-7.0	31.03	32.56	34.15	± 1.054
-6.0	29.65	31.10	32.59	± 1.049
-5.0	28.34	29.71	31.12	± 1.045
-4.0	27.09	28.39	29.72	± 1.040
-3.0	25.91	27.13	28.40	± 1.036
-2.0	24.78	25.94	27.14	± 1.031
-1.0	23.71	24.81	25.94	± 1.026
0.0	22.69	23.73	24.80	± 1.022
1.0	21.72	22.71	23.72	± 1.017
2.0	20.80	21.73	22.69	± 1.012
3.0	19.92	20.81	21.72	± 1.008
4.0	19.09	19.92	20.79	± 1.003
5.0	18.29	19.09	19.90	± 0.998
6.0	17.53	18.29	19.06	± 0.993
7.0	16.81	17.52	18.26	± 0.988
8.0	16.12	16.80	17.50	± 0.983
9.0	15.46	16.11	16.77	± 0.978
10.0	14.84	15.45	16.08	± 0.973
11.0	14.24	14.82	15.41	± 0.968
12.0	13.67	14.22	14.79	± 0.963
13.0	13.13	13.65	14.18	± 0.958
14.0	12.61	13.10	13.61	± 0.953
15.0	12.11	12.58	13.07	± 0.948
16.0	11.64	12.09	12.54	± 0.943
17.0	11.18	11.61	12.05	± 0.938
18.0	10.75	11.16	11.57	± 0.933
19.0	10.34	10.72	11.12	± 0.927
20.0	9.943	10.31	10.68	± 0.922

$R(50^{\circ}\text{C}) = 3.485 \text{ k}\Omega \pm 2.5 \%$

$B(0/100) = 3450 \text{ K} \pm 1 \%$

Title: THERMISTOR TYPE E3-42D	Drafter <i>H. Maeda</i>	Appr. by <i>T. Watanabe</i>	Dwg. No. B	1/4
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SHIBAURA ELECTRONICS CO., LTD.

Ver. /

Date: MAR. 26, 2004

E3-42D

PRT25939

RESISTANCE-TEMPERATURE CHARACTERISTICS

TEMP. °C	MINIMUM kΩ	NOMINAL kΩ	MAXIMUM kΩ	Temp. Accy °C
20.0	9.943	10.31	10.68	± 0.922
21.0	9.565	9.913	10.27	± 0.917
22.0	9.203	9.535	9.872	± 0.911
23.0	8.857	9.173	9.493	± 0.906
24.0	8.526	8.826	9.131	± 0.901
25.0	8.209	8.495	8.785	± 0.895
26.0	7.905	8.177	8.453	± 0.890
27.0	7.614	7.873	8.136	± 0.884
28.0	7.336	7.583	7.833	± 0.879
29.0	7.069	7.304	7.542	± 0.873
30.0	6.813	7.037	7.264	± 0.868
31.0	6.568	6.782	6.997	± 0.862
32.0	6.333	6.537	6.742	± 0.857
33.0	6.108	6.302	6.497	± 0.851
34.0	5.892	6.076	6.263	± 0.845
35.0	5.685	5.860	6.038	± 0.840
36.0	5.486	5.653	5.822	± 0.834
37.0	5.295	5.454	5.616	± 0.828
38.0	5.111	5.264	5.417	± 0.822
39.0	4.935	5.081	5.227	± 0.817
40.0	4.766	4.905	5.045	± 0.811
41.0	4.604	4.736	4.869	± 0.805
42.0	4.448	4.574	4.701	± 0.799
43.0	4.298	4.418	4.539	± 0.793
44.0	4.154	4.269	4.384	± 0.787
45.0	4.015	4.125	4.235	± 0.781
46.0	3.882	3.987	4.092	± 0.775
47.0	3.754	3.854	3.954	± 0.769
48.0	3.631	3.726	3.822	± 0.763
49.0	3.512	3.603	3.694	± 0.757
50.0	3.398	3.485	3.572	± 0.750
51.0	3.286	3.371	3.457	± 0.765
52.0	3.178	3.262	3.345	± 0.779
53.0	3.075	3.157	3.238	± 0.793
54.0	2.975	3.055	3.135	± 0.808
55.0	2.879	2.957	3.036	± 0.822
56.0	2.787	2.863	2.941	± 0.837
57.0	2.698	2.773	2.849	± 0.851
58.0	2.612	2.686	2.760	± 0.866
59.0	2.529	2.602	2.674	± 0.881
60.0	2.450	2.521	2.592	± 0.895

$R(50^{\circ}\text{C}) = 3.485 \text{ k}\Omega \pm 2.5 \%$

$B(0/100) = 3450 \text{ K} \pm 1 \%$

Title: THERMISTOR TYPE E3-42D	Drafter <i>H.ameda</i>	Appr. by <i>R.Watanuki</i>	Dwg. No. B	<i>2/4</i>
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SHIBAURA ELECTRONICS CO., LTD.

Date: MAR. 26, 2014

E3-42D

PRT25939

## RESISTANCE-TEMPERATURE CHARACTERISTICS

TEMP. °C	MINIMUM kΩ	NOMINAL kΩ	MAXIMUM kΩ	Temp. Accy °C
60.0	2.450	2.521	2.592	± 0.895
61.0	2.373	2.442	2.512	± 0.910
62.0	2.299	2.367	2.436	± 0.925
63.0	2.228	2.295	2.362	± 0.940
64.0	2.159	2.225	2.290	± 0.955
65.0	2.093	2.157	2.221	± 0.970
66.0	2.029	2.092	2.155	± 0.985
67.0	1.968	2.029	2.091	± 1.000
68.0	1.908	1.968	2.029	± 1.016
69.0	1.851	1.910	1.969	± 1.031
70.0	1.796	1.853	1.911	± 1.046
71.0	1.742	1.799	1.856	± 1.062
72.0	1.691	1.746	1.802	± 1.077
73.0	1.641	1.695	1.750	± 1.093
74.0	1.593	1.646	1.699	± 1.109
75.0	1.547	1.598	1.651	± 1.124
76.0	1.502	1.552	1.604	± 1.140
77.0	1.458	1.508	1.559	± 1.156
78.0	1.417	1.465	1.515	± 1.172
79.0	1.376	1.424	1.472	± 1.188
80.0	1.337	1.384	1.431	± 1.204
81.0	1.299	1.345	1.391	± 1.220
82.0	1.263	1.307	1.353	± 1.236
83.0	1.227	1.271	1.316	± 1.252
84.0	1.193	1.236	1.280	± 1.268
85.0	1.160	1.202	1.245	± 1.285
86.0	1.128	1.169	1.211	± 1.301
87.0	1.097	1.137	1.179	± 1.318
88.0	1.067	1.107	1.147	± 1.334
89.0	1.038	1.077	1.116	± 1.351
90.0	1.010	1.048	1.087	± 1.367
91.0	0.9825	1.020	1.058	± 1.384
92.0	0.9561	0.9927	1.030	± 1.401
93.0	0.9306	0.9665	1.003	± 1.418
94.0	0.9059	0.9411	0.9770	± 1.435
95.0	0.8820	0.9164	0.9516	± 1.452
96.0	0.8588	0.8925	0.9271	± 1.469
97.0	0.8363	0.8694	0.9033	± 1.486
98.0	0.8145	0.8469	0.8802	± 1.503
99.0	0.7934	0.8252	0.8578	± 1.520
100.0	0.7729	0.8041	0.8360	± 1.538

$$R(50^{\circ}\text{C}) = 3.485 \text{ k}\Omega \pm 2.5 \%$$

$$B(0/100) = 3450 \text{ K} \pm 1 \%$$

Title:  
THERMISTOR TYPE E3-42DDrafter  
H. MaedaAppr. by  
T. WatanabeDwg. No.  
B

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SHIBAURA ELECTRONICS CO., LTD.

Date: MAR. 26, 2004

E3-42D

PRT25939

## RESISTANCE-TEMPERATURE CHARACTERISTICS

TEMP. °C	MINIMUM kΩ	NOMINAL kΩ	MAXIMUM kΩ	Temp. Accy °C
100.0	0.7729	0.8041	0.8360	± 1.538
101.0	0.7530	0.7836	0.8150	± 1.555
102.0	0.7338	0.7638	0.7945	± 1.572
103.0	0.7151	0.7445	0.7747	± 1.590
104.0	0.6970	0.7258	0.7554	± 1.607
105.0	0.6794	0.7077	0.7367	± 1.625
106.0	0.6624	0.6901	0.7186	± 1.643
107.0	0.6458	0.6730	0.7010	± 1.660
108.0	0.6298	0.6565	0.6839	± 1.678
109.0	0.6142	0.6404	0.6673	± 1.696
110.0	0.5990	0.6247	0.6511	± 1.714
111.0	0.5844	0.6096	0.6355	± 1.732
112.0	0.5701	0.5948	0.6203	± 1.750
113.0	0.5563	0.5805	0.6055	± 1.768
114.0	0.5428	0.5666	0.5911	± 1.787
115.0	0.5297	0.5531	0.5771	± 1.805
116.0	0.5171	0.5400	0.5636	± 1.823
117.0	0.5047	0.5272	0.5504	± 1.842
118.0	0.4927	0.5148	0.5376	± 1.860
119.0	0.4811	0.5028	0.5251	± 1.879
120.0	0.4698	0.4911	0.5130	± 1.898

$$R(50^{\circ}\text{C}) = 3.485 \text{ k}\Omega \pm 2.5 \%$$

$$B(0/100) = 3450 \text{ K} \pm 1 \%$$

Title:  
THERMISTOR TYPE E3-42DDrafter  
*H. Maeda*Appr. by  
*T. Watanuki*Dwg. No.  
B

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SHIBAURA ELECTRONICS CO., LTD.