Date: Oct. 12, 2007

SPECIFICATION

THERMISTOR, TYPE PT-51F-L1

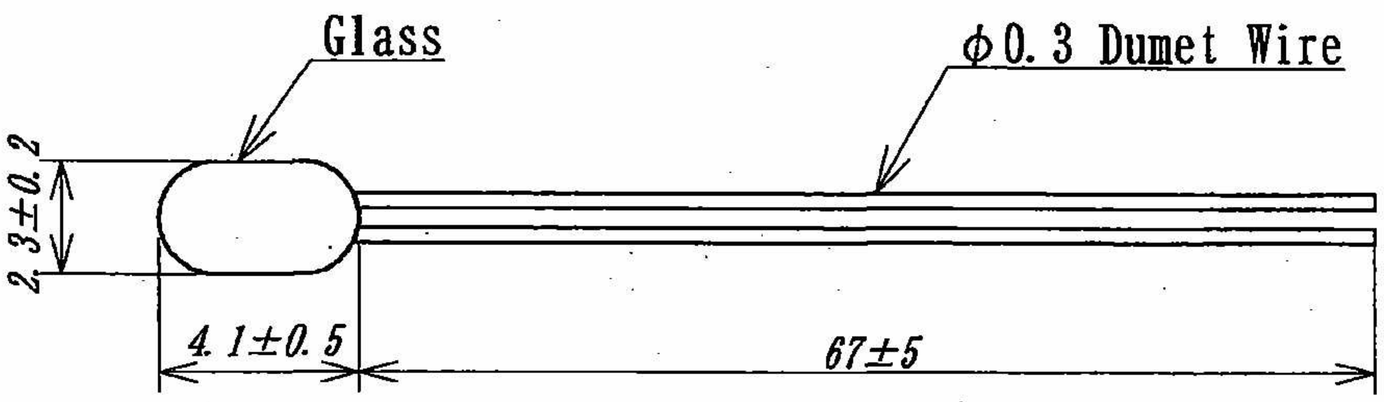
1. Scope

This specification sheet defines the shape, dimensions, characteristics, inspection standards and other standards of PT-51F-L1 used for air-conditioner outdoor unit.

2. Specifications

2. 1 Element : Thermistor, type PSB-S1

2. 2 Shape and dimensions



Unit:mm

2. 3 Characteristics

(1) Electrical characteristics

(a) Resistance value : R = 3.3 kΩ ± 2.5 % (at 100℃)

(b) B value : B = 3970 K ± 2 %
(calculated from resistance value at 0℃ and 100℃)

(c) Insulation resistance 50MΩ or over by DC500V megger
(between glass and lead wire)

(2) Thermal time constant (τ) : τ = 10 ~ 17 s (in still air)

(3) Thermal dissipation constant (δ) : δ = 1.1 ~ 1.6 mW/℃ (in still air)

(4) Operating temperature range : -50 ~ +300 ℃

Title: THERMISTOR TYPE PT-51F-L1	Drafter	Inspector	Approver	Dwg. No. 1/2 TE22248 ver. 1
	A. Minatogawa	T. Takahashi T. Watanuki	H. Ohno	

SHIBAURA ELECTRONICS CO., LTD.

3. Outgoing Inspection

(1) The product shall be inspected at every delivery lot. The inspection items, sampling quantities and admission criteria are as follows.

Inspection Item	Admission criteria	Remarks
Resistance value	n=20, Ac=0, Re=1	2. 3 (1) (a)
B-value	n=10, Ac=0, Re=1	2. 3 (1) (b)
Insulation Resistance	n=5, Ac=0, Re=1	2. 3 (1) (c)
Shape & dimensions	n=5, Ac=0, Re=1	2. 2
Appearance	n=5, Ac=0, Re=1	2. 2

(2) Inspection data

Inspection data will be issued for pay upon request.

4. Packing

Packing shall be done to avoid any damage or soil during the delivery.

Title: THERMISTOR TYPE PT-51F-L1	Drafter	Inspector	Approver	Dwg. No. 2/2 TE22248 ver. 1
	A. Minatogawa	T. Takahashi T. Watanuki	M. Shono	

Date: Oct. 22, 2007

PT -51F PRT24911-1

RESISTANCE-TEMPERATURE CHARACTERISTICS

TEMP. °C	MINIMUM kΩ	NOMINAL kΩ	MAXIMUM kΩ	Temp.Accy ℃
-50.0	2951	3491	4128	± 2.489
-49.0	2748	3246	3832	± 2.483
-48.0	2560	3019	3558	± 2.477
-47.0	2386	2809	3306	± 2.470
-46.0	2225	2616	3074	± 2.464
-45.0	2076	2437	2860	± 2.457
-44.0	1938	2272	2662	± 2.450
-43.0	1810	2119	2479	± 2.444
-42.0	1692	1977	2309	± 2.437
-41.0	1582	1846	2153	± 2.430
-40.0	1480	1724	2008	± 2.423
-39.0	1385	1612	1874	± 2.416
-38.0	1297	1507	1750	± 2.409
-37.0	1215	1410	1635	± 2.402
-36.0	1139	1320	1528	± 2.395
-35.0	1068	1236	1429	± 2.388
-34.0	1002	1158	1337	± 2.380
-33.0	940.6	1085	1251	± 2.373
-32.0	883.3	1018	1172	± 2.366
-31.0	829.8	954.8	1098	± 2.358
-30.0	779.9	896.2	1029	± 2.351
-29.0	733.4	841.6	965.1	± 2.343
-28.0	689.9	790.7	905.5	± 2.336
-27.0	649.3	743.1	850.0	± 2.328
-26.0	611.4	698.8	798.2	± 2.320
-25.0	575.9	657.4	749.9	± 2.312
-24.0	542.7	618.7	704.9	± 2.304
-23.0	511.6	582.5	662.8	± 2.296
-22.0	482.5	548.6	623.5	± 2.288
-21.0	455.2	517.0	586.8	± 2.280
-20.0	429.7	487.4	552.5	± 2.272
-19.0	405.7	459.6	520.4	± 2.264
-18.0	383.2	433.6	490.4	± 2.256
-17.0	362.2	409.3	462.3	± 2.247
-16.0	342.4	386.5	436.0	± 2.239
-15.0	323.8	365.0	411.3	± 2.231
-14.0	306.3	344.9	388.2	± 2.222
-13.0	289.9	326.1	366.5	± 2.213
-12.0	274.5	308.4	346.2	± 2.205
-11.0	260.0	291.7	327.1	± 2.196
-10.0	246.3	276.1	309.2	± 2.187

R(100°C)= 3.300 kΩ ± 2.5 %

B(0/100)= 3970 K ± 2.0 %

Title:	Drafter	Appr. by	Dwg. No.	
THERMISTOR TYPE PT -51F	T. Watanabe	T. Watanabe	C	1/4

SHIBAURA ELECTRONICS CO., LTD.

Ver.1

Date: Oct, 22, 2007

PT -51F PRT24911-1

RESISTANCE-TEMPERATURE CHARACTERISTICS

TEMP. °C	MINIMUM kΩ	NOMINAL kΩ	MAXIMUM kΩ	Temp.Accy ℃
-10.0	246.3	276.1	309.2	± 2.187
-9.0	233.4	261.4	292.4	± 2.179
-8.0	221.3	247.5	276.6	± 2.170
-7.0	209.9	234.5	261.8	± 2.161
-6.0	199.2	222.2	247.8	± 2.152
-5.0	189.0	210.7	234.7	± 2.143
-4.0	179.5	199.8	222.3	± 2.134
-3.0	170.5	189.6	210.7	± 2.124
-2.0	161.9	179.9	199.8	± 2.115
-1.0	153.9	170.8	189.4	± 2.106
0.0	146.3	162.2	179.7	± 2.086
1.0	139.1	154.1	170.5	± 2.077
2.0	132.3	146.4	161.8	± 2.068
3.0	125.9	139.1	153.6	± 2.059
4.0	119.8	132.3	145.9	± 2.049
5.0	114.1	125.8	138.6	± 2.040
6.0	108.6	119.7	131.7	± 2.030
7.0	103.5	113.9	125.2	± 2.021
8.0	98.60	108.4	119.1	± 2.011
9.0	93.98	103.2	113.3	± 2.002
10.0	89.61	98.32	107.8	± 1.992
11.0	85.47	93.68	102.6	± 1.982
12.0	81.54	89.29	97.72	± 1.973
13.0	77.82	85.13	93.08	± 1.963
14.0	74.29	81.19	88.68	± 1.953
15.0	70.93	77.45	84.52	± 1.943
16.0	67.75	73.91	80.58	± 1.933
17.0	64.74	70.55	76.84	± 1.922
18.0	61.87	67.36	73.30	± 1.912
19.0	59.14	64.34	69.94	± 1.902
20.0	56.56	61.47	66.76	± 1.891
21.0	54.10	58.74	63.74	± 1.881
22.0	51.76	56.15	60.87	± 1.871
23.0	49.53	53.68	58.15	± 1.860
24.0	47.42	51.34	55.56	± 1.849
25.0	45.40	49.12	53.11	± 1.839
26.0	43.49	47.00	50.78	± 1.828
27.0	41.66	44.99	48.56	± 1.817
28.0	39.92	43.08	46.45	± 1.806
29.0	38.27	41.25	44.45	± 1.795
30.0	36.69	39.52	42.54	± 1.784

R(100°C)= 3.300 kΩ ± 2.5 %

B(0/100)= 3970 K ± 2.0 %

Title:	Drafter	Appr. by	Dwg. No.	
THERMISTOR TYPE PT -51F	Y. Watanabe	T. Watanuki	C	2/9

SHIBAURA ELECTRONICS CO., LTD.

Ver.1

Date: Oct. 22, 2007

PT -51F PRT24911-1

RESISTANCE-TEMPERATURE CHARACTERISTICS

TEMP. °C	MINIMUM kΩ	NOMINAL kΩ	MAXIMUM kΩ	Temp.Accy ℃
30.0	36.69	39.52	42.54	± 1.784
31.0	35.18	37.86	40.72	± 1.773
32.0	33.75	36.29	39.00	± 1.762
33.0	32.38	34.79	37.35	± 1.751
34.0	31.08	33.36	35.79	± 1.739
35.0	29.83	32.00	34.30	± 1.728
36.0	28.64	30.70	32.88	± 1.717
37.0	27.51	29.46	31.52	± 1.705
38.0	26.43	28.27	30.23	± 1.694
39.0	25.39	27.14	29.00	± 1.682
40.0	24.40	26.06	27.82	± 1.670
41.0	23.46	25.04	26.70	± 1.658
42.0	22.55	24.05	25.63	± 1.647
43.0	21.69	23.11	24.61	± 1.635
44.0	20.86	22.22	23.64	± 1.623
45.0	20.07	21.36	22.71	± 1.611
46.0	19.32	20.54	21.82	± 1.599
47.0	18.60	19.75	20.97	± 1.586
48.0	17.90	19.00	20.16	± 1.574
49.0	17.24	18.29	19.38	± 1.562
50.0	16.61	17.60	18.64	± 1.550
51.0	16.00	16.94	17.93	± 1.537
52.0	15.41	16.31	17.25	± 1.525
53.0	14.86	15.71	16.60	± 1.512
54.0	14.32	15.13	15.98	± 1.499
55.0	13.81	14.58	15.38	± 1.487
56.0	13.32	14.05	14.81	± 1.474
57.0	12.84	13.54	14.27	± 1.461
58.0	12.39	13.05	13.75	± 1.448
59.0	11.96	12.59	13.24	± 1.435
60.0	11.54	12.14	12.76	± 1.422
61.0	11.14	11.71	12.30	± 1.409
62.0	10.76	11.30	11.86	± 1.396
63.0	10.39	10.90	11.44	± 1.383
64.0	10.03	10.52	11.03	± 1.369
65.0	9.691	10.16	10.64	± 1.356
66.0	9.363	9.809	10.27	± 1.343
67.0	9.049	9.473	9.911	± 1.329
68.0	8.746	9.150	9.566	± 1.316
69.0	8.455	8.840	9.236	± 1.302
70.0	8.176	8.541	8.918	± 1.288

R(100°C)= 3.300 kΩ ± 2.5 %

B(0/100)= 3970 K ± 2.0 %

Title:	Drafter	Appr. by	Dwg. No.	
THERMISTOR TYPE PT -51F	Y. Watanabe	T. Nakanuki	C	3/9

SHIBAURA ELECTRONICS CO., LTD.

Ver.1

Date: Oct. 22, 2007

PT -51F

PRT24911-1

RESISTANCE-TEMPERATURE CHARACTERISTICS

TEMP. °C	MINIMUM kΩ	NOMINAL kΩ	MAXIMUM kΩ	Temp. Accy ℃
70.0	8.176	8.541	8.918	± 1.288
71.0	7.907	8.255	8.613	± 1.275
72.0	7.648	7.979	8.320	± 1.261
73.0	7.399	7.714	8.038	± 1.247
74.0	7.159	7.459	7.768	± 1.233
75.0	6.928	7.214	7.507	± 1.219
76.0	6.706	6.978	7.257	± 1.205
77.0	6.492	6.751	7.016	± 1.191
78.0	6.286	6.533	6.785	± 1.176
79.0	6.088	6.322	6.562	± 1.162
80.0	5.896	6.120	6.348	± 1.148
81.0	5.712	5.925	6.142	± 1.133
82.0	5.534	5.737	5.943	± 1.119
83.0	5.363	5.556	5.752	± 1.104
84.0	5.198	5.381	5.568	± 1.090
85.0	5.039	5.213	5.391	± 1.075
86.0	4.885	5.051	5.220	± 1.060
87.0	4.737	4.895	5.055	± 1.045
88.0	4.594	4.744	4.897	± 1.030
89.0	4.456	4.599	4.744	± 1.015
90.0	4.323	4.459	4.597	± 1.000
91.0	4.194	4.324	4.455	± 0.985
92.0	4.070	4.193	4.318	± 0.970
93.0	3.950	4.068	4.186	± 0.955
94.0	3.835	3.946	4.058	± 0.939
95.0	3.723	3.829	3.935	± 0.924
96.0	3.615	3.716	3.817	± 0.909
97.0	3.511	3.606	3.702	± 0.893
98.0	3.410	3.501	3.592	± 0.878
99.0	3.312	3.399	3.485	± 0.862
100.0	3.218	3.300	3.382	± 0.846
101.0	3.123	3.205	3.286	± 0.870
102.0	3.032	3.113	3.194	± 0.895
103.0	2.944	3.024	3.104	± 0.919
104.0	2.858	2.938	3.017	± 0.943
105.0	2.776	2.854	2.934	± 0.968
106.0	2.696	2.774	2.853	± 0.993
107.0	2.619	2.696	2.774	± 1.017
108.0	2.544	2.621	2.698	± 1.042
109.0	2.472	2.548	2.625	± 1.067
110.0	2.403	2.478	2.553	± 1.092

R(100°C)= 3.300 kΩ ± 2.5 %

B(0/100)= 3970 K ± 2.0 %

Title:	Drafter	Appr. by	Dwg. No.	
THERMISTOR TYPE PT -51F	T. Watanabe	T. Watanabe	C	4/9

SHIBAURA ELECTRONICS CO., LTD.

Ver.7

様式 SDS基 202−15−1 A4

H16.4. 2000(第一BF)

Date: Oct. 22, 2007

PT -51F PRT24911-1

RESISTANCE-TEMPERATURE CHARACTERISTICS

TEMP. °C	MINIMUM kΩ	NOMINAL kΩ	MAXIMUM kΩ	Temp.Accy ℃
110.0	2.403	2.478	2.553	± 1.092
111.0	2.335	2.410	2.485	± 1.118
112.0	2.270	2.344	2.418	± 1.143
113.0	2.207	2.280	2.353	± 1.168
114.0	2.146	2.218	2.290	± 1.194
115.0	2.087	2.158	2.230	± 1.220
116.0	2.030	2.100	2.171	± 1.245
117.0	1.975	2.044	2.114	± 1.271
118.0	1.921	1.989	2.059	± 1.297
119.0	1.869	1.937	2.005	± 1.323
120.0	1.819	1.886	1.953	± 1.350
121.0	1.770	1.836	1.903	± 1.376
122.0	1.723	1.788	1.854	± 1.402
123.0	1.677	1.741	1.807	± 1.429
124.0	1.633	1.696	1.761	± 1.456
125.0	1.590	1.653	1.716	± 1.483
126.0	1.549	1.610	1.673	± 1.509
127.0	1.508	1.569	1.631	± 1.536
128.0	1.469	1.529	1.591	± 1.564
129.0	1.431	1.490	1.551	± 1.591
130.0	1.395	1.453	1.513	± 1.618
131.0	1.359	1.416	1.476	± 1.646
132.0	1.324	1.381	1.439	± 1.673
133.0	1.291	1.347	1.404	± 1.701
134.0	1.258	1.313	1.370	± 1.729
135.0	1.227	1.281	1.337	± 1.756
136.0	1.196	1.250	1.305	± 1.784
137.0	1.166	1.219	1.274	± 1.813
138.0	1.137	1.189	1.243	± 1.841
139.0	1.109	1.161	1.214	± 1.869
140.0	1.082	1.133	1.185	± 1.898
141.0	1.056	1.106	1.157	± 1.926
142.0	1.030	1.079	1.130	± 1.955
143.0	1.005	1.053	1.104	± 1.984
144.0	0.9807	1.029	1.078	± 2.012
145.0	0.9572	1.004	1.053	± 2.042
146.0	0.9343	0.9807	1.029	± 2.071
147.0	0.9120	0.9578	1.005	± 2.100
148.0	0.8904	0.9355	0.9823	± 2.129
149.0	0.8694	0.9139	0.9600	± 2.159
150.0	0.8490	0.8928	0.9383	± 2.188

R(100°C)= 3.300 kΩ ± 2.5 %

B(0/100)= 3970 K ± 2.0 %

Title:	Drafter	Appr. by	Dwg. No.	
THERMISTOR TYPE PT -51F	T. Watanabe	T. Watanuki	C	5/9

SHIBAURA ELECTRONICS CO., LTD. Ver.1

Date: Oct. 22, 2007

PT -51F PRT24911-1

RESISTANCE-TEMPERATURE CHARACTERISTICS

TEMP. °C	MINIMUM kΩ	NOMINAL kΩ	MAXIMUM kΩ	Temp.Accy ℃
150.0	0.8490	0.8928	0.9383	± 2.188
151.0	0.8291	0.8723	0.9171	± 2.218
152.0	0.8098	0.8523	0.8966	± 2.248
153.0	0.7910	0.8329	0.8765	± 2.278
154.0	0.7728	0.8141	0.8570	± 2.308
155.0	0.7550	0.7957	0.8381	± 2.338
156.0	0.7377	0.7778	0.8196	± 2.368
157.0	0.7209	0.7604	0.8016	± 2.398
158.0	0.7045	0.7435	0.7841	± 2.429
159.0	0.6886	0.7270	0.7670	± 2.459
160.0	0.6731	0.7109	0.7504	± 2.490
161.0	0.6580	0.6953	0.7342	± 2.521
162.0	0.6433	0.6801	0.7184	± 2.552
163.0	0.6291	0.6652	0.7030	± 2.583
164.0	0.6151	0.6508	0.6880	± 2.614
165.0	0.6016	0.6367	0.6734	± 2.645
166.0	0.5884	0.6230	0.6592	± 2.677
167.0	0.5755	0.6096	0.6453	± 2.708
168.0	0.5630	0.5966	0.6318	± 2.740
169.0	0.5508	0.5839	0.6186	± 2.772
170.0	0.5389	0.5716	0.6058	± 2.803
171.0	0.5273	0.5595	0.5932	± 2.835
172.0	0.5161	0.5477	0.5810	± 2.867
173.0	0.5051	0.5363	0.5691	± 2.900
174.0	0.4944	0.5251	0.5575	± 2.932
175.0	0.4839	0.5142	0.5461	± 2.964
176.0	0.4737	0.5036	0.5350	± 2.997
177.0	0.4638	0.4932	0.5242	± 3.029
178.0	0.4541	0.4831	0.5137	± 3.062
179.0	0.4447	0.4733	0.5034	± 3.095
180.0	0.4355	0.4637	0.4934	± 3.128
181.0	0.4265	0.4543	0.4836	± 3.161
182.0	0.4177	0.4451	0.4740	± 3.194
183.0	0.4092	0.4362	0.4647	± 3.227
184.0	0.4009	0.4275	0.4556	± 3.261
185.0	0.3927	0.4190	0.4467	± 3.294
186.0	0.3848	0.4107	0.4380	± 3.328
187.0	0.3771	0.4025	0.4295	± 3.362
188.0	0.3695	0.3946	0.4212	± 3.396
189.0	0.3621	0.3869	0.4131	± 3.430
190.0	0.3549	0.3793	0.4052	± 3.464

R(100°C)= 3.300 kΩ ± 2.5 %

B(0/100)= 3970 K ± 2.0 %

Title: THERMISTOR TYPE PT -51F	Drafter Y. Watanabe	Appr. by T. Watanuki	Dwg. No. C	6/9

SHIBAURA ELECTRONICS CO., LTD.

Ver.1

様式 SDS基 202−15−1 A4 H16.4. 2000(第一BF)

Date: Oct. 22, 2007

PT -51F PRT24911-1

RESISTANCE-TEMPERATURE CHARACTERISTICS

TEMP. °C	MINIMUM kΩ	NOMINAL kΩ	MAXIMUM kΩ	Temp.Accy ℃
190.0	0.3549	0.3793	0.4052	± 3.464
191.0	0.3479	0.3720	0.3975	± 3.498
192.0	0.3411	0.3648	0.3899	± 3.532
193.0	0.3344	0.3577	0.3825	± 3.567
194.0	0.3278	0.3509	0.3753	± 3.601
195.0	0.3214	0.3442	0.3683	± 3.636
196.0	0.3152	0.3376	0.3614	± 3.671
197.0	0.3091	0.3312	0.3547	± 3.706
198.0	0.3032	0.3249	0.3481	± 3.741
199.0	0.2973	0.3188	0.3417	± 3.776
200.0	0.2917	0.3128	0.3354	± 3.811
201.0	0.2861	0.3070	0.3292	± 3.847
202.0	0.2807	0.3013	0.3232	± 3.882
203.0	0.2754	0.2957	0.3173	± 3.918
204.0	0.2702	0.2903	0.3116	± 3.953
205.0	0.2652	0.2849	0.3060	± 3.989
206.0	0.2602	0.2797	0.3005	± 4.025
207.0	0.2554	0.2746	0.2951	± 4.061
208.0	0.2506	0.2696	0.2898	± 4.097
209.0	0.2460	0.2647	0.2847	± 4.134
210.0	0.2415	0.2600	0.2796	± 4.170
211.0	0.2371	0.2553	0.2747	± 4.207
212.0	0.2328	0.2507	0.2699	± 4.243
213.0	0.2285	0.2463	0.2652	± 4.280
214.0	0.2244	0.2419	0.2606	± 4.317
215.0	0.2204	0.2376	0.2560	± 4.354
216.0	0.2164	0.2334	0.2516	± 4.391
217.0	0.2126	0.2293	0.2473	± 4.428
218.0	0.2088	0.2253	0.2430	± 4.466
219.0	0.2051	0.2214	0.2389	± 4.503
220.0	0.2014	0.2176	0.2348	± 4.541
221.0	0.1979	0.2138	0.2308	± 4.578
222.0	0.1944	0.2101	0.2269	± 4.616
223.0	0.1910	0.2065	0.2231	± 4.654
224.0	0.1877	0.2030	0.2194	± 4.692
225.0	0.1844	0.1995	0.2157	± 4.730
226.0	0.1813	0.1961	0.2121	± 4.769
227.0	0.1781	0.1928	0.2086	± 4.807
228.0	0.1751	0.1896	0.2051	± 4.846
229.0	0.1721	0.1864	0.2018	± 4.884
230.0	0.1692	0.1833	0.1985	± 4.923

R(100°C)= 3.300 kΩ ± 2.5 %

B(0/100)= 3970 K ± 2.0 %

Title: THERMISTOR TYPE PT -51F	Drafter T. Watanabe	Appr. by T. Watanuki	Dwg. No. C	7/9

SHIBAURA ELECTRONICS CO., LTD.

Ver.1

Date: Oct. 22, 2007

PT -51F PRT24911-1

RESISTANCE-TEMPERATURE CHARACTERISTICS

TEMP. °C	MINIMUM kΩ	NOMINAL kΩ	MAXIMUM kΩ	Temp.Accy ℃
230.0	0.1692	0.1833	0.1985	± 4.923
231.0	0.1663	0.1802	0.1952	± 4.962
232.0	0.1635	0.1773	0.1920	± 5.001
233.0	0.1607	0.1743	0.1889	± 5.040
234.0	0.1581	0.1715	0.1859	± 5.079
235.0	0.1554	0.1686	0.1829	± 5.118
236.0	0.1528	0.1659	0.1800	± 5.158
237.0	0.1503	0.1632	0.1771	± 5.197
238.0	0.1478	0.1605	0.1743	± 5.237
239.0	0.1454	0.1580	0.1715	± 5.277
240.0	0.1430	0.1554	0.1688	± 5.317
241.0	0.1407	0.1529	0.1661	± 5.357
242.0	0.1384	0.1505	0.1635	± 5.397
243.0	0.1361	0.1481	0.1610	± 5.438
244.0	0.1339	0.1457	0.1585	± 5.478
245.0	0.1318	0.1434	0.1560	± 5.518
246.0	0.1297	0.1412	0.1536	± 5.559
247.0	0.1276	0.1390	0.1512	± 5.600
248.0	0.1256	0.1368	0.1489	± 5.641
249.0	0.1236	0.1347	0.1466	± 5.682
250.0	0.1216	0.1326	0.1444	± 5.723
251.0	0.1197	0.1305	0.1422	± 5.764
252.0	0.1178	0.1285	0.1401	± 5.806
253.0	0.1160	0.1265	0.1380	± 5.847
254.0	0.1142	0.1246	0.1359	± 5.889
255.0	0.1124	0.1227	0.1339	± 5.930
256.0	0.1107	0.1208	0.1319	± 5.972
257.0	0.1090	0.1190	0.1299	± 6.014
258.0	0.1073	0.1172	0.1280	± 6.056
259.0	0.1057	0.1155	0.1261	± 6.099
260.0	0.1040	0.1137	0.1242	± 6.141
261.0	0.1025	0.1120	0.1224	± 6.183
262.0	0.1009	0.1104	0.1206	± 6.226
263.0	0.0994	0.1087	0.1189	± 6.269
264.0	0.0979	0.1071	0.1172	± 6.312
265.0	0.0964	0.1056	0.1155	± 6.355
266.0	0.0950	0.1040	0.1138	± 6.398
267.0	0.0936	0.1025	0.1122	± 6.441
268.0	0.0922	0.1010	0.1106	± 6.484
269.0	0.0908	0.0995	0.1090	± 6.528
270.0	0.0895	0.0981	0.1075	± 6.571

R(100°C)= 3.300 kΩ ± 2.5 %

B(0/100)= 3970 K ± 2.0 %

Title:	Drafter	Appr. by	Dwg. No.	
THERMISTOR TYPE PT -51F	Y. Watanabe	T. Watanuki	C	8/9

SHIBAURA ELECTRONICS CO., LTD.

Ver.1

Date: Oct.22,2007

PT -51F PRT24911-1

RESISTANCE-TEMPERATURE CHARACTERISTICS

TEMP. °C	MINIMUM kΩ	NOMINAL kΩ	MAXIMUM kΩ	Temp.Accy ℃
270.0	0.0895	0.0981	0.1075	± 6.571
271.0	0.0882	0.0967	0.1059	± 6.615
272.0	0.0869	0.0953	0.1044	± 6.659
273.0	0.0856	0.0939	0.1030	± 6.703
274.0	0.0844	0.0926	0.1015	± 6.747
275.0	0.0832	0.0913	0.1001	± 6.791
276.0	0.0820	0.0900	0.0987	± 6.835
277.0	0.0808	0.0887	0.0974	± 6.880
278.0	0.0796	0.0875	0.0960	± 6.924
279.0	0.0785	0.0863	0.0947	± 6.969
280.0	0.0774	0.0851	0.0934	± 7.014
281.0	0.0763	0.0839	0.0921	± 7.059
282.0	0.0752	0.0827	0.0909	± 7.104
283.0	0.0742	0.0816	0.0897	± 7.149
284.0	0.0731	0.0804	0.0884	± 7.194
285.0	0.0721	0.0793	0.0873	± 7.240
286.0	0.0711	0.0783	0.0861	± 7.285
287.0	0.0701	0.0772	0.0849	± 7.331
288.0	0.0691	0.0761	0.0838	± 7.377
289.0	0.0682	0.0751	0.0827	± 7.422
290.0	0.0673	0.0741	0.0816	± 7.468
291.0	0.0663	0.0731	0.0805	± 7.515
292.0	0.0654	0.0721	0.0795	± 7.561
293.0	0.0645	0.0712	0.0784	± 7.607
294.0	0.0637	0.0702	0.0774	± 7.654
295.0	0.0628	0.0693	0.0764	± 7.701
296.0	0.0620	0.0684	0.0754	± 7.747
297.0	0.0611	0.0675	0.0744	± 7.794
298.0	0.0603	0.0666	0.0735	± 7.841
299.0	0.0595	0.0657	0.0725	± 7.888
300.0	0.0587	0.0649	0.0716	± 7.936

R(100°C)= 3.300 kΩ ± 2.5 %

B(0/100)= 3970 K ± 2.0 %

Title: THERMISTOR TYPE PT -51F	Drafter Y. Watanabe	Appr. by T. Watanuki	Dwg. No. C	9/9

SHIBAURA ELECTRONICS CO., LTD.

Ver.1