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DATA FOR REFERENCE

Resistance 20.00k ohms at 25 Degree C
 Resistance Tolerance $\pm 0.5\%$
 B Value 3976K at 25/85 Degree C
 B Value Tolerance $\pm 0.5\%$

Temp. (°C)	Rmax. (kΩ)	Rst. (kΩ)	Rmin. (kΩ)	Tolerance (°C)
-60	2571	2497	2424	-0.39 + 0.39
-59	2383	2315	2249	-0.39 + 0.39
-58	2211	2149	2088	-0.39 + 0.39
-57	2053	1995	1940	-0.38 + 0.39
-56	1907	1854	1803	-0.38 + 0.38
-55	1773	1724	1677	-0.38 + 0.38
-54	1649	1605	1561	-0.38 + 0.38
-53	1535	1494	1454	-0.38 + 0.38
-52	1430	1392	1356	-0.38 + 0.38
-51	1332	1298	1264	-0.38 + 0.38
-50	1243	1211	1180	-0.37 + 0.37
-49	1160	1130	1102	-0.37 + 0.37
-48	1083	1056	1029	-0.37 + 0.37
-47	1012	986.8	962.9	-0.37 + 0.37
-46	945.5	922.9	900.8	-0.37 + 0.37
-45	884.4	863.6	843.2	-0.36 + 0.37
-44	827.8	808.5	789.7	-0.36 + 0.36
-43	775.3	757.5	740.0	-0.36 + 0.36
-42	726.4	710.0	693.9	-0.36 + 0.36
-41	681.1	665.9	651.0	-0.36 + 0.36
-40	638.9	624.9	611.1	-0.36 + 0.35
-39	598.8	585.8	573.1	-0.35 + 0.35
-38	561.6	549.5	537.8	-0.34 + 0.34
-37	526.9	515.8	504.9	-0.34 + 0.34
-36	494.6	484.4	474.3	-0.34 + 0.34
-35	464.6	455.1	445.7	-0.34 + 0.34
-34	436.6	427.8	419.1	-0.33 + 0.34
-33	410.5	402.4	394.3	-0.33 + 0.33

-32	386.2	378.6	371.2	-0.33 + 0.33
-31	363.5	356.5	349.6	-0.33 + 0.33
-30	342.3	335.8	329.4	-0.33 + 0.32
-29	322.1	316.1	310.1	-0.32 + 0.32
-28	303.2	297.6	292.1	-0.31 + 0.31
-27	285.6	280.4	275.3	-0.31 + 0.31
-26	269.1	264.3	259.6	-0.31 + 0.31
-25	253.7	249.3	244.9	-0.31 + 0.31
-24	239.3	235.2	231.1	-0.30 + 0.30
-23	225.9	222.0	218.2	-0.30 + 0.30
-22	213.2	209.7	206.1	-0.30 + 0.30
-21	201.4	198.1	194.8	-0.30 + 0.30
-20	190.3	187.2	184.2	-0.29 + 0.29
-19	179.8	176.9	174.0	-0.29 + 0.29
-18	169.9	167.2	164.5	-0.28 + 0.28
-17	160.6	158.1	155.6	-0.28 + 0.28
-16	151.8	149.5	147.2	-0.28 + 0.28
-15	143.7	141.5	139.4	-0.27 + 0.27
-14	136.0	134.0	132.0	-0.27 + 0.27
-13	128.8	126.9	125.0	-0.27 + 0.27
-12	122.0	120.2	118.5	-0.26 + 0.27
-11	115.6	114.0	112.4	-0.26 + 0.26
-10	109.6	108.1	106.6	-0.26 + 0.26
-9	103.9	102.4	101.1	-0.25 + 0.25
-8	98.41	97.14	95.89	-0.25 + 0.25
-7	93.33	92.15	90.99	-0.25 + 0.25
-6	88.55	87.45	86.37	-0.24 + 0.24
-5	84.04	83.02	82.02	-0.24 + 0.24
-4	79.79	78.85	77.91	-0.24 + 0.24
-3	75.79	74.91	74.04	-0.23 + 0.23
-2	72.02	71.20	70.39	-0.23 + 0.23
-1	68.46	67.70	66.95	-0.23 + 0.23
0	65.10	64.39	63.69	-0.22 + 0.22
1	61.88	61.23	60.58	-0.22 + 0.22
2	58.85	58.24	57.64	-0.21 + 0.21
3	55.98	55.42	54.86	-0.21 + 0.21
4	53.28	52.75	52.23	-0.21 + 0.21
5	50.72	50.23	49.75	-0.20 + 0.20
6	48.30	47.85	47.40	-0.20 + 0.20
7	46.02	45.59	45.17	-0.19 + 0.20
8	43.85	43.46	43.07	-0.19 + 0.19
9	41.81	41.44	41.08	-0.19 + 0.19
10	39.87	39.53	39.19	-0.18 + 0.18
11	38.01	37.69	37.38	-0.18 + 0.18
12	36.25	35.96	35.67	-0.17 + 0.17

13	34.58	34.31	34.04	-0.17 + 0.17
14	33.00	32.75	32.50	-0.17 + 0.17
15	31.50	31.27	31.04	-0.16 + 0.16
16	30.08	29.87	29.66	-0.16 + 0.16
17	28.74	28.54	28.34	-0.15 + 0.15
18	27.46	27.28	27.09	-0.15 + 0.15
19	26.25	26.08	25.91	-0.15 + 0.15
20	25.10	24.94	24.78	-0.14 + 0.14
21	23.99	23.85	23.70	-0.14 + 0.14
22	22.95	22.81	22.68	-0.13 + 0.13
23	21.95	21.83	21.70	-0.13 + 0.13
24	21.00	20.89	20.78	-0.12 + 0.12
25	20.10	20.00	19.90	-0.12 + 0.12
26	19.25	19.15	19.04	-0.13 + 0.13
27	18.44	18.34	18.24	-0.13 + 0.13
28	17.67	17.57	17.47	-0.14 + 0.14
29	16.94	16.84	16.73	-0.14 + 0.14
30	16.24	16.14	16.04	-0.15 + 0.15
31	15.57	15.47	15.37	-0.15 + 0.15
32	14.93	14.83	14.73	-0.16 + 0.16
33	14.32	14.22	14.12	-0.17 + 0.17
34	13.74	13.64	13.55	-0.17 + 0.17
35	13.19	13.09	12.99	-0.18 + 0.18
36	12.66	12.57	12.47	-0.18 + 0.18
37	12.16	12.06	11.97	-0.19 + 0.19
38	11.68	11.59	11.49	-0.20 + 0.20
39	11.22	11.13	11.03	-0.20 + 0.20
40	10.78	10.69	10.60	-0.21 + 0.21
41	10.36	10.27	10.18	-0.21 + 0.21
42	9.954	9.869	9.785	-0.22 + 0.22
43	9.569	9.486	9.403	-0.23 + 0.23
44	9.201	9.119	9.038	-0.23 + 0.23
45	8.850	8.769	8.689	-0.24 + 0.24
46	8.514	8.435	8.356	-0.24 + 0.25
47	8.193	8.115	8.037	-0.25 + 0.25
48	7.885	7.809	7.733	-0.26 + 0.26
49	7.592	7.516	7.442	-0.26 + 0.27
50	7.310	7.237	7.163	-0.27 + 0.27
51	7.039	6.966	6.895	-0.28 + 0.28
52	6.779	6.708	6.638	-0.28 + 0.28
53	6.530	6.461	6.392	-0.29 + 0.29
54	6.292	6.224	6.156	-0.30 + 0.30
55	6.064	5.997	5.931	-0.30 + 0.30
56	5.845	5.780	5.715	-0.31 + 0.31
57	5.636	5.572	5.508	-0.32 + 0.32

58	5.435	5.372	5.310	-0.32 + 0.32
59	5.243	5.181	5.120	-0.33 + 0.33
60	5.058	4.998	4.938	-0.34 + 0.34
61	4.880	4.821	4.762	-0.34 + 0.34
62	4.709	4.651	4.593	-0.35 + 0.35
63	4.544	4.488	4.431	-0.35 + 0.36
64	4.387	4.331	4.276	-0.36 + 0.36
65	4.235	4.181	4.127	-0.37 + 0.37
66	4.090	4.037	3.984	-0.38 + 0.38
67	3.951	3.899	3.847	-0.38 + 0.38
68	3.817	3.766	3.715	-0.39 + 0.39
69	3.688	3.638	3.589	-0.40 + 0.40
70	3.565	3.516	3.467	-0.41 + 0.40
71	3.445	3.397	3.350	-0.41 + 0.41
72	3.330	3.283	3.237	-0.42 + 0.42
73	3.219	3.174	3.128	-0.42 + 0.43
74	3.113	3.068	3.024	-0.43 + 0.43
75	3.011	2.967	2.924	-0.44 + 0.44
76	2.913	2.870	2.827	-0.45 + 0.45
77	2.818	2.776	2.735	-0.45 + 0.46
78	2.727	2.686	2.645	-0.46 + 0.46
79	2.640	2.599	2.560	-0.47 + 0.47
80	2.555	2.516	2.477	-0.48 + 0.48
81	2.474	2.435	2.397	-0.48 + 0.48
82	2.396	2.358	2.321	-0.49 + 0.49
83	2.320	2.283	2.247	-0.50 + 0.50
84	2.247	2.211	2.175	-0.51 + 0.51
85	2.177	2.142	2.107	-0.51 + 0.51
86	2.109	2.075	2.041	-0.52 + 0.52
87	2.044	2.010	1.977	-0.53 + 0.53
88	1.981	1.948	1.915	-0.53 + 0.54
89	1.920	1.888	1.856	-0.54 + 0.54
90	1.862	1.830	1.799	-0.55 + 0.55
91	1.805	1.774	1.743	-0.56 + 0.56
92	1.751	1.720	1.690	-0.56 + 0.57
93	1.698	1.668	1.639	-0.57 + 0.58
94	1.647	1.618	1.589	-0.58 + 0.58
95	1.598	1.570	1.542	-0.59 + 0.59
96	1.551	1.523	1.495	-0.60 + 0.60
97	1.505	1.478	1.451	-0.61 + 0.61
98	1.461	1.434	1.408	-0.61 + 0.62
99	1.419	1.392	1.367	-0.62 + 0.63
100	1.378	1.352	1.327	-0.63 + 0.63
101	1.338	1.312	1.288	-0.63 + 0.64
102	1.299	1.274	1.250	-0.64 + 0.65

103	1.262	1.238	1.214	-0.65 + 0.65
104	1.226	1.202	1.179	-0.66 + 0.66
105	1.191	1.168	1.145	-0.67 + 0.67
106	1.157	1.134	1.112	-0.68 + 0.68
107	1.125	1.102	1.081	-0.68 + 0.69
108	1.093	1.071	1.050	-0.69 + 0.70
109	1.063	1.041	1.021	-0.70 + 0.71
110	1.033	1.012	0.9924	-0.71 + 0.71
111	1.005	0.9841	0.9645	-0.71 + 0.72
112	0.9763	0.9568	0.9376	-0.72 + 0.73
113	0.9495	0.9303	0.9115	-0.73 + 0.73
114	0.9235	0.9047	0.8863	-0.74 + 0.74
115	0.8983	0.8799	0.8619	-0.75 + 0.75
116	0.8740	0.8560	0.8383	-0.76 + 0.76
117	0.8504	0.8328	0.8155	-0.77 + 0.77
118	0.8276	0.8103	0.7934	-0.77 + 0.78
119	0.8055	0.7886	0.7720	-0.78 + 0.79
120	0.7841	0.7675	0.7513	-0.79 + 0.79
121	0.7632	0.7470	0.7311	-0.80 + 0.80
122	0.7430	0.7271	0.7116	-0.81 + 0.81
123	0.7235	0.7079	0.6926	-0.81 + 0.82
124	0.7045	0.6893	0.6743	-0.82 + 0.83
125	0.6862	0.6712	0.6566	-0.83 + 0.84
126	0.6684	0.6537	0.6394	-0.84 + 0.85
127	0.6511	0.6367	0.6227	-0.85 + 0.86
128	0.6344	0.6203	0.6065	-0.86 + 0.86
129	0.6182	0.6044	0.5909	-0.87 + 0.87
130	0.6024	0.5889	0.5757	-0.88 + 0.88
131	0.5871	0.5739	0.5609	-0.88 + 0.89
132	0.5722	0.5592	0.5465	-0.89 + 0.90
133	0.5578	0.5451	0.5326	-0.90 + 0.91
134	0.5438	0.5313	0.5191	-0.91 + 0.92
135	0.5302	0.5180	0.5060	-0.92 + 0.93
136	0.5171	0.5051	0.4933	-0.93 + 0.93
137	0.5043	0.4925	0.4810	-0.94 + 0.94
138	0.4919	0.4803	0.4690	-0.95 + 0.95
139	0.4798	0.4685	0.4574	-0.96 + 0.96
140	0.4681	0.4570	0.4462	-0.97 + 0.97
141	0.4567	0.4458	0.4352	-0.97 + 0.98
142	0.4456	0.4349	0.4245	-0.98 + 0.99
143	0.4348	0.4244	0.4141	-0.99 + 1.00
144	0.4244	0.4141	0.4041	-1.00 + 1.01
145	0.4142	0.4041	0.3943	-1.01 + 1.02
146	0.4043	0.3944	0.3848	-1.02 + 1.03
147	0.3947	0.3850	0.3756	-1.03 + 1.04

148	0.3854	0.3759	0.3666	-1.04 + 1.05
149	0.3764	0.3670	0.3579	-1.05 + 1.06
150	0.3676	0.3584	0.3495	-1.06 + 1.07