ELECTRICAL CHARACTERISTICS

1.1 Zero Power Resistance at 0°C: KO
10 kilo ohms ±2% [2] ±0.5°C (0-10°C) [3]

1.2 B-Value: B0/25 3860K 1% [3]

1.3 Thermal Time Constant (±63.2%):
40sec. max. (in still air)

1.4 Thermal Dissipation Constant:
2.5 mW/°C (in still air)

1.5 Insulation Resistance: 100 MΩ min.
(500 V DC in water)

1.6 Operating Temperature Range: -30 to +90°C

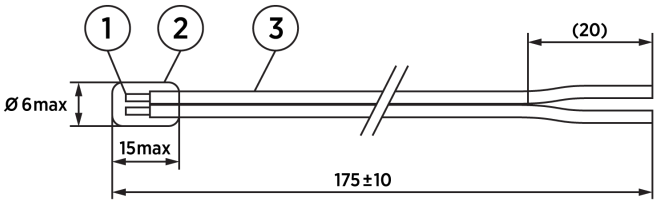
MECHANICAL CHARACTERISTICS

2.1 Tensile Strength

When 9.8 N(1 kg f) is applied gradually for 1 minute to the lead wire by fixing the epoxy resin, abnormality should not be allowed on appearance nor property

2.2 Drop Test

When natural drop is performed 5 times onto the oak-boad of thickness 10 mm thick from the height at 1m, abnormality shall not be allowed on appearance.



[2] Jan. 25 95 Changed (S.H.)

[3] Feb. 1 95 Added and Changed (S.H)

DIMENSION DRAWINGS

1.	Thermistor	Chip Type
2.	Coating Resin	Epoxy Resin
3.	Lead Wire	105°C Heat Resisting PVC (Black) Insulated Flat Cord °0.14 (7/0.16) (TW-11535)

RELIABILITY TEST

- High Temperature Storage Test
  Leave the test piece in atmosphere of 100°C for 1000 hours.

- Low Temperature Storage Test
  Leave the test piece in atmosphere of -30°C for 1000 hours.

- High Humidity Storage Test
  Leave the test piece in atmosphere of 65±1°C and 95%RH min. for 1000 hours.

- Temperature Cycling Test
  Perform 500 cycles with -30°C (in antifreeze coolant) ⇆ 10 min. room temperature (in air) ⇆ 2 min 90°C (in water) 10 min. as one cycle

After the test above items, resistance and B-value change ration shall be within ±3%, appearance shall not change and shall satisfy item 1.5.

R-T CONVERSION TABLE

TX (°C)	R MIN (KΩ)	R NOM (KΩ)	R MAX (KΩ)
-30.0	52.7751	54.7745	56.8275
-29.0	49.6043	51.4515	2.3465
-28.0	46.6449	48.3518	50.1016
-27.0	43.8814	45.4592	47.0753
-26.0	41.2996	42.7584	44.2514
-25.0	38.8865	40.2356	41.6152
-24.0	36.6300	37.8780	39.1531
-23.0	34.5190	35.6737	36.8525
-22.0	32.5432	33.6118	34.7019
-21.0	30.6931	31.6823	32.6900
-20.0	28.9600	29.8758	30.8084
-19.0	27.3358	28.1838	29.0466
-18.0	25.8129	26.5983	27.3967
-17.0	24.3844	25.1120	25.8509
-16.0	23.0440	23.7180	24.4020
-15.0	21.7858	22.4101	23.0434
-14.0	20.6039	21.1825	21.7689
-13.0	19.4935	20.0298	20.5727
-12.0	18.4499	18.9469	19.4497
-11.0	17.4685	17.9293	18.3948
-10.0	16.5454	16.9725	17.4037
-9.0	15.6767	16.0726	16.4720
-8.0	14.8589	15.2260	15.5959
-7.0	14.0888	14.4290	14.7716
-6.0	13.3632	13.6789	13.9960
-5.0	12.6794	12.9718	13.2657
-4.0	12.0346	12.3057	12.5779
-3.0	11.4265	11.6778	11.9298
-2.0	10.8280	11.0857	11.3191
-1.0	10.3113	10.5271	10.7432
0.0	9.8000	10.0000	10.2000
1.0	9.3073	9.5021	9.6971
2.0	8.8423	9.0320	9.2221
3.0	8.4034	8.5880	8.7731
4.0	7.9888	8.1684	8.3487
5.0	7.5972	7.7719	7.9473
6.0	7.2270	7.3969	7.5676
7.0	6.8771	7.0422	7.2083
8.0	6.5462	6.7066	6.8682
9.0	6.2331	6.3890	6.5461
10.0	5.9369	6.0883	6.2413

R-T CONVERSION TABLE

TX (°C)	R MIN (KΩ)	R NOM (KΩ)	R MAX (KΩ)
11.0	5.6564	5.8034	5.9518
12.0	5.3908	5.5336	5.6778
13.0	5.1392	5.2778	5.4179
14.0	4.9008	5.0354	5.1715
15.0	4.6748	4.8055	4.9376
16.0	4.4606	4.5873	4.7157
17.0	4.2574	4.3804	4.5050
18.0	4.0646	4.1839	1.3049
19.0	3.8816	3.9974	4.1148
20.0	3.7078	3.8202	3.9342
21.0	3.5429	3.6519	3.7626
22.0	3.3862	3.4919	3.5994
23.0	3.2373	3.3398	3.4442
24.0	3.0958	3.1952	3.2965
25.0	2.9612	3.0577	3.1560
26.0	2.8332	2.9268	3.0223
27.0	2.7115	2.8023	2.8949
28.0	2.5957	2.6838	2.7736
29.0	2.4854	2.5709	2.6581
30.0	2.3805	2.4633	2.5480
31.0	2.2805	2.3609	2.4431
32.0	2.1853	2.2633	2.3431
33.0	2.0946	2.1702	2.2477
34.0	2.0081	2.0815	2.1566
35.0	1.9257	1.9969	2.0698
36.0	1.8470	1.9161	1.9869
37.0	1.7720	1.8391	1.9078
38.0	1.7005	1.7655	1.8323
39.0	1.6322	1.6953	1.7601
40.0	1.5671	1.6283	1.6912
41.0	1.5048	1.5643	1.6254
42.0	1.4454	1.5031	1.5624
43.0	1.3886	1.4446	1.5022
44.0	1.3344	1.3887	1.4447
45.0	1.2825	1.3353	1.3896
46.0	1.2330	1.2842	1.3369
47.0	1.1856	1.2353	1.2865
48.0	1 .1402	1.1885	1.2383
49.0	1.0969	1.1437	1.1921
50.0	1.0554	1.1009	1.1479
51.0	1.0156	1.0598	1.1054
52.0	0.9775	1.0204	1.0647
53.0	0.9410	0.9827	1.0258
54.0	0.9061	0.9466	0.9884

R-T CONVERSION TABLE

TX (°C)	R MIN (KΩ)	R NOM (KΩ)	R MAX (KΩ)
55.0	0.8727	0.9120	0.9527
56.0	0.8406	0.8788	0.9184
57.0	0.8100	0.8471	0.8855
58.0	0.7806	0.8166	0.8540
59.0	0.7524	0.7874	0.8238
60.0	0.7254	0.7594	0.7948
61.0	0.6995	0.7326	0.7670
62.0	0.6747	0.7068	0.7403
63.0	0.6509	0.6821	0.7146
64.0	0.6280	0.6584	0.6900
65.0	0.6061	0.6356	0.6664
66.0	0.5850	0.6138	0.6437
67.0	0.5648	0.5928	0.6219
68.0	0.5454	0.5726	0.6009
69.0	0.5267	0.5532	0.5808
70.0	0.5088	0.5346	0.5614
71.0	0.4916	0.5167	0.5428
72.0	0.4751	0.4994	0.5249
73.0	0.4592	0.4829	0.5077
74.0	0.4439	0.4670	0.4911
75.0	0.4292	0.4517	0.4751
76.0	0.4150	0.4369	0.4598
77.0	0.4014	0.4227	0.4450
78.0	0.3883	0.4091	0.4308
79.0	0.3757	0.3960	0.4171
80.0	0.3636	0.3833	0.4039
81.0	0.3519	0.3711	0.3912
82.0	0.3407	0.3594	0.3789
83.0	0.3299	0.3481	0.3671
84.0	0.3194	0.3372	0.3558
85.0	0.3094	0.3267	0.3448
86.0	0.2997	0.3165	0.3342
87.0	0.2904	0.3068	0.3240
88.0	0.2814	0.2974	0.3140
89.0	0.2727	0.2883	0.3047
90.0	0.2643	0.2795	0.2955

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