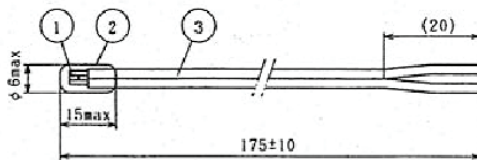


ELECTRICAL CHARACTERISTICS

- 1.1 Zero Power Resistance at 0°C: KO
10 kilo ohms $\pm 2\%$ $\pm 0.5^\circ\text{C}$ (0-10°C)³
- 1.2 B-Value: B0/25 3860K 1%³
- 1.3 Thermal Time Constant ($\pm 63.2\%$) :
40 sec. 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-board of thickness 10 mm thick from the height at 1m, abnormality shall not be allowed on appearance.



DIMENSION DRAWINGS

| | | |
|---|-----------------------------------|--|
| 1 | Thermistor | Chip Type |
| 2 | Coating Resin | Epoxy Resin |
| 3 | Lead Wire | 105°C Heat Resisting PVC (Black) Insulated Flat Cord $\phi 0.14$ (7/0.16) (TW-11535) |
| 2 | Jan.25 95 Changed (S.H) | |
| 3 | Feb. 1 95 Added and Changed (S.H) | |

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 $65 \pm 1^\circ\text{C}$ and 95%RH min. for 1000 hours.
 - Temperature Cycling Test
Perform 500 cycles with -30°C (in antifreeze coolant) \rightleftharpoons 10 min. room temperature (in air) \rightleftharpoons 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 $\pm 3\%$, appearance shall not change and shall satisfy item 1.5

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| 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 | 32.690 |
| -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 | 10.828 | 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 |

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