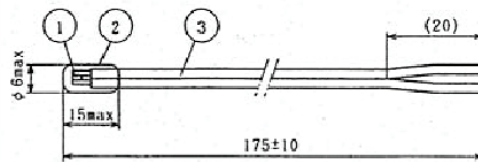


ELECTRICAL CHARACTERISTICS

- 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

global solutions: local support™

Americas: +1.800.843.4556

Europe: +49.8031.2460.0

Asia: +86.755.2714.1166

CLV-customerservice@lairdtech.com

www.lairdtech.com/thermal

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

global solutions: local service

Americas: +1.800.843.4556

Europe: +49.8031.2460.0

Asia: +86.755.2714.1166

CLV-customerservice@lairdtech.com

www.lairdtech.com/thermal

THR-DS-TC-NTC-1 0311

Any information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Technologies materials rests with the end user, since Laird Technologies and its agents cannot be aware of all potential uses. Laird Technologies makes no warranties as to the fitness, merchantability or suitability of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies' Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2011 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies Logo, and other marks are trademarks or registered trademarks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Laird Technologies:](#)

[TC-NTC-1](#)