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SPECIFICATION FOR APPROVAL

CUSTOMER	立創電子
CERTIFIED MODEL/TYPE	DHT-104
PART NO.	DHT0A104J3472SY(RoHS)
APPLICATION	
CUSTOMER P/N	
ISSUE DATE	Jul.07.2022
REV. NO.	
REV. DATE	

FOR CUSTOMER APPROVAL	CHECKED BY
	<i>Haili Gong</i>
	APPROVED BY
	<i>Huaifang Zhang</i>





REVISED RECORD SHEET

REV. NO	REV. DATE	REVISED CONTENT



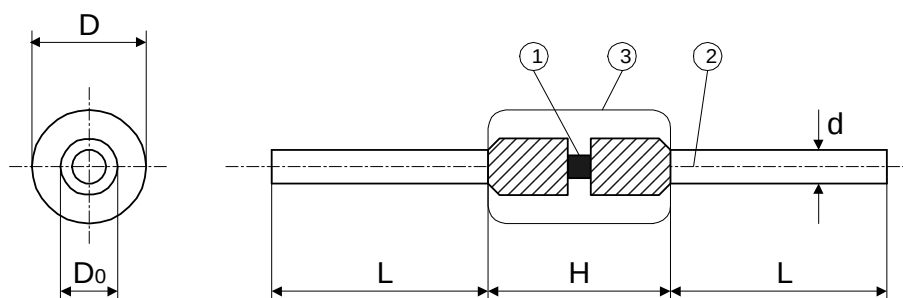
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Part Number Code

Example :

DHT **0** **A** **104** **J** **347** **2** **S** **Y**
(1) **(2)** **(3)** **(4)** **(5)** **(6)** **(7)** **(8)** **(9)**

No.	Item	Digit	Specification
(1)	Product Type	DHT	Thinking NTC thermistor DHT type
(2)	Body Size	0	φ 2 mm x L4 mm (max.)
(3)	Definition of B Value	A	B _{25/85}
(4)	Zero Power Resistance at 25°C	104	10 x 10 ⁴ Ω = 100 KΩ
(5)	Tolerance of R25	J	± 5%
(6)	B Value	347	3470K
(7)	Tolerance of B Value	2	±2%
(8)	Appearance	S	Tin-plated CP wire
(9)	Optional Suffix	Y	RoHS compliance

Structure and Dimensions

(unit:mm)

D max.	H max.	d	L	D0
2	4	0.5±0.02	28± 1	0.7 ~0.9

Electrical Characteristics

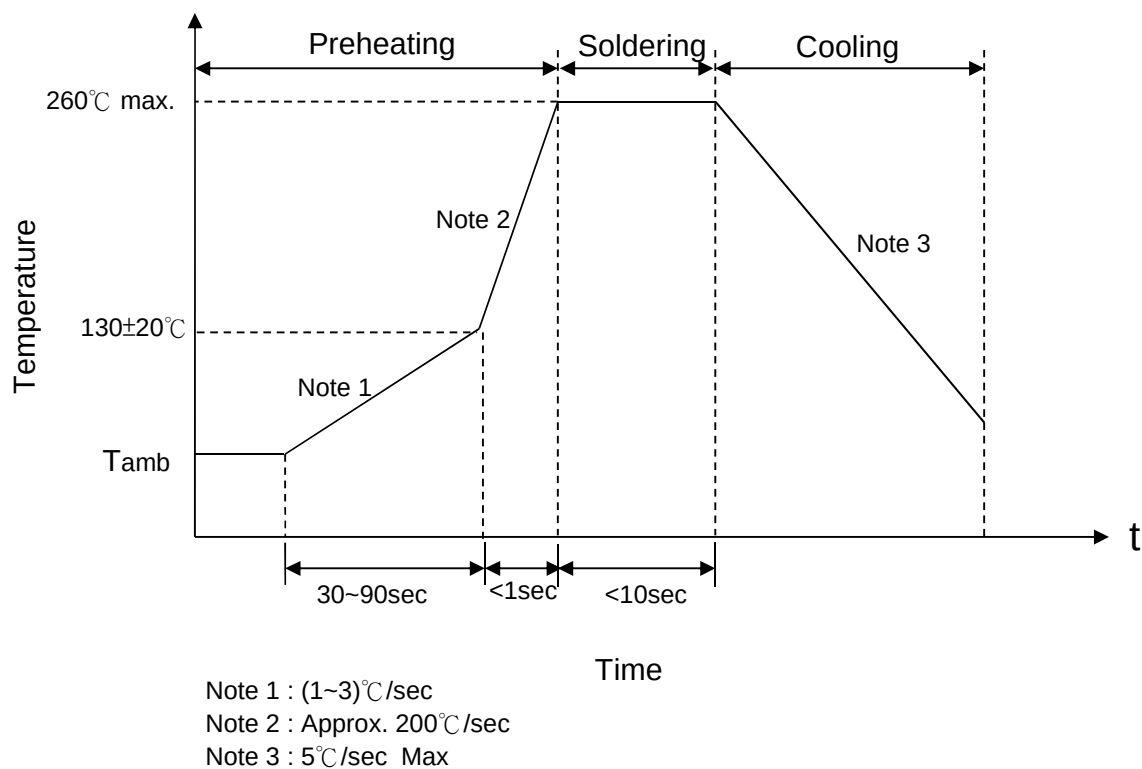
Part No.	Zero Power Resistance at 25°C	Tolerance of $R_{25^\circ\text{C}}$	$B_{25/85}$ Value	Tolerance of B Value	Max. Power Dissipation at 25°C	Dissipation Factor	Thermal Time Constant	Operating Temperature Range
	$R_{25^\circ\text{C}}$ (K Ω)	($\pm$ %)	(K)	($\pm$ %)	P_{max} (mW)	δ (mW/°C)	τ (sec.)	$T_L \sim T_U$ (°C)
DHT0A104J3472SY	100	5	3470	2	120	≥ 2	≤ 10	-40 ~+200

Reliability

Item	Standard	Test conditions / Methods	Specifications															
Tensile Strength of Terminals	IEC60068-2-21	Gradually applying the force specified and keeping the unit fixed for 10±1 sec. Terminal diameter (mm) 0.3<d≤0.5 Force (Kg) 0.5	No visible damage ΔR25/R25 ≤ 3 %															
Bending Strength of Terminals	IEC60068-2-21	Hold specimen and apply the force specified below to each lead. Bend the specimen to 90°, then return to the original position. Repeat the procedure in the opposite direction. Terminal diameter (mm) 0.3<d≤0.5 Force (Kg) 0.25	No visible damage ΔR25/R25 ≤ 3 %															
Solderability	IEC60068-2-20	245 ± 5 °C , 3 ± 0.5 sec	At least 95% of terminal electrode is covered by new solder															
Resistance to Soldering Heat	IEC60068-2-20	260 ± 3 °C , 10 ± 1 sec	No visible damage ΔR25/R25 ≤ 3 %															
High Temperature Storage	IEC60068-2-2	200± 5 °C , 1000 ± 24 hrs	No visible damage ΔR25/R25 ≤ 5 %															
Damp Heat , Steady State	IEC 60068-2-78	40 ± 2 °C , 90 ~ 95 % RH , 1000 ± 24 hrs	No visible damage ΔR25/R25 ≤ 3 %															
Rapid Change of Temperature	IEC60068-2-14	The conditions shown below shall be repeated 5 cycles <table><tr><th>Step</th><th>Temperature (°C)</th><th>Period (minutes)</th></tr><tr><td>1</td><td>-40 ± 5</td><td>30 ± 3</td></tr><tr><td>2</td><td>Room temperature</td><td>5 ± 3</td></tr><tr><td>3</td><td>200 ± 5</td><td>30 ± 3</td></tr><tr><td>4</td><td>Room temperature</td><td>5 ± 3</td></tr></table>	Step	Temperature (°C)	Period (minutes)	1	-40 ± 5	30 ± 3	2	Room temperature	5 ± 3	3	200 ± 5	30 ± 3	4	Room temperature	5 ± 3	No visible damage ΔR25/R25 ≤ 3 %
Step	Temperature (°C)	Period (minutes)																
1	-40 ± 5	30 ± 3																
2	Room temperature	5 ± 3																
3	200 ± 5	30 ± 3																
4	Room temperature	5 ± 3																
Max. Power Dissipation	IEC60539-1 4.26.3	25 ± 5 °C , Pmax. , 1000 ± 24 hrs	No visible damage ΔR25/R25 ≤ 5 %															
Dissipation Factor (δ)	Specifcation	Dissipation factor is ration of thermistor's temperature change caused by its dissipation power under specific ambienttemperature. which stands for dissipation power for thermistor's increase of 1°C. δ =V*I / T2-T1(mW/°C)	≥2mW/°C															
Thermal Time Constant(τ)	Specifcation	The thermal time constant is a 63.2% change of thermistor's body temperature from its initial temperature (T0) tospecific temperature (T1) under zero-power conditions.	≤10Sec															

Soldering Recommendation

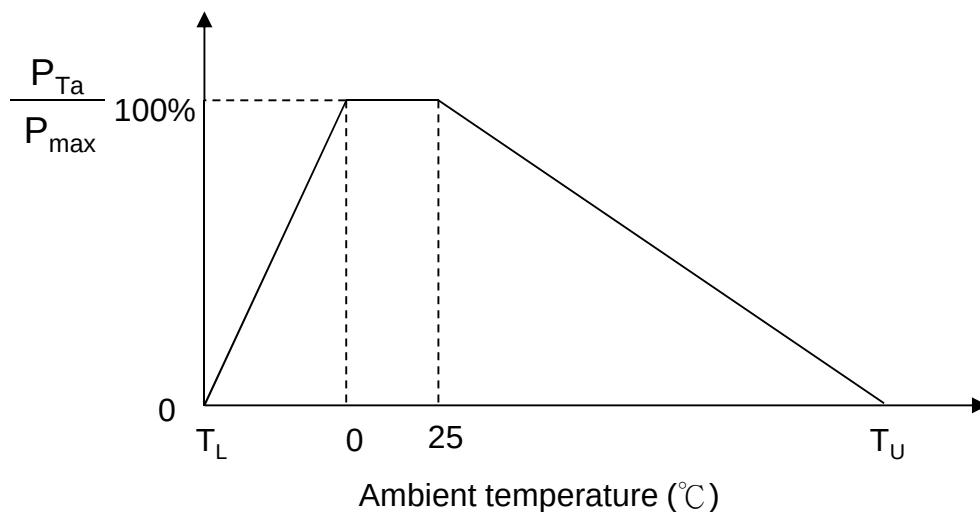
■ Wave Soldering Profile



■ Recommended Reworking Conditions with Soldering Iron

Item	Conditions
Temperature of Soldering Iron-tip	360°C (max.)
Soldering Time	3 sec (max.)
Distance from Thermistor	2 mm (min.)

Max. Power Dissipation Derating Curve



Note: T_L = Minimum operating temperature($^{\circ}\text{C}$)

T_U = Maximum operating temperature ($^{\circ}\text{C}$)

For example :

Ambient temperature(T_a)= 55°C

Maximum operating temperature(T_u)= 200°C

$P_{Ta} = (T_u - T_a) / (T_u - 25) \times P_{max} = 83\% P_{max}$

RoHS Compliant Declaration

We hereby declare that the components delivered to your company are compliant with RoHS directive 2015/863/EU.

Warehouse Storage Conditions of Products

(I) Storage Conditions :

- 1.Storage Temperature : $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- 2.Relative Humidity : $\leq 75\% \text{RH}$ (not dewing condition)
- 3.Keep away from corrosive atmosphere and sunlight.

(II) Period of Storage : 1 year

Install and use

1. Use this product within the specified temperature range.
2. Higher temperature may cause deterioration of the characteristics or the material quality of this product.
3. Do not melt the solder in resin head, when you solder this product. If you melt the solder in resin head, it has possibility that the break of wire, short and insulation damage.
4. Do not touch the resin head directly by solder iron. It may cause the melt of solder in resin head.
5. At least away from resin head 10mm above when lead dividing.
6. In case you cut the lead wire of this product less than 10mm from resin head, the heat of melted solder at lead wire edge is propagated easily to the resin head along the lead wire.
7. Radius of lead bending should be more than 2mm when lead bending.
Holding element by side lead wire is recommended when lead wire is bent or cut.
8. Do not apply an excessive force to the lead. Otherwise, it may cause junction between lead and element to break or crack.
9. The ceramic element of this product is fragile, and care must be taken not to load an excessive press-force or not to give a shock at handling. Such forces may cause cracking or chipping.
10. If you mold by resin this product, please evaluate the quality of this product before you use it.

Storage place condition

To keep solderability of product from declining, the following storage condition is recommended.

1. Storage condition:
Temperature -10°C to +40°C
Humidity less than 75%RH (not dewing condition)
2. Storage term:
Use this product within 1 year after delivery by first-in and first-out stocking system.
3. Handling after unpacking:
After unpacking, reseal product promptly or store it in a sealed container with a drying agent.
4. Storage place:
Do not store this product in corrosive gas (Sulfuric acid gas, Chlorine gas, etc.) or in direct sunlight.

Warn and note item

This product is designed for application in an ordinary environment (normal room temperature, humidity and atmospheric pressure).

Do not use under the following conditions because all of these factors can deteriorate the product characteristics or cause failures and burn-out.

1. Corrosive gas or deoxidizing gas (Chlorine gas, Hydrogen sulfide gas, Ammonia gas, Sulfuric acid gas, Nitric oxide gas, etc.)
2. Volatile or flammable gas
3. Dusty conditions
4. Under vacuum, or under high or low pressure
5. Wet or humid locations; soak in the liquid or wash with liquid
6. Places with salt water, oils, chemical liquids or organic solvents and do not use directly with quick-drying glue.
7. Strong vibrations
8. Other places where similar hazardous conditions exist
9. Be sure to provide an appropriate fail-safe function on your product to prevent secondary damages that may be caused by the abnormal function or the failure of our product.
10. This series is manufactured and promoted for applying in general electronics devices such as audio-video equipment, home electric appliance, office automation equipment, communication equipment, power module, LED lighting, measurement hardware, machine accessory, etc.
11. This series cannot be applied in area like automotive product, military, aerospace, etc. except general electronic device. Thinking shall not be held liable for any malfunction or breakdown caused by using product in the condition which is inconsistent with that recommended by Thinking.

Safety Approvals (Certified Model/Type : DHT-104)



* UL 1434 / cUL recognized (File # E138827)

Certificates

- (1) TS 16949 certificate
- (2) ISO 9001 certificate

Test Report

- (1) RoHS test report



R -T Table

Part No.:DHT0A104J3472SY

R25 = 100KOhm $\pm 5\%$

B25/85 = 3470K $\pm 2\%$

Temperature (°C)	Rmax. (KΩ)	Rnor. (KΩ)	Rmin. (KΩ)	Temperature Tol. (°C)		Resistance Tol. (%)	
-40	2,198.1	1,972.2	1,765.2	-2.00	1.98	11.5%	-10.5%
-39	2,079.2	1,867.5	1,673.3	-2.02	1.98	11.3%	-10.4%
-38	1,968.0	1,769.6	1,587.2	-2.02	1.98	11.2%	-10.3%
-37	1,863.3	1,677.3	1,506.1	-2.02	1.96	11.1%	-10.2%
-36	1,764.6	1,590.1	1,429.3	-2.00	1.95	11.0%	-10.1%
-35	1,671.3	1,507.6	1,356.6	-1.98	1.93	10.9%	-10.0%
-34	1,583.0	1,429.5	1,287.7	-1.96	1.92	10.7%	-9.9%
-33	1,499.5	1,355.5	1,222.4	-1.95	1.90	10.6%	-9.8%
-32	1,420.6	1,285.6	1,160.5	-1.93	1.89	10.5%	-9.7%
-31	1,346.1	1,219.4	1,101.9	-1.91	1.88	10.4%	-9.6%
-30	1,275.8	1,157.0	1,046.6	-1.90	1.87	10.3%	-9.5%
-29	1,209.4	1,097.9	994.24	-1.89	1.86	10.2%	-9.4%
-28	1,146.9	1,042.3	944.79	-1.88	1.85	10.0%	-9.4%
-27	1,087.9	989.70	898.08	-1.87	1.85	9.9%	-9.3%
-26	1,032.4	940.11	853.96	-1.86	1.84	9.8%	-9.2%
-25	979.99	893.33	812.30	-1.85	1.84	9.7%	-9.1%
-24	930.61	849.17	772.93	-1.84	1.83	9.6%	-9.0%
-23	884.04	807.50	735.74	-1.84	1.82	9.5%	-8.9%
-22	840.11	768.14	700.58	-1.83	1.82	9.4%	-8.8%
-21	798.66	730.96	667.33	-1.82	1.81	9.3%	-8.7%
-20	759.51	695.82	635.87	-1.81	1.80	9.2%	-8.6%
-19	722.54	662.59	606.10	-1.80	1.80	9.0%	-8.5%
-18	687.59	631.16	577.91	-1.80	1.79	8.9%	-8.4%
-17	654.55	601.41	551.20	-1.79	1.78	8.8%	-8.3%
-16	623.29	573.24	525.88	-1.78	1.77	8.7%	-8.3%
-15	593.70	546.55	501.88	-1.77	1.77	8.6%	-8.2%
-14	565.69	521.25	479.10	-1.76	1.76	8.5%	-8.1%
-13	539.15	497.27	457.49	-1.75	1.75	8.4%	-8.0%
-12	514.00	474.52	436.97	-1.74	1.74	8.3%	-7.9%
-11	490.16	452.93	417.48	-1.72	1.73	8.2%	-7.8%
-10	467.56	432.44	398.96	-1.71	1.72	8.1%	-7.7%
-9	446.11	412.99	381.36	-1.70	1.71	8.0%	-7.7%
-8	425.76	394.51	364.64	-1.69	1.70	7.9%	-7.6%
-7	406.45	376.96	348.73	-1.68	1.69	7.8%	-7.5%
-6	388.11	360.28	333.60	-1.67	1.68	7.7%	-7.4%
-5	370.70	344.42	319.21	-1.66	1.67	7.6%	-7.3%
-4	354.16	329.35	305.51	-1.65	1.66	7.5%	-7.2%
-3	338.44	315.01	292.47	-1.63	1.65	7.4%	-7.2%
-2	323.51	301.38	280.06	-1.62	1.64	7.3%	-7.1%
-1	309.31	288.41	268.24	-1.61	1.63	7.2%	-7.0%



R -T Table

Part No.:DHT0A104J3472SY

R25 = 100KOhm $\pm 5\%$

B25/85 = 3470K $\pm 2\%$

Temperature (°C)	Rmax. (KΩ)	Rnor. (KΩ)	Rmin. (KΩ)	Temperature Tol. (°C)		Resistance Tol. (%)	
0	295.81	276.06	256.99	-1.60	1.62	7.2%	-6.9%
1	282.98	264.31	246.26	-1.59	1.61	7.1%	-6.8%
2	270.77	253.13	236.05	-1.58	1.60	7.0%	-6.7%
3	259.15	242.48	226.31	-1.57	1.59	6.9%	-6.7%
4	248.10	232.33	217.03	-1.55	1.58	6.8%	-6.6%
5	237.57	222.67	208.17	-1.54	1.57	6.7%	-6.5%
6	227.56	213.46	199.73	-1.53	1.56	6.6%	-6.4%
7	218.01	204.68	191.68	-1.52	1.55	6.5%	-6.4%
8	208.92	196.31	183.99	-1.51	1.54	6.4%	-6.3%
9	200.26	188.33	176.66	-1.50	1.53	6.3%	-6.2%
10	192.01	180.71	169.66	-1.48	1.52	6.3%	-6.1%
11	184.14	173.45	162.97	-1.47	1.51	6.2%	-6.0%
12	176.63	166.52	156.59	-1.46	1.50	6.1%	-6.0%
13	169.48	159.90	150.48	-1.45	1.49	6.0%	-5.9%
14	162.65	153.58	144.65	-1.43	1.48	5.9%	-5.8%
15	156.13	147.54	139.08	-1.42	1.47	5.8%	-5.7%
16	149.91	141.78	133.75	-1.41	1.46	5.7%	-5.7%
17	143.97	136.26	128.65	-1.40	1.45	5.7%	-5.6%
18	138.29	131.00	123.78	-1.38	1.43	5.6%	-5.5%
19	132.87	125.96	119.11	-1.37	1.42	5.5%	-5.4%
20	127.69	121.14	114.65	-1.36	1.41	5.4%	-5.4%
21	122.74	116.54	110.37	-1.35	1.40	5.3%	-5.3%
22	118.00	112.13	106.28	-1.33	1.39	5.2%	-5.2%
23	113.48	107.91	102.36	-1.32	1.37	5.2%	-5.1%
24	109.14	103.87	98.600	-1.31	1.36	5.1%	-5.1%
25	105.00	100.00	95.000	-1.29	1.35	5.0%	-5.0%
26	101.19	96.296	91.412	-1.32	1.38	5.1%	-5.1%
27	97.531	92.747	87.977	-1.35	1.40	5.2%	-5.1%
28	94.025	89.346	84.688	-1.38	1.43	5.2%	-5.2%
29	90.663	86.087	81.538	-1.40	1.46	5.3%	-5.3%
30	87.438	82.963	78.521	-1.43	1.48	5.4%	-5.4%
31	84.343	79.968	75.631	-1.46	1.51	5.5%	-5.4%
32	81.373	77.096	72.861	-1.49	1.54	5.5%	-5.5%
33	78.522	74.340	70.206	-1.52	1.56	5.6%	-5.6%
34	75.784	71.697	67.660	-1.55	1.59	5.7%	-5.6%
35	73.156	69.160	65.220	-1.58	1.62	5.8%	-5.7%
36	70.632	66.726	62.879	-1.60	1.65	5.9%	-5.8%
37	68.206	64.389	60.633	-1.63	1.67	5.9%	-5.8%
38	65.877	62.145	58.479	-1.66	1.70	6.0%	-5.9%
39	63.638	59.991	56.412	-1.69	1.73	6.1%	-6.0%



R -T Table

Part No.:DHT0A104J3472SY

R25 = 100KOhm $\pm 5\%$

B25/85 = 3470K $\pm 2\%$

Temperature (°C)	Rmax. (KΩ)	Rnor. (KΩ)	Rmin. (KΩ)	Temperature Tol. (°C)		Resistance Tol. (%)	
40	61.486	57.922	54.428	-1.72	1.76	6.2%	-6.0%
41	59.417	55.934	52.523	-1.75	1.79	6.2%	-6.1%
42	57.428	54.024	50.694	-1.78	1.81	6.3%	-6.2%
43	55.515	52.188	48.938	-1.81	1.84	6.4%	-6.2%
44	53.676	50.424	47.252	-1.84	1.87	6.4%	-6.3%
45	51.906	48.729	45.632	-1.87	1.90	6.5%	-6.4%
46	50.204	47.098	44.075	-1.90	1.93	6.6%	-6.4%
47	48.566	45.531	42.579	-1.94	1.96	6.7%	-6.5%
48	46.989	44.023	41.141	-1.97	1.99	6.7%	-6.5%
49	45.471	42.573	39.759	-2.00	2.02	6.8%	-6.6%
50	44.010	41.177	38.430	-2.03	2.05	6.9%	-6.7%
51	42.604	39.835	37.153	-2.06	2.08	7.0%	-6.7%
52	41.249	38.543	35.924	-2.09	2.11	7.0%	-6.8%
53	39.944	37.299	34.742	-2.13	2.14	7.1%	-6.9%
54	38.687	36.101	33.605	-2.16	2.17	7.2%	-6.9%
55	37.476	34.949	32.510	-2.19	2.20	7.2%	-7.0%
56	36.309	33.838	31.457	-2.22	2.23	7.3%	-7.0%
57	35.184	32.769	30.443	-2.26	2.26	7.4%	-7.1%
58	34.099	31.739	29.468	-2.29	2.29	7.4%	-7.2%
59	33.054	30.746	28.528	-2.32	2.32	7.5%	-7.2%
60	32.046	29.789	27.623	-2.36	2.35	7.6%	-7.3%
61	31.073	28.867	26.751	-2.39	2.38	7.6%	-7.3%
62	30.136	27.979	25.911	-2.43	2.41	7.7%	-7.4%
63	29.231	27.122	25.102	-2.46	2.44	7.8%	-7.4%
64	28.358	26.295	24.322	-2.50	2.48	7.8%	-7.5%
65	27.515	25.498	23.570	-2.53	2.51	7.9%	-7.6%
66	26.702	24.729	22.846	-2.57	2.54	8.0%	-7.6%
67	25.917	23.988	22.147	-2.60	2.57	8.0%	-7.7%
68	25.158	23.272	21.473	-2.64	2.60	8.1%	-7.7%
69	24.426	22.581	20.823	-2.67	2.64	8.2%	-7.8%
70	23.719	21.914	20.196	-2.71	2.67	8.2%	-7.8%
71	23.036	21.270	19.591	-2.74	2.70	8.3%	-7.9%
72	22.376	20.648	19.007	-2.78	2.73	8.4%	-8.0%
73	21.738	20.048	18.443	-2.81	2.77	8.4%	-8.0%
74	21.121	19.468	17.899	-2.85	2.80	8.5%	-8.1%
75	20.525	18.907	17.373	-2.89	2.83	8.6%	-8.1%
76	19.949	18.366	16.866	-2.92	2.87	8.6%	-8.2%
77	19.391	17.842	16.376	-2.96	2.90	8.7%	-8.2%
78	18.852	17.336	15.902	-3.00	2.93	8.7%	-8.3%
79	18.331	16.847	15.445	-3.03	2.96	8.8%	-8.3%



R -T Table

Part No.:DHT0A104J3472SY

R25 = 100KOhm $\pm 5\%$

B25/85 = 3470K $\pm 2\%$

Temperature (°C)	Rmax. (KΩ)	Rnor. (KΩ)	Rmin. (KΩ)	Temperature Tol. (°C)		Resistance Tol. (%)	
80	17.826	16.374	15.003	-3.07	3.00	8.9%	-8.4%
81	17.338	15.917	14.575	-3.11	3.03	8.9%	-8.4%
82	16.866	15.474	14.162	-3.14	3.07	9.0%	-8.5%
83	16.408	15.046	13.762	-3.18	3.10	9.1%	-8.5%
84	15.965	14.632	13.376	-3.22	3.13	9.1%	-8.6%
85	15.537	14.231	13.002	-3.26	3.17	9.2%	-8.6%
86	15.121	13.843	12.641	-3.29	3.20	9.2%	-8.7%
87	14.719	13.467	12.291	-3.33	3.23	9.3%	-8.7%
88	14.329	13.103	11.952	-3.37	3.27	9.4%	-8.8%
89	13.952	12.751	11.625	-3.41	3.30	9.4%	-8.8%
90	13.586	12.410	11.308	-3.45	3.34	9.5%	-8.9%
91	13.231	12.079	11.000	-3.48	3.37	9.5%	-8.9%
92	12.887	11.759	10.703	-3.52	3.40	9.6%	-9.0%
93	12.554	11.449	10.415	-3.56	3.44	9.7%	-9.0%
94	12.231	11.148	10.136	-3.60	3.47	9.7%	-9.1%
95	11.917	10.857	9.8659	-3.64	3.51	9.8%	-9.1%
96	11.613	10.574	9.6041	-3.68	3.54	9.8%	-9.2%
97	11.318	10.300	9.3503	-3.72	3.58	9.9%	-9.2%
98	11.032	10.035	9.1044	-3.75	3.61	9.9%	-9.3%
99	10.754	9.7769	8.8660	-3.79	3.64	10.0%	-9.3%
100	10.485	9.5270	8.6349	-3.83	3.68	10.1%	-9.4%
101	10.223	9.2845	8.4108	-3.87	3.71	10.1%	-9.4%
102	9.9695	9.0493	8.1935	-3.91	3.75	10.2%	-9.5%
103	9.7230	8.8211	7.9828	-3.95	3.78	10.2%	-9.5%
104	9.4837	8.5996	7.7784	-3.99	3.82	10.3%	-9.5%
105	9.2512	8.3845	7.5801	-4.03	3.85	10.3%	-9.6%
106	9.0255	8.1758	7.3876	-4.07	3.89	10.4%	-9.6%
107	8.8062	7.9732	7.2009	-4.11	3.93	10.4%	-9.7%
108	8.5932	7.7765	7.0197	-4.15	3.96	10.5%	-9.7%
109	8.3863	7.5854	6.8439	-4.19	4.00	10.6%	-9.8%
110	8.1852	7.3998	6.6731	-4.23	4.03	10.6%	-9.8%
111	7.9898	7.2196	6.5074	-4.27	4.07	10.7%	-9.9%
112	7.7998	7.0445	6.3465	-4.31	4.10	10.7%	-9.9%
113	7.6152	6.8744	6.1902	-4.36	4.14	10.8%	-10.0%
114	7.4358	6.7092	6.0385	-4.40	4.18	10.8%	-10.0%
115	7.2613	6.5486	5.8911	-4.44	4.21	10.9%	-10.0%
116	7.0916	6.3925	5.7479	-4.48	4.25	10.9%	-10.1%
117	6.9267	6.2408	5.6088	-4.52	4.29	11.0%	-10.1%
118	6.7663	6.0934	5.4736	-4.56	4.32	11.0%	-10.2%
119	6.6102	5.9500	5.3423	-4.61	4.36	11.1%	-10.2%



R -T Table

Part No.:DHT0A104J3472SY

R25 = 100KOhm $\pm 5\%$

B25/85 = 3470K $\pm 2\%$

Temperature (°C)	Rmax. (KΩ)	Rnor. (KΩ)	Rmin. (KΩ)	Temperature Tol. (°C)		Resistance Tol. (%)	
120	6.4584	5.8106	5.2147	-4.65	4.40	11.1%	-10.3%
121	6.3108	5.6751	5.0907	-4.69	4.43	11.2%	-10.3%
122	6.1672	5.5433	4.9702	-4.73	4.47	11.3%	-10.3%
123	6.0274	5.4152	4.8530	-4.78	4.51	11.3%	-10.4%
124	5.8914	5.2905	4.7391	-4.82	4.55	11.4%	-10.4%
125	5.7590	5.1693	4.6283	-4.86	4.59	11.4%	-10.5%
126	5.6302	5.0513	4.5206	-4.91	4.62	11.5%	-10.5%
127	5.5048	4.9366	4.4159	-4.95	4.66	11.5%	-10.5%
128	5.3828	4.8249	4.3140	-5.00	4.70	11.6%	-10.6%
129	5.2640	4.7162	4.2149	-5.04	4.74	11.6%	-10.6%
130	5.1483	4.6105	4.1186	-5.09	4.78	11.7%	-10.7%
131	5.0356	4.5076	4.0248	-5.13	4.82	11.7%	-10.7%
132	4.9260	4.4074	3.9336	-5.18	4.86	11.8%	-10.8%
133	4.8191	4.3099	3.8449	-5.22	4.90	11.8%	-10.8%
134	4.7151	4.2150	3.7585	-5.27	4.94	11.9%	-10.8%
135	4.6137	4.1226	3.6745	-5.31	4.98	11.9%	-10.9%
136	4.5150	4.0326	3.5927	-5.36	5.02	12.0%	-10.9%
137	4.4188	3.9449	3.5130	-5.41	5.06	12.0%	-10.9%
138	4.3251	3.8596	3.4355	-5.45	5.10	12.1%	-11.0%
139	4.2338	3.7765	3.3601	-5.50	5.14	12.1%	-11.0%
140	4.1448	3.6955	3.2866	-5.55	5.18	12.2%	-11.1%
141	4.0581	3.6166	3.2151	-5.60	5.23	12.2%	-11.1%
142	3.9736	3.5398	3.1454	-5.65	5.27	12.3%	-11.1%
143	3.8912	3.4649	3.0776	-5.69	5.31	12.3%	-11.2%
144	3.8109	3.3919	3.0115	-5.74	5.35	12.4%	-11.2%
145	3.7326	3.3208	2.9471	-5.79	5.39	12.4%	-11.3%
146	3.6562	3.2515	2.8844	-5.84	5.44	12.4%	-11.3%
147	3.5818	3.1840	2.8233	-5.89	5.48	12.5%	-11.3%
148	3.5092	3.1181	2.7637	-5.94	5.52	12.5%	-11.4%
149	3.4384	3.0540	2.7057	-5.99	5.56	12.6%	-11.4%
150	3.3693	2.9914	2.6492	-6.04	5.61	12.6%	-11.4%
151	3.3019	2.9303	2.5941	-6.09	5.65	12.7%	-11.5%
152	3.2362	2.8708	2.5403	-6.14	5.69	12.7%	-11.5%
153	3.1721	2.8128	2.4880	-6.19	5.74	12.8%	-11.5%
154	3.1095	2.7562	2.4369	-6.24	5.78	12.8%	-11.6%
155	3.0484	2.7009	2.3871	-6.29	5.83	12.9%	-11.6%
156	2.9888	2.6471	2.3385	-6.34	5.87	12.9%	-11.7%
157	2.9306	2.5945	2.2912	-6.39	5.91	13.0%	-11.7%
158	2.8738	2.5432	2.2450	-6.45	5.96	13.0%	-11.7%
159	2.8184	2.4931	2.1999	-6.50	6.00	13.0%	-11.8%



R -T Table

Part No.:DHT0A104J3472SY

R25 = 100KOhm $\pm 5\%$

B25/85 = 3470K $\pm 2\%$

Temperature (°C)	Rmax. (KΩ)	Rnor. (KΩ)	Rmin. (KΩ)	Temperature Tol. (°C)		Resistance Tol. (%)	
160	2.7642	2.4443	2.1559	-6.55	6.04	13.1%	-11.8%
161	2.7114	2.3966	2.1130	-6.60	6.09	13.1%	-11.8%
162	2.6597	2.3500	2.0712	-6.65	6.13	13.2%	-11.9%
163	2.6093	2.3045	2.0303	-6.70	6.18	13.2%	-11.9%
164	2.5600	2.2601	1.9904	-6.75	6.22	13.3%	-11.9%
165	2.5119	2.2168	1.9515	-6.81	6.26	13.3%	-12.0%
166	2.4648	2.1744	1.9134	-6.86	6.31	13.4%	-12.0%
167	2.4189	2.1330	1.8763	-6.91	6.35	13.4%	-12.0%
168	2.3739	2.0926	1.8401	-6.96	6.40	13.4%	-12.1%
169	2.3300	2.0531	1.8046	-7.01	6.44	13.5%	-12.1%
170	2.2871	2.0145	1.7700	-7.06	6.48	13.5%	-12.1%
171	2.2451	1.9768	1.7362	-7.11	6.52	13.6%	-12.2%
172	2.2041	1.9399	1.7032	-7.16	6.57	13.6%	-12.2%
173	2.1639	1.9039	1.6709	-7.21	6.61	13.7%	-12.2%
174	2.1246	1.8686	1.6394	-7.26	6.65	13.7%	-12.3%
175	2.0862	1.8342	1.6085	-7.31	6.69	13.7%	-12.3%
176	2.0486	1.8005	1.5784	-7.36	6.73	13.8%	-12.3%
177	2.0119	1.7675	1.5489	-7.41	6.77	13.8%	-12.4%
178	1.9759	1.7352	1.5201	-7.46	6.81	13.9%	-12.4%
179	1.9406	1.7036	1.4919	-7.51	6.85	13.9%	-12.4%
180	1.9061	1.6727	1.4643	-7.55	6.89	14.0%	-12.5%
181	1.8723	1.6425	1.4373	-7.60	6.93	14.0%	-12.5%
182	1.8393	1.6129	1.4109	-7.65	6.97	14.0%	-12.5%
183	1.8069	1.5839	1.3850	-7.69	7.01	14.1%	-12.6%
184	1.7751	1.5555	1.3597	-7.74	7.05	14.1%	-12.6%
185	1.7440	1.5277	1.3349	-7.78	7.08	14.2%	-12.6%
186	1.7136	1.5005	1.3107	-7.83	7.12	14.2%	-12.7%
187	1.6837	1.4738	1.2869	-7.87	7.15	14.2%	-12.7%
188	1.6545	1.4477	1.2636	-7.91	7.19	14.3%	-12.7%
189	1.6258	1.4221	1.2408	-7.95	7.22	14.3%	-12.7%
190	1.5976	1.3970	1.2185	-7.99	7.25	14.4%	-12.8%
191	1.5700	1.3724	1.1966	-8.03	7.28	14.4%	-12.8%
192	1.5430	1.3482	1.1751	-8.07	7.31	14.4%	-12.8%
193	1.5164	1.3246	1.1541	-8.11	7.34	14.5%	-12.9%
194	1.4904	1.3013	1.1335	-8.14	7.37	14.5%	-12.9%
195	1.4648	1.2786	1.1132	-8.18	7.40	14.6%	-12.9%
196	1.4397	1.2562	1.0934	-8.21	7.43	14.6%	-13.0%
197	1.4151	1.2343	1.0739	-8.24	7.45	14.6%	-13.0%
198	1.3909	1.2128	1.0548	-8.28	7.48	14.7%	-13.0%
199	1.3671	1.1916	1.0361	-8.31	7.50	14.7%	-13.1%
200	1.3438	1.1709	1.0177	-8.34	7.52	14.8%	-13.1%