

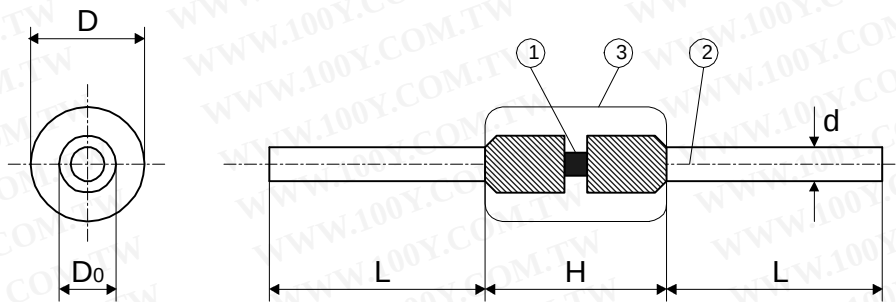
Specification of NTC Thermistor for Temperature Measurement and Control

PART NO. DHT0A103J3472S

CUSTOMER P/N. _____

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

1. Dimensions



(Unit : mm)

ITEM	D	H	d	L	D ₀
MAX.	2	4	0.52	29	0.9
MIN.	---	---	0.48	27	0.7

(1) Electrical Chip

(2) $\Phi 0.5$ Tin-plated CP Wire

(3) Glass Encapsulated

2. Electrical characteristics

2-1

	Parameter	Symbol	Test Conditions	Min.	Nor.	Max.	Unit
a.	Resistance At 25°C	R ₂₅	Ta=25°C±0.05°C P _T ≤0.04mW	9.500	10	10.500	KOHM
b.	Resistance At 85°C	R ₈₅	Ta=85°C±0.05°C P _T ≤0.04mW	-----	1.4231	-----	KOHM
c.	R ₂₅ / R ₈₅	K	-----	-----	7.0269	-----	-----
d.	B Constant	B	(1779.707 Ln K)	3401	3470	3539	K
e.	Thermal Dissipation Constant	δ	Ta=25°C±0.5°C	2.0	-----	-----	mW/°C
f.	Thermal Time Constant	τ	Ta=25°C±0.5°C	-----	-----	10	Sec
g.	Insulation Test	-----	DC 100 V 1min	50	-----	-----	MOHM
h.	Hi-Pot Test	-----	700V AC 1 min 1mA	No Damage Observed			

2-2

	Parameter	Specification	Unit
a.	Operation Temperature Range	-40 ----- +200	°C
b.	Max. Permissible Current	0.71	mA
c.	Max. Operating Current	0.15	mA

3. Mechanical Characteristics

3-1 Leads Terminal Tensile Strength

Conditions	Test Result	
Fasten body with a Load Applied to each lead 0.5 kg for 10 sec.	No break out and damage	OK

3-2 Leads Terminal Bend Strength

Test Conditions	Variability	Test Result	
Fixed body and hang 0.25 kg on one terminal bend 90° then back again in opposite .	Within $\pm 2\%$	No break out and damage	OK

4. Reliability Test

4-1 Solder Test

4-1-1 Solderability

Conditions	Test Result	
235 $\pm$ 5°C. 2 $\pm$ 0.5 Second	The surface covered at least 95%	OK

4-1-2 Resistance To Soldering Heat Test

Test Conditions	Variability	Test Result	
260 $\pm$ 5°C. 5 $\pm$ 1 Second	Within $\pm 2\%$	No break out and damage	OK

4-2 Temp.Cycle Test

Test Conditions	Variability	Test Result	
-40 $\pm$ 3°C X 30min $\rightarrow$ +25 °C X 5min X 5 Cycles +150 $\pm$ 2°C X 30min $\rightarrow$ +25 °C X 5min	Within $\pm 5\%$	No break out and damage	OK

4-3 Climatic Sequence Test

Test Conditions	Variability	Test Result	
+125±2 °C X 2HRS → +40 °C95%RH X 24HRS -40±3°C X 2HRS→ +40 °C95%RH X 96HRS	Within ± 5 %	No break out and damage	OK

4-4 Humidity Test

Test Conditions	Variability	Test Result	
40±2°C95%RH X 1000HRS	Within ± 5 %	No break out and damage	OK

4-5 High Temperature Store Test

Test Conditions	Variability	Test Result	
125±2°C. X 1000HRS	Within ± 5 %	No break out and damage	OK

4-6 Room Temperature endurance Test

Test Conditions	Variability	Test Result	
0.71 mAmp. (15~35)±5°C. X 1000HRS	Within ±5 %	No break out and damage	OK

5. Intermation Approvals

UL:File NO. E138827

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