

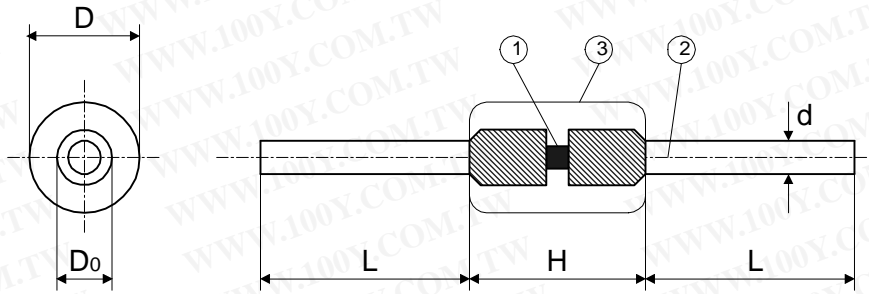
Specification of NTC Thermistor for Temperature Measurement and Control

PART NO. DHT0A503J3952S

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	D0
MAX.	2	4	0.52	29	0.9
MIN.	---	---	0.48	27	0.7

- (1) Electrical Chip
- (2) 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	R_{25}	$T_a=25 \pm 0.05$ $P_T \ 0.04mW$	47.50	50	52.50	KOHM
b.	Resistance At 85	R_{85}	$T_a=85 \pm 0.05$ $P_T \ 0.04mW$	-----	5.4334	-----	KOHM
c.	R_{25} / R_{85}	K	-----	-----	9.2023	-----	-----
d.	B Constant	B	(1779.707 Ln K)	3871	3950	4029	K
e.	Thermal Dissipation Constant		$T_a=25 \pm 0.5$	2.0	-----	-----	mW/
f.	Thermal Time Constant		$T_a=25 \pm 0.5$	-----	-----	10	Sec
g.	Hi-Pot Test	-----	700V AC 1 min	-----	-----	1	mA
h.	Insulation test	-----	DC 500 V	50	-----	-----	MOHM

2-2

	Parameter	Specification	Unit
a.	Operation Temperature Range	-40 ----- +200	
b.	Max. Permissible Current	0.30	mA
c.	Max. Operating Current	0.07	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 ± 2 %	No break out and damage	OK

4. Reliability Test

4-1 Solder Test

4-1-1 Solderability

Conditions	Test Result	
235 \pm 5 . 3 \pm 1 Second	The surface covered at least 95%	OK

4-1-2 Resistance To Soldering Heat Test

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

4-2 Temp.Cycle Test

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

4-3 Climatic Sequence Test

Test Conditions	Variability	Test Result	
+125±2 X 2HRS +40 95%RH X 24HRS -40±3 X 2HRS +40 95%RH X 96HRS	Within ± 5 %	No break out and damage	OK

4-4 Humidity Test

Test Conditions	Variability	Test Result	
40±2 95%RH X 1000HRS	Within ± 5 %	No break out and damage	OK

4-5 High Temperature Store Test

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

4-6 Room Temperature endurance test

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

5. Internation Approvals

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