

A. Material List

NO.	ITEM	DESCRIPTION
1	TERMINAL	C50301BL-2
2	COATING RESIN	BLACK EPOXY
3	WIRE	Φ0.5mm Tin-plated Copper wire

B. Electrical Characteristic

ITEM	VALUE
R25	100K Ω±5%
B25/85	4529K+/-3%

Customer	ASYS
Customer P/N	
Thinking P/N	NTSA0104JZ084

Rev.	Subjects of Change	Scale:		Tol:	±mm	Unit:	mm	Drawing NO.	SA0308005
		Approved by		Checked by		Designed by		Date	2007.05.08
		FM,CH		JUN,WANG		YU LIANG YANG		<i>THINKING ELECTRONIC INDUSTRIAL CO.,LTD</i>	



THINKING ELECTRONIC INDUSTRIAL CO.,LTD

SUBJECT:CERTIFICATION OF MATERIALS

CUSTOMER:ASYS

THINKING P/N:NTSA0104JZ084

NO	PART NAME	PART P/N	Q'TY	FLAMMABILITY SOLID BURNING CLASS	UL FILE NO
1	TERMINAL	C50301BL-2	1	BRASS	
2	COATING RESIN	BLACK EPOXY			
3	LEAD WIRE	Φ0.5mm Tin-plated Copper wire	2		
REMARK					

Approved by: FM,CH

Checked by: JUN,WANG

Designed by: YU LIANG YANG

Specification of NTC Thermistor for Temperature Measurement and Control

PART NO . NTSA0104JZ084

CUSTOMER P/N . _____

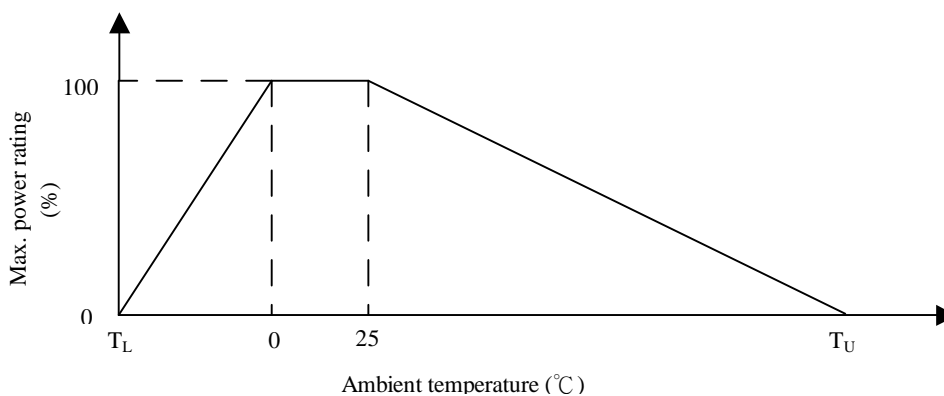
1. Electrical characteristics

	Parameter	Symbol	Test Conditions	Min.	Nor.	Max.	Unit.
a.	Resistance At 25°C	R ₂₅	T _a =25°C±0.05°C P _T ≤0.1mW	95.00	100	105.00	KΩ
b.	Resistance At85°C	R ₈₅	T _a =85°C±0.05°C P _T ≤0.1mW	-----	7.850	-----	KΩ
c.	R ₂₅ /R ₈₅	K	-----	-----	12.741	-----	
d	B Constant	B _{25/85}	(1779.707* LnK)	4393	4529	4665	K
e.	Thermal Dissipation Constant	δ	T _a =25°C±0.5°C	5	-----	-----	mW/°C
f.	Thermal Time Constant	τ	T _a =25°C±0.5°C	-----	11		Sec
g.	Hi-Pot Test	-----	1000V AC 1 sec	-----	-----	10	mA

2.Maximun Ratings

	Parameter	Specification	Unit
a.	Operation Temperature Range	-20 ----- +125	°C
b.	Maximum Power Rating (At 25°C)	150	mW

Maximum power rating (Pmax)



Note: T_L = Minimum Temp. of Operating Temp. Range (°C)

T_U = Maximum Temp. of Operating Temp. Range (°C)

Specification of NTC Thermistor for Temperature Measurement and Control

3. Mechanical Characteristics

3-1. Leads Terminal Tensile Strength

Conditions	Test Result	
Fasten body with a Load Applied to each lead 1.0 kg for 10 sec.	No physical damage and electrical characteristic normal	OK

4. Reliability Test

Item	Test Conditions	Variable
Temp. cycle test	-20 °C X 30min → +25 °C X 5min X 5Cycles +125 °C X 30min → +25 °C X 5min	Within ± 5 %
Humidity test	40 °C 95 % RH X 1000 HRS	Within ± 5 %

