



Approval Sheet

Manufacturer:

Customer:

Approved By:	Checked By:	Prepared By :

Approved By:	Examined By:	Tested By :

Company Stamp	
----------------------	--

Company Stamp	
----------------------	--

Approval No. : A120-191

Product : NTC THERMISTOR

Part No : ESDT103J3435H

Specifications : R25 10,000 Ω $\pm$ 5 %

B25/85 3435 K $\pm$ 3 %

Date : _____

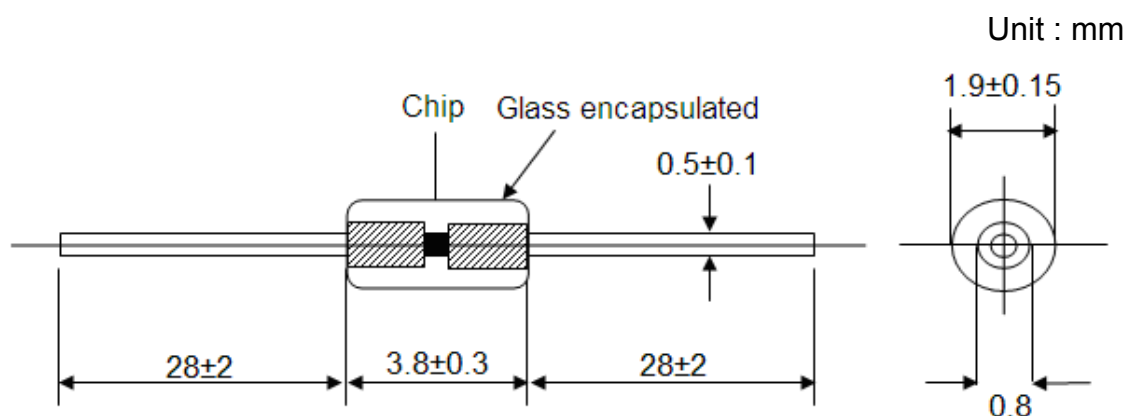
FLYiNG 汎翊國際有限公司

◆ **PART NO. :** ESDT103J3435H

◆ **Features**

- Low cost
- High stability
- Glass sealed body for high reliability

◆ **SHAPE & DIMENSIONS**



No.	Part Name	Materials	Remark
1	NTC Thermistor	Metal Oxide	---
2	Coating	Glass	---
3	Lead Wire	CP Wire	Ø 0.5 mm

◆ **ELECTRICAL CHARACTERISTICS**

Style	Symbol	Condition	Specification
Resistance at Ta	R	Ta = 25 °C	10 K Ω ± 5 %
B Constant	B	25 °C / 85 °C	3435 K ± 3 %
Thermal Time Constant	C	Ta = 25 °C	20 sec
Thermal Dissipation Constant	T	Ta = 25 °C	2 mW/°C
Maximum Power Rating*	P _{max}	Ta = 25 °C → 250 °C	450 mW
Operating Temp. Range	--	--	- 40 °C ~ 250 °C

*Maximum Power Rating = Thermal Dissipation Constant × (Max. Operating Temp.(250°C) - 25°C)

**◆ RELIABILITY TEST**

Performance	Test Method	$\Delta R_{25} / R_{25}$
Humidity	40°C $\pm$ 2 , 95 % RH x 1000 hours	Max. $\pm$ 3 %
Thermal shock	(- 40°C x 30min $\rightarrow$ 200°C x 30min) x 10 times	Max. $\pm$ 3 %
High temperature storage	250 $\pm$ 5 °C x 1000 hours	Max. $\pm$ 3 %
Low temperature storage	- 40 $\pm$ 5 °C x 1000 hours	Max. $\pm$ 3 %
Insulation	Insulation resistance over by DC 500 V	Over 100 M Ω

◆ STORAGE CONDITIONS

1. Storage Temperature : - 10 °C ~ + 40 °C .
2. Relative humidity : 30 ~ 75 % RH.
3. Thermistor must be kept away from sunshine and stored in a non-corrosive atmosphere.
4. Period of Storage : 1 year.

◆ ORDERING INFORMATION

ES DT 103 J 3435 H
① ② ③ ④ ⑤ ⑥

1. E WAY Sensor.
2. Diode Type Thermistor.
3. Resistance at 25 °C : 103 = $10 \times 10^3 = 10,000 (\Omega)$.
4. Tolerance of R : F: $\pm 1\%$; G: $\pm 2\%$; H: $\pm 3\%$; J: $\pm 5\%$; K: $\pm 10\%$.
5. B value (K).
6. Tolerance of B : F: $\pm 1\%$; G: $\pm 2\%$; H: $\pm 3\%$; J: $\pm 5\%$.