

Specification of Radial NTC Thermistor

PART NO. : ENRHT3103F3435FLB32

1. Feature

- (1) Low cost, high stability, excellent endurance against thermal shock
- (2) Radial type : S - straight wire, L - formed wire
- (3) Temperature sensing and control, compensation, measurement
- (4) Dimension can be discussed

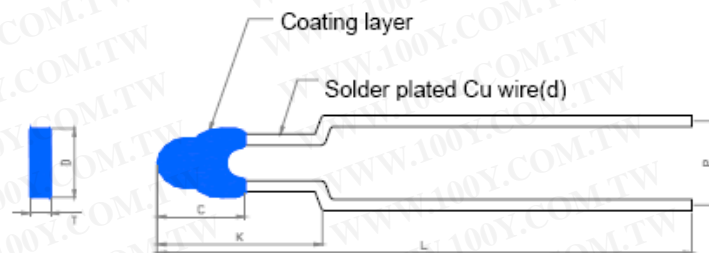
2. Applications

- On-board temperature sensor, Air conditioner, Refrigerator, Heater

3. Specifications

Part No	R ₂₅	R Tol.	B Value	B Tol.	Operating Temperature
ENRHT3103F3435FLB32	10KΩ	±1 %	3435	±1 %	-40°C ~ 125°C

4. DIMENSIONS



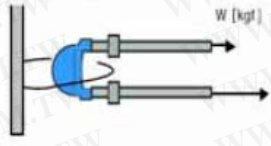
unit: mm

Type	C	D	K	L	P	T	d
L	4.0 max	4.0 max	6.5 max	32	2.5	3.0 max	0.45

勝特力材料 886-3-5753170
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5. Performance Specification

No.	Item	Requirement	Test condition
1	Operating Temp. Range	-40°C ~ +125°C	
2	Resistance	Within Tolerance of Resistance	Measured at 25°C in Silicon oil Bath
3	B Value	Within Tolerance of B Value	$B_{25/85}[K]=\ln(R_{25}/R_{85})/(1/T_{25}-1/T_{85})$
4	Max Rated Wattage(mW)	1. Lead wire type: 50~200	Measured in the still air
5	Heat Dissipation Constant [mW/°C]	1. Lead wire type : 0.5 ~ 2.0	Measured in the still air
6	Solderability	1. No Serious mechanical damage 2. $\Delta R \leq \pm 3\%$ (Ref. To initial value) 3. $\Delta B \leq \pm 3\%$ (Ref. To initial value)	1. 400°C, 5sec [electrical soldering iron]
7	Humidity Test	1. No Serious mechanical damage 2. $\Delta R \leq \pm 3\%$ (Ref. To initial value) 3. $\Delta B \leq \pm 3\%$ (Ref. To initial value)	1. Test Temp. & Relative Humidity & Time : 85±5°C, 85±5% RH, 500± 24Hrs 2. Let sit at room-Temp., for 24Hrs then Measure
8	Thermal Shock	1. No Serious mechanical damage 2. $\Delta R \leq \pm 3\%$ (Ref. To initial value) 3. $\Delta B \leq \pm 3\%$ (Ref. To initial value)	1. Temp. : -40±5°C, +85±5°C 2. Soak Time : 30min ± 3min The cycles is repeated 100 times
9	High Temp. Storage	1. No Serious mechanical damage 2. $\Delta R \leq \pm 3\%$ (Ref. To initial value) 3. $\Delta B \leq \pm 3\%$ (Ref. To initial value)	1. Temp. : +85±5°C 2. Time : 1000Hrs ± 12Hrs Let sit at R.T, for 24Hrs then Measure
10	Low Temp. Storage	1. No Serious mechanical damage 2. $\Delta R \leq \pm 3\%$ (Ref. To initial value) 3. $\Delta B \leq \pm 3\%$ (Ref. To initial value)	1. Temp. : -40±5°C 2. Time : 1000Hrs ± 12Hrs Let sit at R.T, for 24Hrs then Measure
11	Tensile Strength	1. No Serious mechanical damage 2. 1.0kgf apply for 10sec	

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5. ORDERING INFORMATION

ENR HT3 103 F 3435 F L B 32
(1) (2) (3) (4) (5) (6) (7) (8) (9)

(1) Radial NTC

(2) High-precision Disc Thermistor (3 ϕ)

(3) Resistance Value : 103 = $10 \times 10^3 = 10 \text{ K } \Omega$

(4) R Tolerance : F: $\pm 1\%$; G: $\pm 2\%$; H: $\pm 3\%$; J: $\pm 5\%$; K: $\pm 10\%$

(5) B Value : ($^{\circ}\text{K}$)

(6) B Tolerance : F: $\pm 1\%$; G: $\pm 2\%$; H: $\pm 3\%$; J: $\pm 5\%$

(7) Wire type : S (Straight) , L (Forming)

(8) Package :

B (Bulk), T (Taping)

(9) Length: (Unit : mm)

32 = 32 mm

40 = 40 mm

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