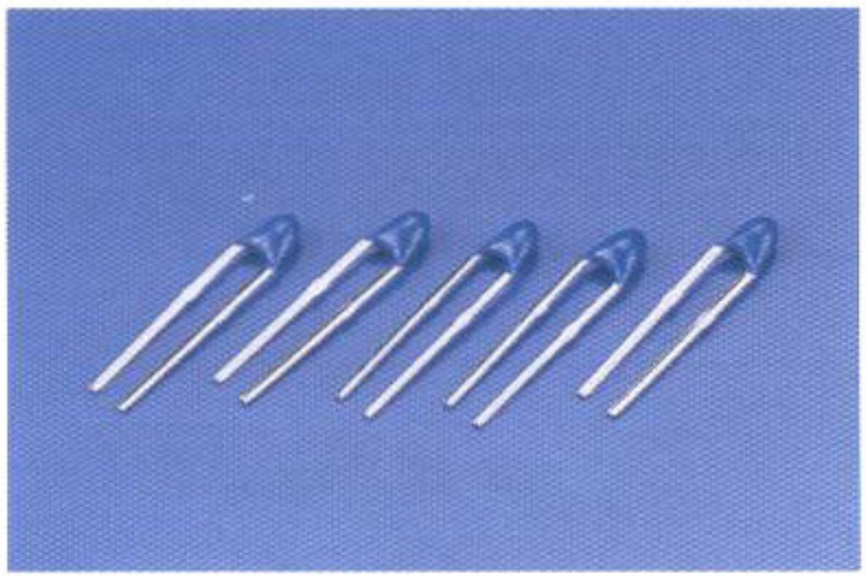
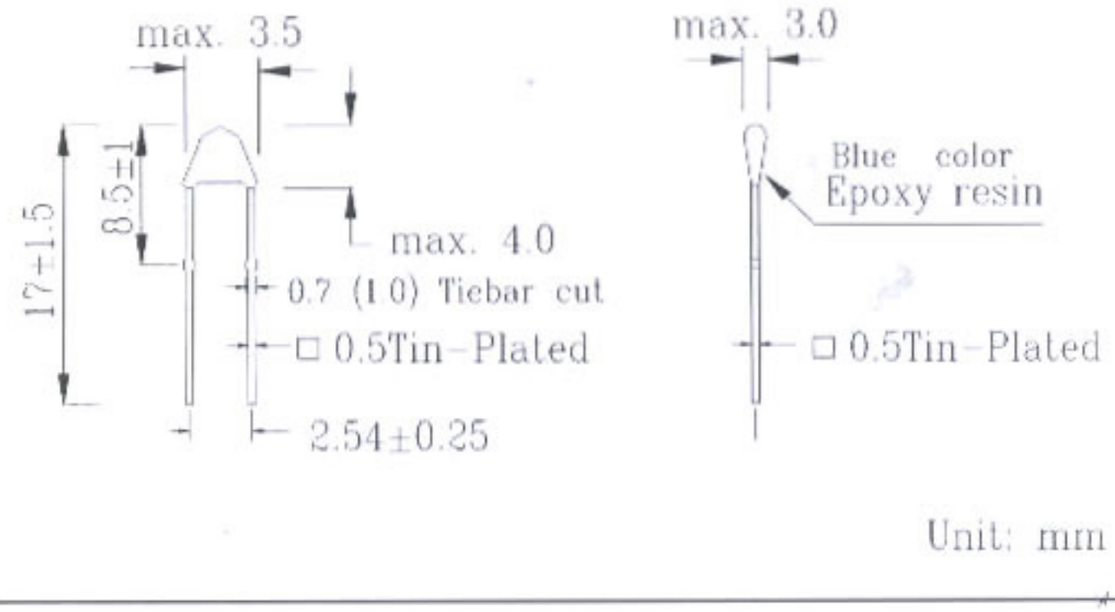
High-Precision AT Type NTC Thermistors

HAT Series





FEATURES:

- Low cost, high stability
- Excellent thermal cycle endurance
- No adjust between the control circuit and the sensor

The HAT series thermistor is a high-precision thermal sensing device. They have small B-value tolerance and resistance. They insure temperature precision of ±0.3 °C and can be employed for very accurate temperature control or compensation. They are also useful for insert to PCB in the constant length.

SPECIFICATIONS

Temperature ranges -50°C to 110°C

R_{25} :

Rated Zero-power resistance value at 25 °C

1,000 ohms
2,000 ohms
5,000 ohms
10,000 ohms
20,000 ohms
47,000 ohms

Tolerances ±1%, ±3%, ±5%

B value: 3100K - 4665K

Determined by rated zero-power resistance at 25 °C and 85 °C

R/T curve HAT series thermistors are available in all R/T curve materials. Detailed curve information on pages 23-25.

Tolerances ±1%

Dissipation constant 2 mW/ °C

Thermal time constant Typically 15 seconds in air

Maximum power rating 10 - 15 mW (at 25 °C)

Ordering Map

HAT 1 0 3 □□□□ □

① Type	② Resistance value at 25°C	③ B value	④ Resistance tolerance
High-precision AT type thermistor	$10 \times 10^3\ \Omega$	25°C/85°C	1: ±1% 3: ±3% 5: ±5%