1) Jun. 6 '07 MO

SPECIFICATION THERMISTOR

150-103-78011

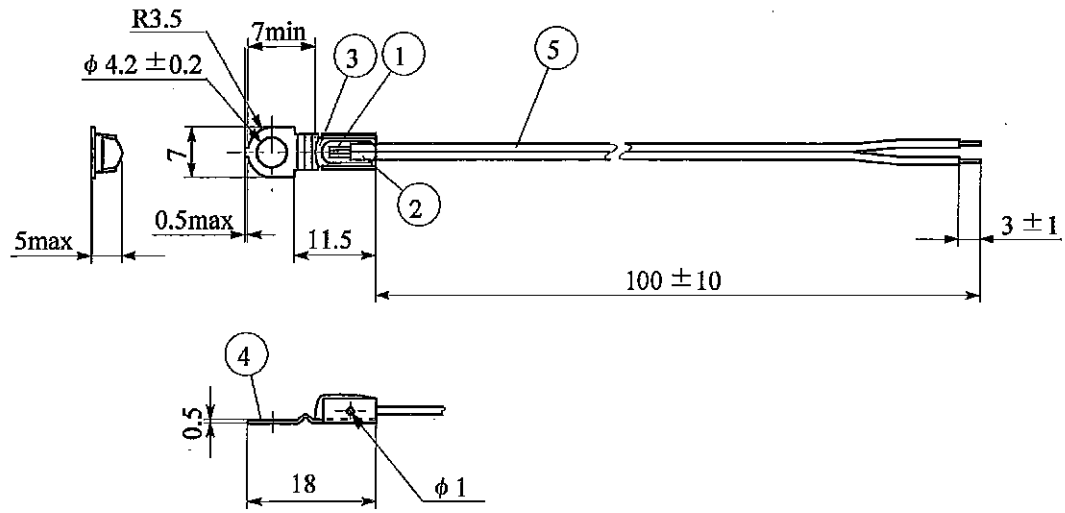
DACHS

1. Scope

This specification applies to a thermistor 150-103-78011.

2. Drawing

Sym.	Part name	Specification & materials	Drawing No.
①	Thermistor	Chip type	
②	Coating resin	Epoxy resin	
③	Adhesive	Heat conductibility epoxy resin	
④	Metal fitting	Pre-tinned brass, Sn plated	TB-6000
⑤	Lead wire	105 ℃ heat-resistant PVC insulated zip cord □ 0.08 (7/0.12) black, ϕ 1.06 × 2	TW-13751
	Solder	Sn-Cu (Pb-free)	



Approved:	A. Tanaka
Checked:	M. Ebina
Designed:	N. Miura

OHIZUMI MFG.CO.,LTD.

3. Electrical characteristics

3-1. Zero power resistance at 25 ℃: R25 10 k Ω (tolerance ± 1 %)

3-2. B-value: B25/85 3 435 K (tolerance ± 2 %)

3-3. Thermal time constant (τ 63.2 %): 30 s Max. (in still air)

3-4. Thermal dissipation constant: 3 mW/℃ (in still air)

3-5. Insulation resistance: 100 M Ω Min. with 500 V DC Megger (between metal fitting and lead wire)

3-6. Dielectric strength

Shall not be trouble for 1 minute when applied 1 500 V AC.

3-7. Operating temperature range: -20 ℃ to 100 ℃

3-8. Storage temperature range: -30 ℃ to 100 ℃

4. Mechanical characteristics

4-1. Tensile strength test

When 9.8 N is applied gradually for 1 minute to the lead wire by fixing the metal fitting, abnormality shall not be allowed on appearance nor property.

4-2. Drop test

When natural drop is performed three times onto the oak-board thickness 30 mm from height at 1 m, abnormality shall not be allowed on appearance nor property.

5. Reliability test

5-1. Heat cycle test

Perform 100 cycles with -10 ℃ (in liquid) 10 min ⇄ room temperature (in air) 5 min ⇄ 70 ℃ (in liquid) 10 min as one cycle.

5-2. High temperature storage test

Leave the specimen in atmosphere of 100 ℃ for 1 000 hours.

5-3. High humidity storage test

Leave the specimen in atmosphere of 65 ℃ and 90 %RH to 95 %RH for 1 000 hours.

5-4. Low temperature storage test

Leave the specimen in atmosphere of -20 ℃ for 1 000 hours.

After the test in above items 5-1 to 5-4, the rate of variation for resistance R25 and B-value shall be within ± 3 % to the initial value, appearance shall not change, and shall satisfy items 3-5, 3-6.