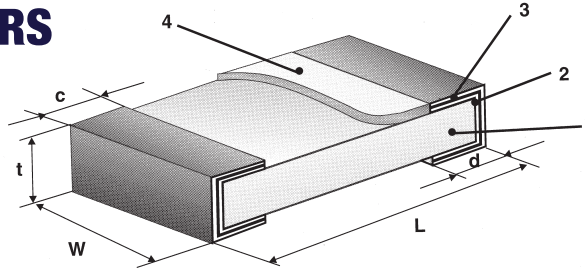
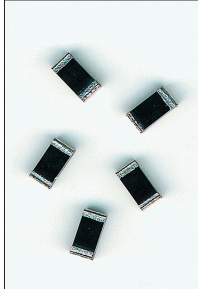


THERMAL SENSORS

PTC THERMISTOR

PT72



STRUCTURE

- 1 Thermistor (BaTiO₃)
- 2 Inner Electrode (Ni)
- 3 Solder plating
- 4 Protective coat

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
PT72	Black (CT: 70° C)	None
	Brown (CT: 80° C)	
	Blue (CT: 100° C)	

Products with Pb-free terminations meet EU-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

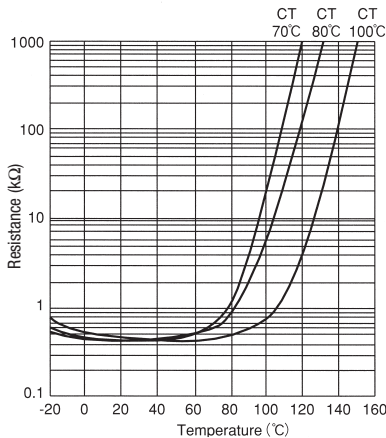
PT72	2B	T	70C	TE	471
PRODUCT CODE	STYLE	TERMINATION SURFACE MATERIAL	CURIE TEMPERATURE	TAPING* TE, BK	NOMINAL RESISTANCE
	2A: 0805 2B: 1206	T: Sn (L: Sn/Pb)	70C: 70°C 80C: 80°C 100C: 100°C	*Please see "PACKAGING"	3 digits

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS

FEATURES

- Surface mount PTC thermistor
- Miniaturized, light weight and small mounting area
- Quick thermal response
- Curie temperatures: 70°C, 80°C, 100°C are selectable
- Ideal for use as overheat protection for power transistors and power-ICs, in inverter circuits for LCD back lights and in air conditioners
- Operating temperature range: - 55° C ... + 125° C
- Suitable for reflow soldering

R-T CHARACTERISTICS



DIMENSIONS (mm)

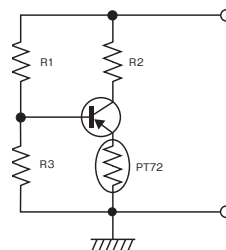
SIZE	TYPE	L ± 0.2	W ± 0.2	c / d	t ± 0.2
0805	PT72 2A	2.0	1.25	0.4 ± 0.2	1.0
1206	PT72 2B	3.2	1.6	0.5 ± 0.3	1.0

PRECAUTIONS FOR USE

- Utilization under unusual environment (deoxidation-gas and corrosion-gas and others) is strictly prohibited because of a possible deterioration of the performance.
- Twisting boards may cause direct damage to the parts. The boards must be handled in minimum stress.
- Only reflow soldering is applicable.
- Do not touch the parts by soldering iron to avoid chipping problem.
- The product side is not insulation construction. Avoid the pattern layout designing under/near the product.
- If you use the product exceeding the max. working voltage, it may be a cause of the short mode failure

CIRCUIT EXAMPLE

Heating protection for transistor circuits



RATING

SIZE	TYPE	CURIE TEMPERATURE	MAX. WORKING VOLTAGE	TEMP. AT R ₂₅ x 7	RESISTANCE AT 25° C	RESISTANCE TOLERANCE
0805	PT72 2A	70° C	16 V	85° C ± 10° C	470 Ω	± 50%
		80° C		95° C ± 10° C		
		100° C		115° C ± 10° C		
1206	PT72 2B	70° C		85° C ± 10° C	120 Ω, 470 Ω, 1 kΩ	
		80° C		95° C ± 10° C	50 Ω, 470 Ω, 1 kΩ	
		100° C		115° C ± 10° C	470 Ω, 1 kΩ	

Contact our sales representatives before you use our products for applications including automobiles, medical equipment and aerospace equipment. Malfunction or failure of the products in such applications may cause loss of human life or serious damage.

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order or use.

THERMISTORS