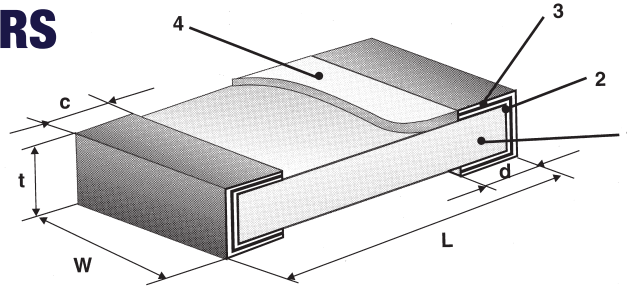
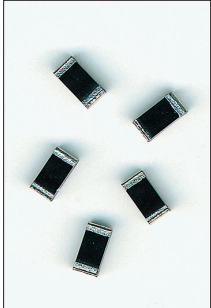


## THERMAL SENSORS PTC THERMISTOR PT72



### STRUCTURE

- 1 Thermistor (BaTiO<sub>3</sub>)
- 2 Inner Electrode (Ni)
- 3 Solder plating
- 4 Protective coat



### IDENTIFICATION

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

Products with Pb-free terminations meet EU-RoHS requirements

### TYPE DESIGNATION (HOW TO ORDER)

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

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

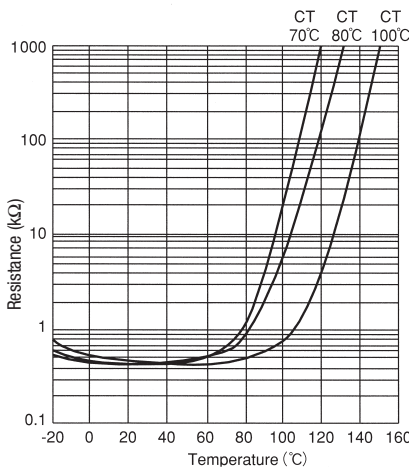
### FEATURES

- 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

### 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

### R-T CHARACTERISTICS

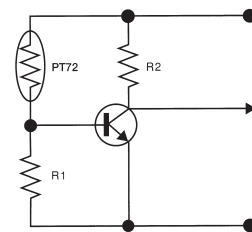


### PRECAUTIONS FOR USE

- 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.

### CIRCUIT EXAMPLE

Over-current protection for transistor circuits



### RATING

SIZE	TYPE	CURIE TEMPERATURE	MAX. WORKING VOLTAGE	TEMP. AT R <sub>25</sub> 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	

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