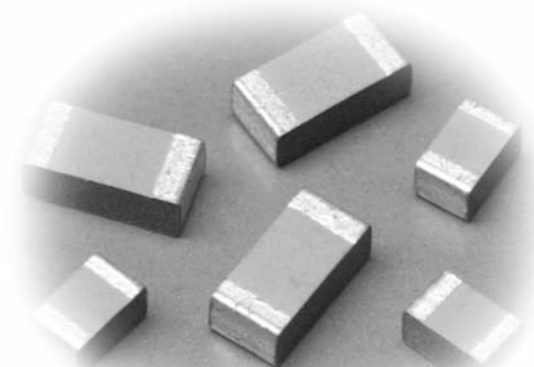
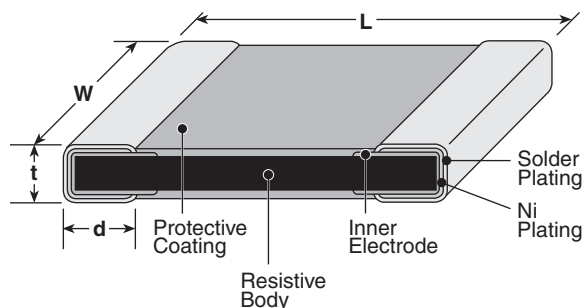


## features

- Reduced size, light weight and small mounting area
- Quick thermal response
- Curie temperature: 70°C, 80°C, 100°C
- Marking: Black coating for 70°C Curie temperature  
Brown coating for 80°C Curie temperature  
Blue coating for 100°C Curie temperature
- Products with lead-free terminations meet EU RoHS and China RoHS requirements



## dimensions and construction



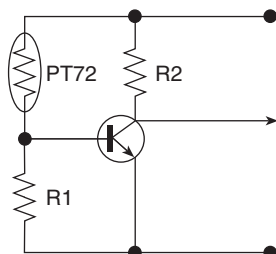
| Type<br>(Inch Size Code) | Dimensions inches (mm) |                         |                        |                        |
|--------------------------|------------------------|-------------------------|------------------------|------------------------|
|                          | L                      | W                       | t                      | d                      |
| <b>2A</b><br>(0805)      | .079±.008<br>(2.0±0.2) | .049±.008<br>(1.25±0.2) | .039±.008<br>(1.0±0.2) | .016±.008<br>(0.4±0.2) |
| <b>2B</b><br>(1206)      | .126±.008<br>(3.2±0.2) | .063±.008<br>(1.6±0.2)  |                        | .02±.012<br>(0.5±0.3)  |

## ordering information

|            |      |                      |                                                                            |                       |                                                |                                      |
|------------|------|----------------------|----------------------------------------------------------------------------|-----------------------|------------------------------------------------|--------------------------------------|
| New Part # | PT72 | 2A                   | T                                                                          | 70C                   | TE                                             | 471                                  |
|            | Type | Size Code            | Termination Material                                                       | Curie Temperature     | Packaging                                      | Nominal Resistance                   |
|            |      | 2A: 0805<br>2B: 1206 | T: Sn<br>(Other termination styles available, contact factory for options) | 70°C<br>80°C<br>100°C | TE: 7" embossed plastic<br>(3,000 pieces/reel) | 2 significant figures + 1 multiplier |

For further information on packaging, please refer to Appendix A.

## typical circuit schematic

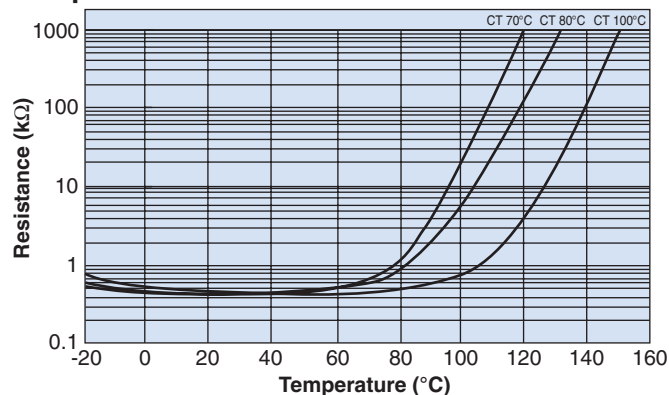


## applications and ratings

| Part Designation | Curie Temperature | Resistance @ 25°C | Resistance Tolerance | Temperature @ R <sub>25</sub> x 7 | Absolute Maximum Working Voltage | Operating Temperature Range |
|------------------|-------------------|-------------------|----------------------|-----------------------------------|----------------------------------|-----------------------------|
| PT722A           | 70°C              | 470Ω              | ±50%                 | 85°C ± 10°C                       | 16V                              | -55°C to +125°C             |
|                  | 80°C              |                   |                      | 95°C ± 10°C                       |                                  |                             |
|                  | 100°C             |                   |                      | 115°C ± 10°C                      |                                  |                             |
| PT722B           | 70°C              | 120Ω, 470Ω, 1kΩ   |                      | 85°C ± 10°C                       |                                  |                             |
|                  | 80°C              | 50Ω, 470Ω, 1kΩ    |                      | 95°C ± 10°C                       |                                  |                             |
|                  | 100°C             | 470Ω, 1kΩ         |                      | 115°C ± 10°C                      |                                  |                             |

## environmental applications

### Temperature Characteristics



### Performance Characteristics

| Parameter                   | Requirement Δ R |         | Test Method                                       |
|-----------------------------|-----------------|---------|---------------------------------------------------|
|                             | Limit           | Typical |                                                   |
| Resistance to Solder Heat   | ±20.0%          | ±4.0%   | 260°C ± 5°C, 10 seconds ± 1 second                |
| Rapid Change of Temperature | ±20.0%          | ±4.0%   | -55°C (30 minutes), +125°C (30 minutes), 5 cycles |
| Resistance                  | ±50.0%          | ±35.0%  | 25°C                                              |
| Humidity Resistance         | ±20.0%          | ±4.0%   | 40°C ± 2°C, 90 - 95% RH, 1000 hours               |
| Load Life                   | ±20.0%          | ±4.0%   | 25°C ± 2°C, 1000 hours, rated voltage             |