

PT Series Standard Precision Interchangeable Thermistors



Description

Littelfuse precision interchangeable thermistors are low cost, highly accurate, stable devices designed specifically for temperature sensing and control applications. They are particularly suited for uses where their precision interchangeability eliminates the necessity for costly individual circuit calibration.

Options

- Non-standard resistance values and tolerances
- Special lead materials and lengths
- Special encapsulants or probe housings

Dimensions



Dimensions shown in inches.

| A | B | C |
|-----------------|---------------|-------------|
| 30AWG 0.010" | 0.095" Max | 1.5" Min |

Features

- High accuracy
- Fast thermal response
- Low cost
- Small size
- Epoxy encapsulated
- High stability
- Long life
- R/T Curve-matched

Part Numbering System



Note: Not all combinations of Part Number codes are available. Contact Littelfuse for details.

PT Series Standard Precision Interchangeable Thermistors

Specifications

| Part Number | Resistance Ohms @25°C | Accuracy (±°C) 0-70°C | R-T Curve | Temperature Coefficient (% / °C) @ 25°C | Beta (K) 0-50°C | Max. Power Rating (mW) | Dissipation Constant, Nominal (mW/°C) | Thermal Time Constant, Max. - Still Air (seconds) | Thermal Time Constant, Max. - Well Stirred Oil (seconds) | Temperature Rating (°C) | Storage & Operation Temp for Best L/T Stability (°C) |
|-------------|-----------------------|-----------------------|-----------|---|-----------------|------------------------|---------------------------------------|---|--|-------------------------|--|
| PT102J2 | 1000 | ± 0.2°C | J | -4.4 | 3892 | 30 | 1 | 10 | 1 | -80 to +150 | -80 to +120 |
| PT222J2 | 2252 | ± 0.2°C | J | -4.4 | 3892 | 30 | 1 | 10 | 1 | -80 to +150 | -80 to +120 |
| PT302J2 | 3000 | ± 0.2°C | J | -4.4 | 3892 | 30 | 1 | 10 | 1 | -80 to +150 | -80 to +120 |
| PT502J2 | 5000 | ± 0.2°C | J | -4.4 | 3892 | 30 | 1 | 10 | 1 | -80 to +150 | -80 to +120 |
| PT602J2 | 6000 | ± 0.2°C | J | -4.4 | 3892 | 30 | 1 | 10 | 1 | -80 to +150 | -80 to +120 |
| PT103G2 | 10000 | ± 0.2°C | G | -4.04 | 3575 | 30 | 1 | 10 | 1 | -80 to +150 | -80 to +120 |
| PT103J2 | 10000 | ± 0.2°C | J | -4.4 | 3892 | 30 | 1 | 10 | 1 | -80 to +150 | -80 to +120 |
| PT203J2 | 20000 | ± 0.2°C | J | -4.4 | 3892 | 30 | 1 | 10 | 1 | -80 to +150 | -80 to +120 |
| PT303J2 | 30000 | ± 0.2°C | J | -4.4 | 3892 | 30 | 1 | 10 | 1 | -80 to +150 | -80 to +120 |
| PT503J2 | 50000 | ± 0.2°C | J | -4.4 | 3892 | 30 | 1 | 10 | 1 | -80 to +150 | -80 to +120 |
| PT503R2 | 50000 | ± 0.2°C | R | -4.68 | 4140 | 30 | 1 | 10 | 1 | -80 to +150 | -80 to +120 |
| PT104J2 | 100000 | ±0.2°C | J | -4.4 | 3892 | 30 | 1 | 10 | 1 | -80 to +150 | -80 to +120 |
| PT104R2 | 100000 | ± 0.2°C | R | -4.68 | 4140 | 30 | 1 | 10 | 1 | -80 to +150 | -80 to +120 |

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