

PS 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.

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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)
PS102J2	1000	± 0.1°C	J	-4.4	3892	30	1	10	1	-80 to +150	-80 to +75
PS222J2	2252	± 0.1°C	J	-4.4	3892	30	1	10	1	-80 to +150	-80 to +75
PS302J2	3000	± 0.1°C	J	-4.4	3892	30	1	10	1	-80 to +150	-80 to +75
PS502J2	5000	± 0.1°C	J	-4.4	3892	30	1	10	1	-80 to +150	-80 to +75
PS602J2	6000	± 0.1°C	J	-4.4	3892	30	1	10	1	-80 to +150	-80 to +75
PS103G2	10000	± 0.1°C	G	-4.04	3575	30	1	10	1	-80 to +150	-80 to +75
PS103J2	10000	± 0.1°C	J	-4.4	3892	30	1	10	1	-80 to +150	-80 to +75
PS203J2	20000	± 0.1°C	J	-4.4	3892	30	1	10	1	-80 to +150	-80 to +75
PS303J2	30000	± 0.1°C	J	-4.4	3892	30	1	10	1	-80 to +150	-80 to +75
PS503J2	50000	± 0.1°C	J	-4.4	3892	30	1	10	1	-80 to +150	-80 to +75
PS503R2	50000	± 0.1°C	R	-4.68	4140	30	1	10	1	-80 to +150	-80 to +75
PS104J2	100000	± 0.1°C	J	-4.4	3892	30	1	10	1	-80 to +150	-80 to +75
PS104R2	100000	± 0.1°C	R	-4.68	4140	30	1	10	1	-80 to +150	-80 to +75

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