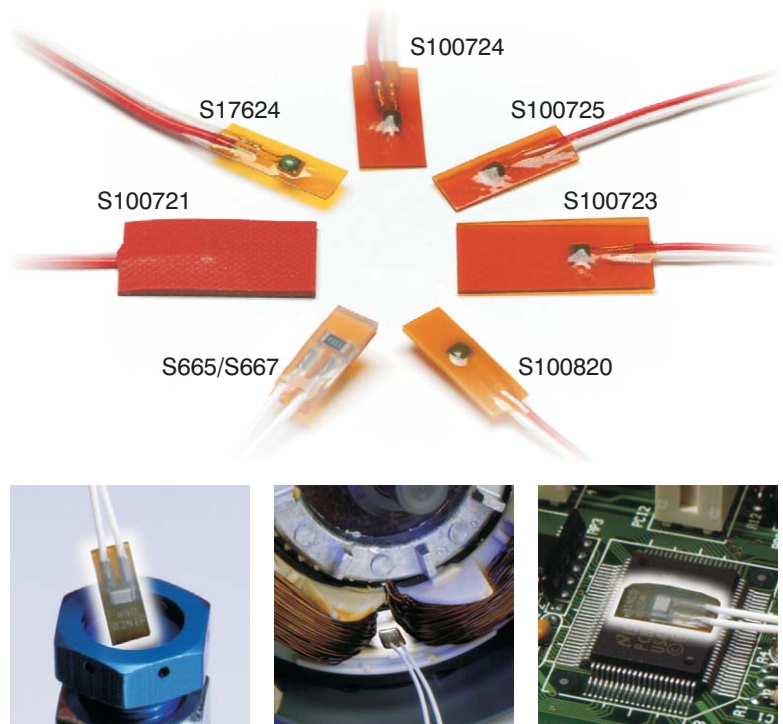


Thermal-Tab™ Resistance Temperature Detectors

The affordable, go-anywhere RTD's

- ◆ Flat, low profile sensors mount on surfaces or in cavities
- ◆ Platinum (100, 1000, or 10,000 Ω) or Nickel (100 or 1000 Ω) elements to IEC 751
- ◆ Accurate sensing to 260°C (500°F) for selected models
- ◆ Rugged, fully insulated construction
- ◆ Available in packages as small as 5 × 12 mm (0.197 × 0.472")
- ◆ Optional self-stick adhesive backing
- ◆ Standard and stock models are available for off-the-shelf convenience, or custom design a sensor for OEM applications
- ◆ Fluid immersible models



Thermal-Tab RTD's represent a major advance in the technology of temperature sensing. They feature a highly accurate and stable Platinum or Nickel thin-film element laminated into a rugged flat package and connected via PTFE-insulated leads. The result is a sensor with unprecedented economy and ease of use.

You can attach the Thermal-Tab to surfaces with cements, epoxies, tape, clamping hardware, or optional pressure-sensitive adhesive backing. Their thin profile ensures good thermal contact and response. Or you can slide the unit into tubes or holes. There's no need to handle delicate connecting wires.

The Thermal-Tab family of sensors includes standard models that are economical in small quantities with significant discounts for OEM volumes. If one of these doesn't fit your application we can custom design a model with the exact characteristics that you need.

Minco stocks the S665 Thermal-Tab in 100 or 1000 Ω resistance values with 40" (1 m) leads. Call our Sales Department for pricing and to order prototypes. See for yourself how the Thermal-Tab can simplify your sensing application.

Other standard or custom options

- ◆ NTC or PTC thermistors
- ◆ Higher temperature ratings
- ◆ Other resistance/temperature characteristics
- ◆ Connectors for quick, reliable installation
- ◆ Flex leads to save space and weight
- ◆ Integrated heater/sensors to provide a complete thermal solution

About Minco



Minco was founded in 1956 and developed flexible temperature sensors and the first etched-foil heaters by 1960. Flex circuits followed in 1974. Minco currently has annual sales over \$60

million and 750 employees at its 250,000 square foot Minneapolis headquarters. Additional manufacturing facilities are located near Toulouse, France.

Standard Thermal-Tab™ models

Model number	Insulation material	Temperature range	Dimensions L x W x T	Leadwires	Time constant *	Features
S665	Polyimide with elastomer cover	-50 to 155°C (-58 to 311°F)	5 × 12 × 2 mm (0.2 × 0.5 × 0.08")	26 AWG	0.8 sec	Stocked for immediate shipment
S667	Silicone Rubber with elastomer cover	-50 to 155°C (-58 to 311°F)	5 × 16 × 3 mm (0.2 × 0.6 × 0.12")	24 AWG	1.3 sec	Waterproof; suitable for continuous immersion
S17624	Polyimide film	-50 to 200°C (-58 to 392°F)	5 × 15 × 2 mm (0.2 × 0.6 × 0.08")	26 AWG	1.0 sec	Platinum models in stock, narrowest width
S100721	Silicone rubber	-50 to 220°C (-58 to 428°F)	10 × 20 × 2 mm (0.4 × 0.8 × 0.08")	26 AWG	1.5 sec	High temperature rating, available with wide range of element options
S100722	High temperature epoxy glass	-50 to 180°C (-58 to 356°F)	13 × 50 × 2 mm (0.5 × 2.0 × 0.08") (Has two 3 mm diameter holes for screw mounting)	22 AWG	2.8 sec	Rigid insulation with screw holes for surface mounting, rugged design
S100723	Polyimide film	-50 to 200°C (-58 to 392°F)	10 × 20 × 2 mm (0.4 × 0.8 × 0.08")	26 AWG	0.9 sec	Larger surface area for easier handling and maximum adhesive bond
S100724	Polyimide film	-50 to 200°C (-58 to 392°F)	7 × 15 × 2.5 mm (0.3 × 0.6 × 0.10")	22 AWG	1.2 sec	Heavier leadwire for applications requiring ruggedized design
S100725	Polyimide film	-50 to 200°C (-58 to 392°F)	5 × 15 × 1.7 mm (0.2 × 0.6 × 0.07")	26 AWG	0.6 sec	Thinnest profile
S100820	Polyimide film	-50 to 260°C (-58 to 500°F)	5 × 15 × 2 mm (0.2 × 0.6 × 0.08")	26 AWG	0.4 sec	Highest temperature capability

* In water at 1 m/sec

Available elements

Element code	Description
PD	Platinum, 100 Ω±0.12% at 0°C, TCR = 0.00385 (IEC 751, Class B)
PF	Platinum, 1000 Ω±0.12% at 0°C, TCR = 0.00385 (IEC 751, Class B interchangeability)
PS**	Platinum, 10,000 Ω±0.12% at 0°C, TCR = 0.00385 (IEC 751, Class B interchangeability)
PW	Platinum, 1000 Ω±0.20% at 0°C, TCR = 0.00375
NB**	Nickel, 100 Ω±0.22% at 0°C, TCR = 0.00618 (DIN 43760, Class B)
NA**	Nickel, 120 Ω±0.50% at 0°C, TCR = 0.00672
NJ**	Nickel, 1000 Ω±0.22% at 0°C, TCR = 0.00618 (DIN 43760, Class B interchangeability)

** Not available for S665, S667, S100725, or S100820 models

How to order

S17624PD	Model number from table above
Y	Number of leads: Y = 2 leads Z = 3 leads
T	S17624 only, otherwise blank T = PTFE insulated wires K = Polyimide insulated wires
40	Lead length in inches: 40" (1000 mm) is standard 60" (1500 mm) maximum for S665/S667
A	Adhesive backing: A = No adhesive B = Pressure-sensitive adhesive
S17624PDYT40A ← Sample part number	

MINCO
ISO 9001

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