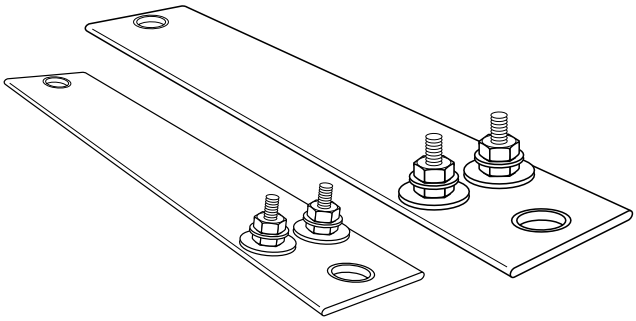
M I C A S T R I P H E A T E R S

Economical and Reliable Source for Industrial Equipment



The Watlow mica strip heater is an economical and reliable source of heat for industrial equipment. A mere 15 mils (0.4 mm) thick mica insulator on both sides of the resistance element provides complete electrical insulation and offers little resistance to efficient heat flow. Plus mica withstands high voltage spikes, resists moisture and is inert to most chemicals. UL® component recognition is available for applications to 900˚F (480˚C) sheath temperature, file number E52951.

Performance Capabilities

- Sheath temperatures to 900˚F (480˚C) on zinc-coated units
- Sheath temperatures of 1200˚F (650˚C) on stainless steel units
- Watt densities to 55 W/in^2 (8.5 W/cm^2)
- Maximum voltage 480V~(ac)

Applications

- Vulcanizing presses
- Sealing equipment
- Hot plates
- Hot stamping
- Dies and molds
- Thermoforming
- Tin melting
- Packaging equipment
- Food warming equipment

Features and Benefits

Low mass construction
- Heats up fast to provide quick response to control input

Flat resistance ribbon
- Heat is generated over a broad area; this design solution puts the heat source closer to the work

Rust-resistant, zinc-coated steel sheath
- Material gives the heater rigidity and improves emissivity

Optional stainless steel sheath
- Available for more corrosive atmosphere

Nickel-plated steel terminal posts
- Posts are securely riveted to ensure a positive,trouble-free connection to the resistance circuit

Computer-aided design engineering
- Design combination of ribbon gauge, total wattage and winding spacing maximizes heat transfer and life of the heater

Excellent dielectric strength guaranteed
- All incoming mica receives a quality control inspection

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Terminations

Types 1 through 6, as illustrated, show the placement of terminals for Watlow mica strip heaters. However, please note Type 3 terminals are not available on stock units. Placement is specified in terms of length, width and center-to-center dimensions. These dimensions are as follows:

Length:
Min: Type 1, 2, 3: 2 inches (50.8 mm)
Min: Type 4, 5, 6: 5½ inches (139.7 mm)
Max: 96[1] inches (2438.4 mm)
Tolerance: ±1/16 inch (1.6 mm)

Width:
Min: Type 1, 2, 4, 5: ⅝ inches (15.8 mm)
Min: Type 3, 6: 1½ inches (38.1 mm)
Max: 15 inches (381 mm)
Tolerance: ±1/16 inch (1.6 mm)

Thickness:
Nominal: 3/16 inch (4.7 mm)

Types 4, 5 and 6 have ⅜ inch x ¼ inch (9.5 mm x 6.3 mm) mounting slots. Letters A, B and C, called out in the illustrations, denote the following:
A = width, B = overall length, and
C = center-to-center dimensions on mounting slots.

[1] Consult the factory if you need to exceed 96 inches (2438.4 mm).

Ordering Information

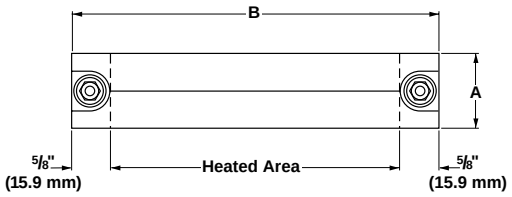
Please consult the Watlow Heaters catalog for specifics.

To order your stock mica heater, specify:
- Quantity
- Watlow code number

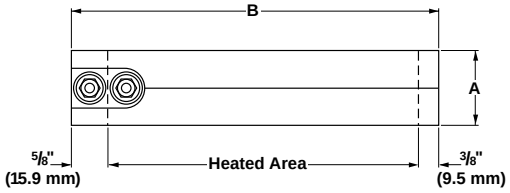
Availability

- Stock: Same day shipment
- Made-to-Order: If stock units do not meet application needs, Watlow can manufacture mica strip heaters to meet special requirements. Please consult a Watlow sales engineer or authorized distributor.

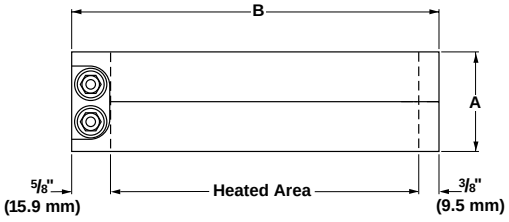
Type 1—Opposite Ends



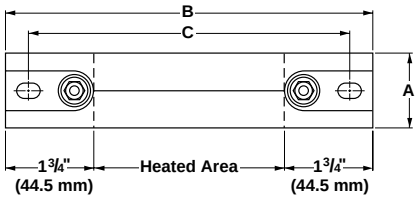
Type 2—Tandem



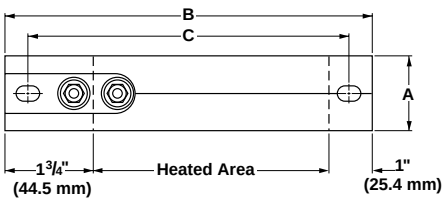
Type 3—Parallel Made-to-Order



Type 4—Opposite Ends with Holes



Type 5—Tandem with Holes



Type 6—Parallel with Holes