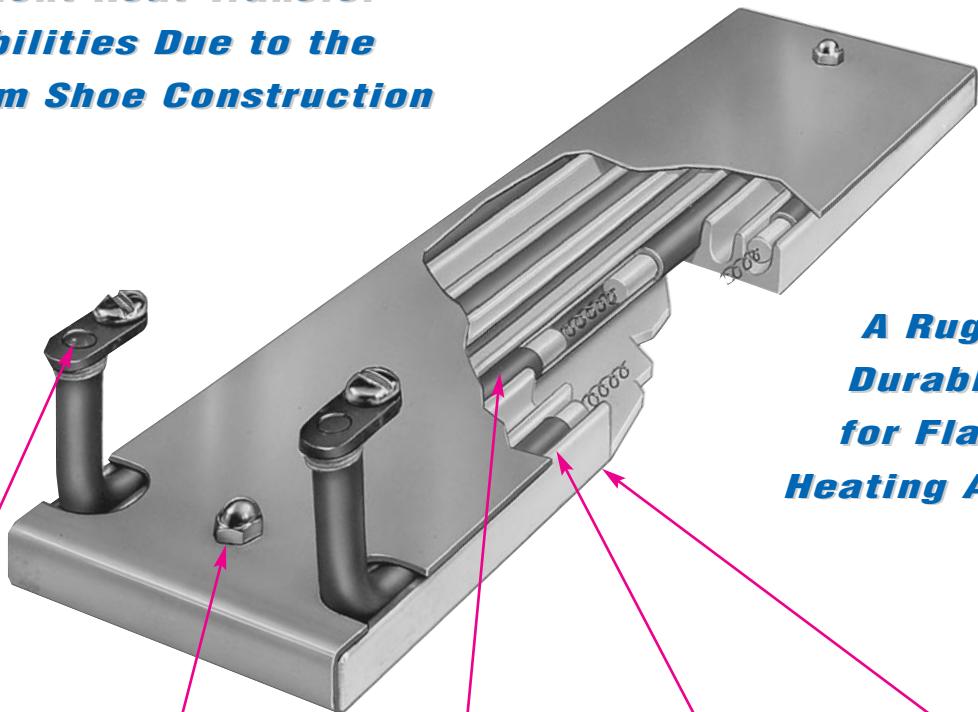


**A Reliable Heat Source with  
Excellent Heat Transfer  
Capabilities Due to the  
Aluminum Shoe Construction**



**A Rugged and  
Durable Heater  
for Flat Surface  
Heating Applications**

**A** Right-angle lug terminals with 10-32 binding head screws provide ease of electrical wiring.

**B** Crown nuts securely fasten the cover plate to the aluminum track, keeping contaminants from coming in direct contact with the tubular heating element.

**C** Ruggedly constructed .315 diameter heating elements are the heat source for Maxistrip heaters, providing excellent life and long, trouble-free service.

**D** Specially designed aluminum track houses the tubular heating element, providing an excellent heat sink for rapid heat transfer and good temperature uniformity.

**E** The surface contact on Maxistrip heaters is extremely smooth and flat, which is essential for good heat conduction. This results in exceptionally long heater life.

**TEMPCO Maxistrip Heaters** are specially designed and engineered for trouble-free performance and more efficient heating of flat surfaces. Due to the rugged construction characteristics of this type of strip heater, it is highly recommended for applications requiring excellent heat transfer and temperature uniformity.

### Design Features

- \* **Quick Installation**
- \* **Contamination Proof**
- \* **Various Lead Terminations**
- \* **Excellent Heat Transfer**
- \* **Excellent Temperature Uniformity**
- \* **Designed for Durability and Trouble-Free Service**

### Typical Applications

- ♦ Extrusion Dies
- ♦ Molds
- ♦ Hot Plates
- ♦ Drying
- ♦ Incubators
- ♦ Platens
- ♦ Sealing Bars
- ♦ Thermoforming
- ♦ Tank Heating
- ♦ Food Warmers



**Note:**

Mounting holes can be provided down the center. For other locations see drawings on page 8-17.

## Specifications & Tolerances

### Standard Specifications and Tolerances

of Maxistrip Heaters.

If tighter tolerances are required, consult Tempco.

### PERFORMANCE RATINGS

**Maximum Sheath Temperature:** 650°F (343°C)

**Maximum Watt Density:** 20 W/in<sup>2</sup> (3.1 W/cm<sup>2</sup>)

### ELECTRICAL SPECIFICATIONS

**Maximum Voltage:** 277VAC

**Maximum Recommended Voltage w/ Leads:** 240VAC

**Maximum Watts:** Dependent on width and length

**Maximum Amperage:** 25 Amps

**Resistance Tolerance:** +10%, -5%

**Wattage Tolerance:** +5%, -10%

### PHYSICAL SIZE CONSTRUCTION LIMITATIONS

**Widths:** 1-1/2" (38.1 mm), 2-1/2" (63.5 mm), 3" (76.2 mm), 4" (101.6 mm)

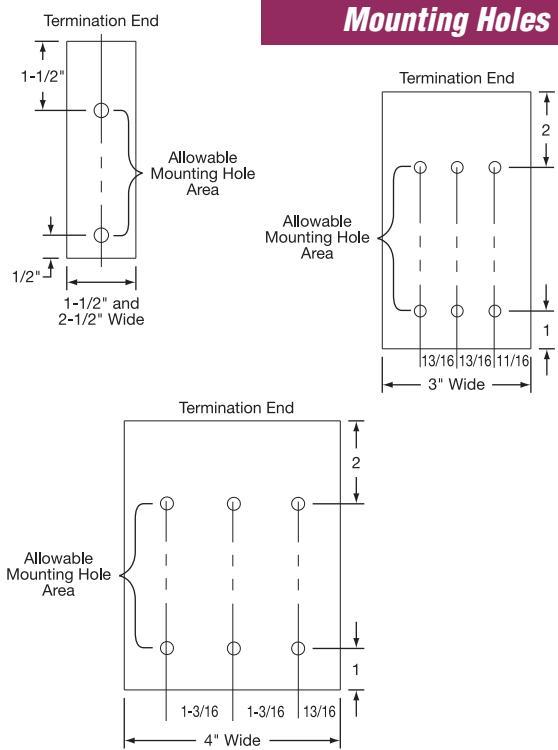
**Thickness:** 1/2" (12.7 mm)

Mounting Holes can be located only along the phantom lines between the holes shown on these drawings.

**Standard Hole Diameter:** 5/16"

**Maximum Hole Diameter:** 1/2"  
(center of width only)

### Mounting Holes



### Screw Terminals

#### Type S

#### Terminal Lugs

Terminal lugs with 10-32 binding head screws are the standard termination for all Maxistrip heaters.



#### Type T1

#### Straight Terminals

Straight outward screw terminals with 8-32 threads.



#### Type R

#### 90° Blockhead Terminals

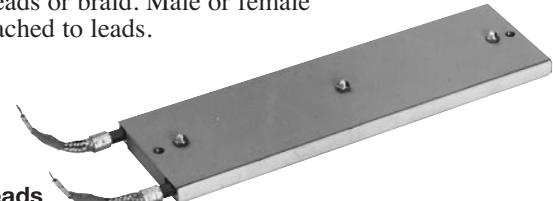
90° Blockhead Terminals with 10-32 threads. Special design can switch between 1800W and 900W at 240V.



### Abrasion Resistant Terminations

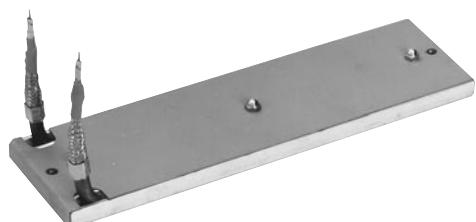
Wire braid provides strength and protection to the lead wire insulation, offering sharp bending not possible with armor cable. 20" of wire braid and 24" flexible leads are standard.

**Options:** Longer leads or braid. Male or female plugs attached to leads.



#### Type W1

#### Straight Wire Braid Leads



#### Type W2

#### Straight-Up Wire Braid Leads

### Special Widths



By combining one or more standard width (1-1/2", 2-1/2", 3" and 4") aluminum strip heater channels, wider surface areas can be developed. Consult Tempco with your requirements.

# Strip Heaters



## Terminations

### Abrasion Resistant Terminations

#### Type W3 Single Wire Braid Leads

Wire braid provides strength and protection to the lead wire insulation, offering sharp bending not possible with armor cable. 20" of wire braid and 24" flexible leads are standard.

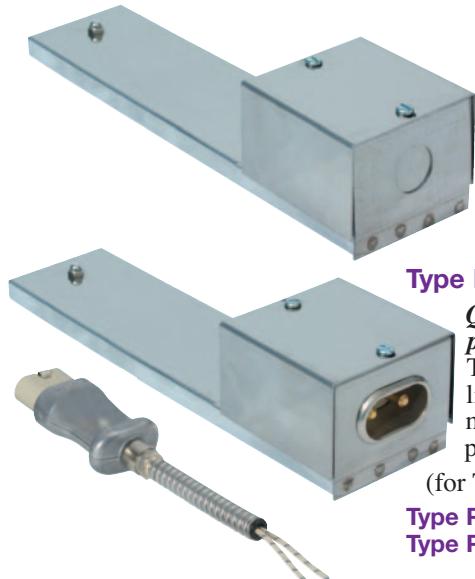
**Options:** Longer leads or braid. Male or female plugs attached to leads.

#### Type R1 Single Armor Cable Leads

Armor Cable provides excellent protection against abrasion and contaminants. The cable exits through an adapter that encapsulates the element ends. The adapter and cable are silver soldered on for maximum security and seal protection. 20" of cable and 24" flexible leads are standard.

**Type R1A** Galvanized cable    **Type R1B** Stainless steel cable

**Options:** Longer leads or cable. Male or female plugs attached to leads.



#### Type C General Purpose Stainless Steel Terminal Box

Terminal Boxes provide a simple and economical way to eliminate all live exposed terminals and electrical wiring that can be a potential hazard to employees or machines. Boxes have 1/2" trade size knockouts (actual diameter 7/8") for standard connections to simplify installation. Strip heaters fitted with boxes can be supplied factory prewired with leads, armor cable or braid.

**Type CA** Box only

**Type CB** Box with galvanized cable

**Type CC** Box with SS cable

**Type CD** Box with wire braid

#### Type P2 Quick-Disconnect High Temperature Plug

**Quick-Disconnect Plug assemblies are highly recommended and should be used whenever possible.** They provide the simplest and safest way to apply power to strip heater installations. The combination of plug and cup assembly, along with armor cable cover leads, eliminates all live exposed terminals and electrical wiring that can be a potential hazard to employees and machines. To simplify installation, Maxistrips fitted with P2 plug assemblies can be supplied prewired, using high-temperature lead wire protected with armor cable or wire braid.

(for Type P on a 1-1/2" wide Maxistrip consult Tempco.)

**Type P2A** Box and cup only

**Type P2C** w/ straight plug and galvanized cable

**Type P2D** w/ straight plug and SS cable

**Type P2E** w/ straight plug and wire braid

#### Standard (Non-Stock) Sizes and Ratings

##### Width 1-1/2" (38.1 mm)

| Length<br>in<br>mm       | Wattage | Watt Density<br>W/in <sup>2</sup><br>W/cm <sup>2</sup> | Part Number |          |
|--------------------------|---------|--|-------------|----------|
|                          |         |  | 120V        | 240V     |
| 3 $\frac{1}{2}$<br>88.9  | 130     | 25<br>4  | MXS00001    | —        |
| 3 $\frac{3}{4}$<br>95.3  | 140     | 25<br>4  | MXS00002    | —        |
| 4<br>101.6               | 150     | 25<br>4  | MXS00003    | —        |
| 4 $\frac{1}{4}$<br>108.0 | 160     | 25<br>4  | MXS00004    | —        |
| 4 $\frac{1}{2}$<br>114.3 | 170     | 25<br>4  | MXS00005    | —        |
| 4 $\frac{3}{4}$<br>120.7 | 180     | 25<br>4  | MXS00006    | —        |
| 5<br>127.0               | 190     | 25<br>4  | MXS00007    | —        |
| 5<br>127.0               | 150     | 20<br>3  | MXS00008    | —        |
| 5 $\frac{1}{4}$<br>133.4 | 200     | 25<br>4  | MXS00009    | —        |
| 5 $\frac{1}{2}$<br>139.7 | 205     | 25<br>4  | MXS00010    | —        |
| 5 $\frac{3}{4}$<br>146.1 | 215     | 25<br>4  | MXS00011    | —        |
| 6<br>152.4               | 225     | 25<br>4  | MXS00012    | —        |
| 6 $\frac{1}{4}$<br>158.8 | 230     | 25<br>4  | MXS00013    | —        |
| 6 $\frac{1}{2}$<br>165.1 | 240     | 25<br>4  | MXS00014    | —        |
| 6 $\frac{3}{4}$<br>171.5 | 250     | 25<br>4  | MXS00015    | —        |
| 7<br>177.8               | 260     | 25<br>4  | MXS00016    | —        |
| 7 $\frac{1}{4}$<br>184.2 | 270     | 25<br>4  | MXS00017    | —        |
| 7 $\frac{1}{2}$<br>190.5 | 170     | 15<br>2  | MXS00018    | —        |
| 7 $\frac{1}{2}$<br>190.5 | 225     | 20<br>3  | MXS00019    | —        |
| 7 $\frac{1}{2}$<br>190.5 | 280     | 25<br>4  | MXS00020    | MXS00021 |
| 7 $\frac{3}{4}$<br>196.9 | 290     | 25<br>4  | MXS00022    | MXS00023 |
| 8<br>203.2               | 240     | 20<br>3  | MXS00024    | MXS00025 |
| 8<br>203.2               | 300     | 25<br>4  | MXS00026    | MXS00027 |
| 8 $\frac{1}{4}$<br>209.6 | 310     | 25<br>4  | MXS00028    | MXS00029 |

| Length<br>in<br>mm        | Wattage | Watt Density<br>W/in <sup>2</sup><br>W/cm <sup>2</sup> | Part Number |          |
|---------------------------|---------|--|-------------|----------|
|                           |         |  | 120V        | 240V     |
| 8 $\frac{1}{2}$<br>215.9  | 320     | 25<br>4  | MXS00030    | MXS00031 |
| 8 $\frac{3}{4}$<br>222.3  | 330     | 25<br>4  | MXS00032    | MXS00033 |
| 9<br>228.6                | 270     | 25<br>4  | MXS00034    | MXS00035 |
| 9<br>228.6                | 335     | 25<br>4  | MXS00036    | MXS00037 |
| 9 $\frac{1}{4}$<br>235.0  | 345     | 25<br>4  | MXS00038    | MXS00039 |
| 9 $\frac{1}{2}$<br>241.3  | 350     | 25<br>4  | MXS00040    | MXS00041 |
| 9 $\frac{3}{4}$<br>247.7  | 355     | 25<br>4  | MXS00042    | MXS00043 |
| 10<br>254.0               | 300     | 20<br>3  | MXS00044    | MXS00045 |
| 10<br>254.0               | 375     | 25<br>4  | MXS00046    | MXS00047 |
| 10 $\frac{1}{4}$<br>260.4 | 385     | 25<br>4  | MXS00048    | MXS00049 |
| 10 $\frac{1}{2}$<br>266.7 | 315     | 20<br>3  | MXS00050    | MXS00051 |
| 10 $\frac{1}{2}$<br>266.7 | 395     | 25<br>4  | MXS00052    | MXS00053 |
| 11<br>279.4               | 330     | 20<br>3  | MXS00054    | MXS00055 |
| 11<br>279.4               | 410     | 25<br>4  | MXS00056    | MXS00057 |
| 11 $\frac{1}{4}$<br>285.8 | 335     | 20<br>3  | MXS00058    | MXS00059 |
| 11 $\frac{1}{2}$<br>292.1 | 345     | 20<br>3  | MXS00060    | MXS00061 |
| 12<br>304.8               | 270     | 15<br>2  | MXS00062    | MXS00063 |
| 12<br>304.8               | 450     | 25<br>4  | MXS00064    | MXS00065 |
| 12<br>304.8               | 360     | 20<br>3  | MXS00066    | MXS00067 |
| 12 $\frac{1}{2}$<br>317.5 | 375     | 20<br>3  | MXS00068    | MXS00069 |
| 12 $\frac{3}{4}$<br>323.9 | 380     | 20<br>3  | MXS00070    | MXS00071 |
| 13<br>330.2               | 290     | 15<br>2  | MXS00072    | MXS00073 |
| 13<br>330.2               | 390     | 20<br>3  | MXS00074    | MXS00075 |
| 14<br>355.6               | 420     | 20<br>3  | MXS00076    | MXS00077 |

**View Product Inventory @ [www.tempco.com](http://www.tempco.com)**

**Standard (Non-Stock) Sizes and Ratings**
**Width 2-1/2" (63.5 mm)**

| Length<br>in<br>mm | Wattage | Watt Density      |                   | Part Number |          |
|--------------------|---------|-------------------|-------------------|-------------|----------|
|                    |         | W/in <sup>2</sup> | W/cm <sup>2</sup> | 120V        | 240V     |
| 3½                 | 88.9    | 175               | 20                | 3           | MXS00078 |
| 3¾                 | 95.3    | 230               | 25                | 4           | MXS00079 |
| 4                  | 101.6   | 250               | 25                | 4           | MXS00080 |
| 4½                 | 114.3   | 280               | 25                | 4           | MXS00081 |
| 5                  | 127.0   | 310               | 25                | 4           | MXS00082 |
| 5½                 | 139.7   | 340               | 25                | 4           | MXS00083 |
| 6                  | 152.4   | 375               | 25                | 4           | MXS00084 |
| 6½                 | 165.1   | 325               | 20                | 3           | MXS00085 |
| 6¾                 | 171.5   | 335               | 20                | 3           | MXS00086 |
| 7                  | 177.8   | 435               | 25                | 4           | MXS00088 |
| 7½                 | 184.2   | 360               | 20                | 3           | MXS00090 |
| 7½                 | 190.5   | 465               | 25                | 4           | MXS00092 |
| 7¾                 | 200.0   | 295               | 15                | 2           | MXS00094 |
| 8                  | 203.2   | 400               | 20                | 3           | MXS00096 |
| 8                  | 203.2   | 500               | 25                | 4           | MXS00098 |
| 8½                 | 209.6   | 410               | 20                | 3           | MXS00100 |
| 8½                 | 215.9   | 530               | 25                | 4           | MXS00102 |
| 9                  | 228.6   | 560               | 25                | 4           | MXS00104 |
| 9½                 | 241.3   | 590               | 25                | 4           | MXS00106 |
| 10                 | 254.0   | 500               | 20                | 3           | MXS00108 |
| 10                 | 254.0   | 625               | 25                | 4           | MXS00110 |
| 10½                | 266.7   | 650               | 25                | 4           | MXS00112 |
| 11                 | 279.4   | 550               | 25                | 4           | MXS00114 |
| 11½                | 292.1   | 575               | 20                | 3           | MXS00116 |
| 11½                | 292.1   | 715               | 25                | 4           | MXS00118 |
| 12                 | 304.8   | 600               | 20                | 3           | MXS00120 |
| 12                 | 304.8   | 750               | 25                | 4           | MXS00122 |
| 12½                | 317.5   | 625               | 25                | 4           | MXS00124 |
| 13                 | 330.2   | 650               | 25                | 4           | MXS00126 |
| 13½                | 342.9   | 675               | 25                | 4           | MXS00128 |
| 14                 | 355.6   | 700               | 20                | 3           | MXS00130 |
| 14                 | 355.6   | 875               | 25                | 4           | MXS00132 |
|                    |         |                   |                   |             | MXS00133 |

**Width 3" (76.2 mm)**

| Length<br>in<br>mm | Wattage | Watt Density      |                   | Part Number |          |
|--------------------|---------|-------------------|-------------------|-------------|----------|
|                    |         | W/in <sup>2</sup> | W/cm <sup>2</sup> | 120V        | 240V     |
| 6                  | 152.4   | 450               | 25                | 4           | MXS00134 |
| 6½                 | 165.1   | 485               | 25                | 4           | MXS00136 |
| 7                  | 177.8   | 525               | 25                | 4           | MXS00138 |
| 7½                 | 190.5   | 560               | 25                | 4           | MXS00140 |
| 8                  | 203.2   | 600               | 25                | 4           | MXS00142 |
| 8½                 | 215.9   | 635               | 25                | 4           | MXS00144 |
| 9                  | 228.6   | 675               | 25                | 4           | MXS00146 |
| 9½                 | 241.3   | 710               | 25                | 4           | MXS00148 |
| 10                 | 254.0   | 600               | 20                | 3           | MXS00150 |
| 10½                | 266.7   | 630               | 20                | 3           | MXS00152 |
| 11                 | 279.4   | 660               | 20                | 3           | MXS00154 |
| 11½                | 292.1   | 690               | 20                | 3           | MXS00156 |
| 12                 | 304.8   | 720               | 20                | 3           | MXS00158 |
| 12½                | 317.5   | 750               | 20                | 3           | MXS00160 |
| 13                 | 330.2   | 780               | 20                | 3           | MXS00162 |
| 13½                | 342.9   | 810               | 20                | 3           | MXS00164 |

**Width 4" (101.6 mm)**

| Length<br>in<br>mm | Wattage | Watt Density      |                   | Part Number |          |
|--------------------|---------|-------------------|-------------------|-------------|----------|
|                    |         | W/in <sup>2</sup> | W/cm <sup>2</sup> | 120V        | 240V     |
| 6                  | 152.4   | 600               | 25                | 4           | MXS00166 |
| 7                  | 177.8   | 700               | 25                | 4           | MXS00168 |
| 8                  | 203.2   | 800               | 25                | 4           | MXS00170 |
| 9                  | 228.6   | 900               | 25                | 4           | MXS00172 |
| 10                 | 254.0   | 1000              | 25                | 4           | MXS00174 |
| 11                 | 279.4   | 880               | 20                | 3           | MXS00176 |
| 12                 | 304.8   | 960               | 20                | 3           | MXS00178 |
| 12½                | 317.5   | 1000              | 20                | 3           | MXS00180 |
| 13                 | 330.2   | 1040              | 20                | 3           | MXS00182 |
| 13½                | 342.9   | 1080              | 20                | 3           | MXS00184 |

**Ordering Information**
**Catalog Heaters**

Select a Maxistrip Heater from the Standard Sizes and Ratings lists above. Note that Part Numbers shown are for heaters with type "S" termination. Specify Part Number and Quantity. Lead time is 3 weeks.

**Custom Engineered/Manufactured Heaters**

An electric heater can be very application specific; for sizes and ratings not listed, TEMPCO will design and manufacture a Maxistrip Heater to meet your requirements. **Standard lead time is 3 weeks.**

**Please Specify** the following:

- Width
- Termination Types
- Length
- Lead Length
- Wattage
- Cable/Braid Length
- Voltage
- Optional Features

 **WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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