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# **High Temperature Mica Strip Heater**

Omega's high temperature mica heaters consist of an etched foil element placed between lays of mica. These are normally installed by clamping to heat sinks via bolt holes in the heater, using its accompanying backing plate. This high temperature provides the ultimate temperature and wattage capability for fast heating. The HTMSH series heaters have a broad temperature range, achieving up to 600°C; this results in faster processing and cycle times for greater production output.

#### **Features**

- High watt density capability to 100 W/in<sup>2</sup> for very fast processing times
- Custom profiled heat density and mechanical clamping for heat uniformity to improve processing yields
- Suitability for vacuum use after warmup
- Rugged materials of construction prevent costly damage during installation and handling
- Highest temperature capability (up to 600°C) for the most demanding applications

### **Typical Applications**

- High-temperature laminating processes
- Mold and die temperature heating/monitoring
- Semiconductor processing
- Packaging, strapping and sealing equipment
- DNA thermocycling
- Food service applications
- Machinery and heavy parts heating
- Plastics and rubber molding

## **Specifications**

| -150 to 600°C (-238 to 1112°F)  |   |   |
|---|---|---|
| $\pm 10\%$ or $\pm 0.5$ Ω, whichever is greater   |   |   |
| 1000 VRMS or 2000 VRMS (dependent on model)   |   |   |
| Clamping using heat sink, holes in heater and backing plate   |   |   |
| Mica/glass insulated, stranded nickel-clad copper, potted over termination with high temperature cement |   |   |
| Mica insulation<br>0.010" (0.3mm)<br>0.020" (0.5mm)   | <b>a</b> 1  | Over lead termination<br>0.200" (5.1mm)<br>0.220" (5.6mm)   |
| AWG 22 – 8.0A<br>AWG 20 – 9.0A  |   |   |
|   | ±10% or ±0.5 Ω, w     1000 VRMS or 20     Clamping using he     Mica/glass insulat     termination with     Mica insulation     0.010" (0.3mm)     0.020" (0.5mm)     AWG 22 – 8.0A | <ul> <li>±10% or ±0.5 Ω, whichever is greater</li> <li>1000 VRMS or 2000 VRMS (dependent on r</li> <li>Clamping using heat sink, holes in heater a</li> <li>Mica/glass insulated, stranded nickel-clad of termination with high temperature cement</li> <li>Mica insulation Over heater elements</li> <li>0.010" (0.3mm)</li> <li>0.030" (0.8mm)</li> <li>0.020" (0.5mm)</li> <li>0.050" (1.3mm)</li> <li>AWG 22 - 8.0A</li> <li>AWG 20 - 9.0A</li> </ul> |



