



# HEAT ONE TECHNOLOGY

Mica Band Heaters

Ceramic Band Heaters

Cartridge Heaters

Ceramic Strip Heaters

Tubular Air & Immersion Heaters

Short Wave Infrared Heaters

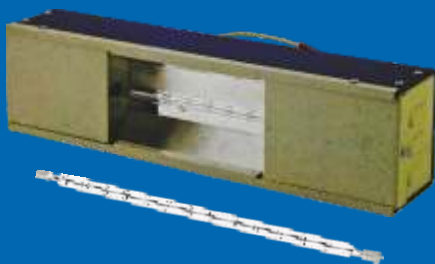
Micro Tubular Heaters

Ceramic Infrared Heaters

Short Wave Infrared Heating Modules

Medium Wave Infrared Heating Modules

## INDUSTRIAL HEATING ELEMENTS



**Innovative, Versatility & Affordability**



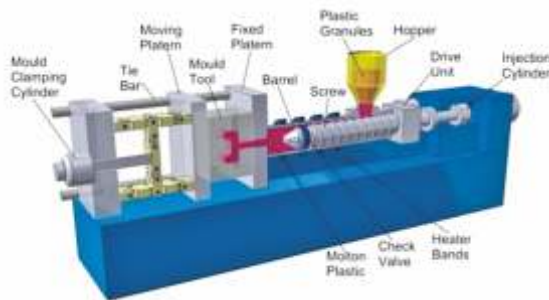
## MICA BAND HEATERS

HEAT One offers Mica Band Heaters in different sizes. These are flexible, inexpensive & reliable. These can be insulated for saving power up to 10%. Best quality of raw materials are being used. These are very simple to fit with their integral clamping arrangements. These can be round, flat or box section. Mica Band Heaters are widely used to heat the molds, dies, nozzles and especially to heat the cylinders (barrels) on all type of plastic processing machinery. The mica heater is most economical. Maximum sheath temperature upto 300°C . Maximum watt density = 25 watts/ square inches. The built in insulation is specially formulated for the excellent heat reflection & performance capabilities. The most common square, rectangular and hex-shaped mica heaters can be manufactured as per customer specifications in one or two piece units. Available with leads or terminals. Heat One Technology's exclusive method of designing, maximizes the element wire coverage of the heated area. This results in uniform heat distribution & longer heater life.



## CERAMIC BAND HEATERS

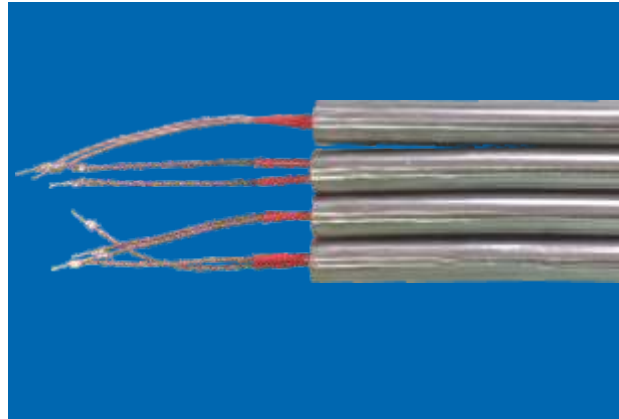
The Ceramic Band Heater design consist of a helically wound resistance coil made from Nickel-chrome wire, evenly stretched and precisely strung through specially designed ceramic insulating bricks, forming a flexible heating mat. The ceramic heating mat along with ceramic fiber insulation is installed in a stainless steel housing made with serrated edges, providing maximum flexibility for easy installation. These are specially designed for energy conservation & improve the operation efficiency.





## CARTRIDGE HEATERS

Heat One Technology offers High Watt Density Cartridge Heaters in SS 304 & SS 316 with watt density of 12 watt/sq.cm & low watt density cartridge heaters in brass or SS 304 sheath with watt density of 4 watt/sq.cm. These are also available with in-built Thermocouple as per requirement. Different types of Terminations available on request. The heaters are designed for providing maximum performance & long life.



### Ordering Information:

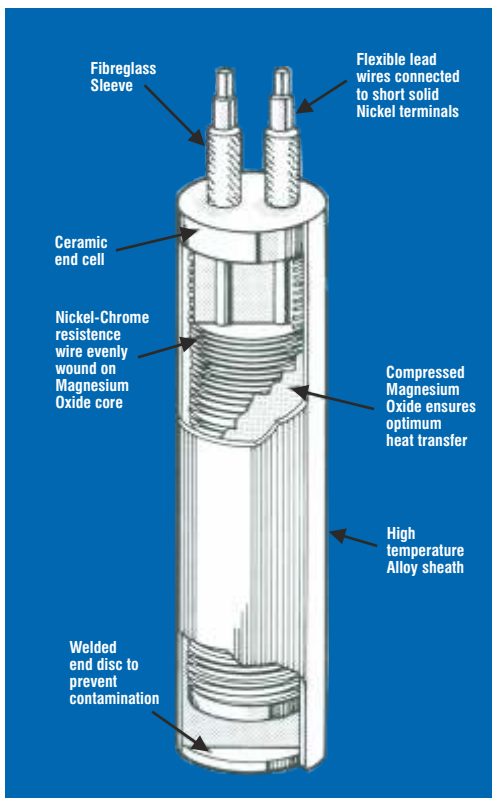
1. Diameter
2. Length
3. Wattage
4. Voltage
5. Wire lead length
6. Inbuilt Thermocouple required or not
7. Termination type

### Application:

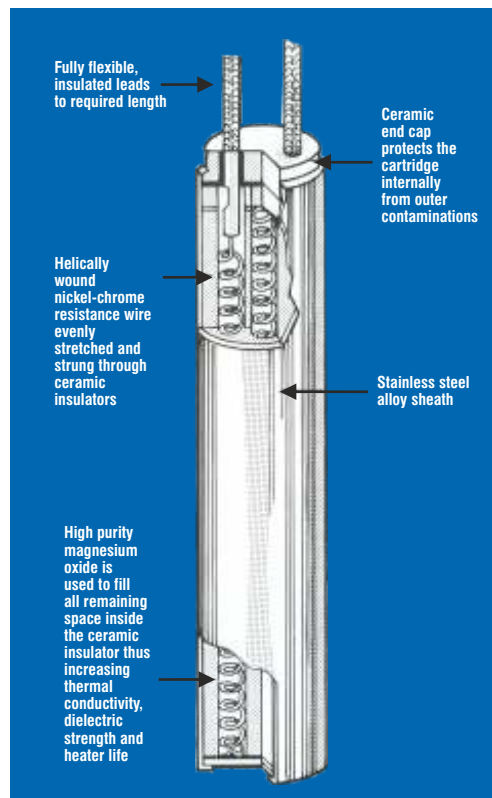
Cartridge heaters can be specified to meet the demand of special Application:

- Moulds & Dies
- Labeling Machines
- Packaging Equipment
- Laminating Equipment
- Heating liquids & gases

### HIGH WATT DENSITY



### LOW WATT DENSITY

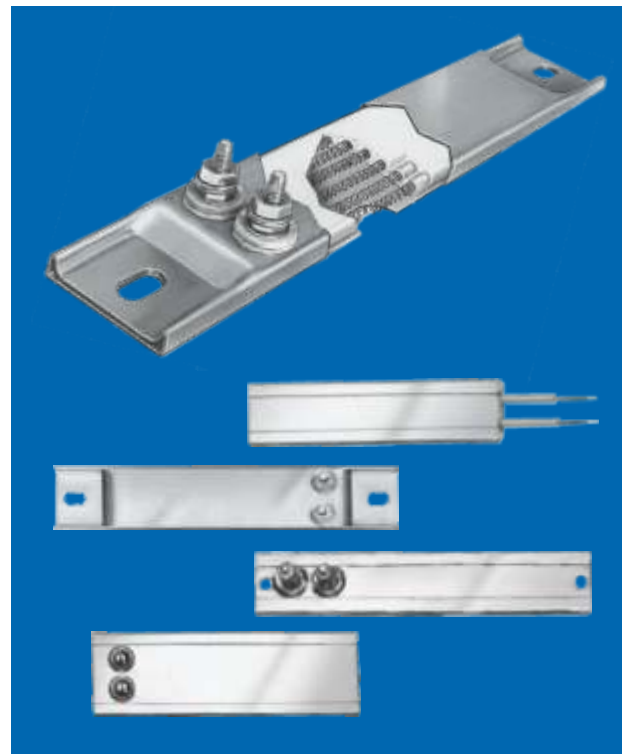




## CERAMIC STRIP HEATER

Ceramic Strip Heater is made of Nickel Chrome Resistance wire helically wound coil, which is placed in the heater. The Coil is precisely strung enough the ceramic insulator & then is mechanically connected to the screw terminals or lead wires as required. The outer body is made of SS304 Stainless Steel Sheath which provides physical strength & resistance to high temperature upto 600°C. The resistance wire coil is housed in specially designed ceramic insulator. The Ceramic Strip Heaters are available with or without mounting holes

These heaters are also available with fins for air heating applications. The fins have been specially designed to provide maximum surface contact for good heat dissipation thus resulting in rapid heat transfer to the air.



### Performance Ratings:

Maximum Sheath Temp. : 650°C  
Nominal Watt Density : 20W / in<sup>2</sup> (3.1 W/cm<sup>2</sup>)

### Electrical Ratings:

Maximum Voltage : 480V AC  
(Dependent on design parameters)

### Maximum Recommended

Voltage w / Leads : 240V AC  
Maximum Amperage : Lead wire termination  
: 10 amp  
Screw Terminations : 10 - 32 UNF - 25 amp  
Resistance Tolerance : +10%, -5%  
Wattage Tolerance : +5%, -10%

### Applications:

- Ovens
- Hot Plates
- Moulds & Dies
- Baking
- Incubators
- Air Heating & much more.

### Physical Size Construction Limitations:

#### Width:

5/8" Wide Heater : +.000, -.005"  
1" & 1.5" Wide Heaters : +.000, -.010"

#### Thickness:

1/4" Thick Heater : +.000, -.005"  
5/16" & 3/8" Thick Heaters : +.000, -.008"

#### Length:

Up to 24" : ±1/16"  
Over 24" : ±1/8"

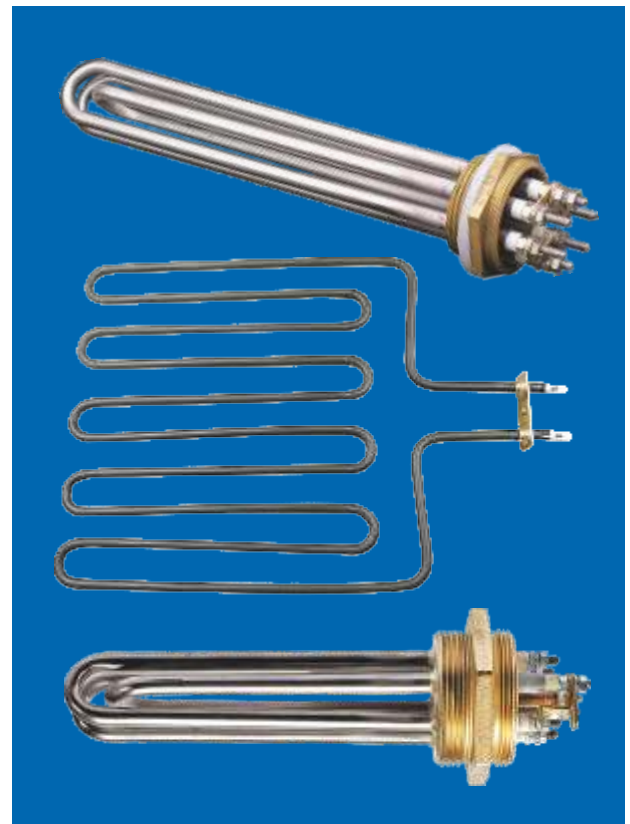
#### Mounting Slot Size:

Standard : 5/16" x 1/2"  
Special : 1/2" x 5/8"



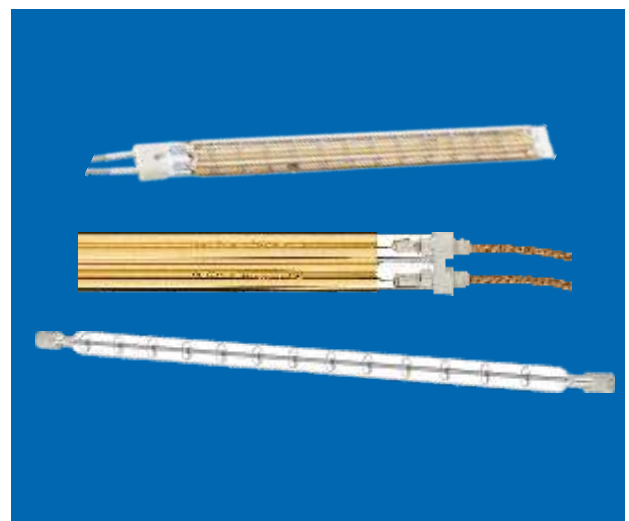
## TUBULAR AIR & IMMERSION HEATERS

Tubular heaters are the most versatile & widely used for many applications. It can be formed in any shape to heat liquids, gases, solids and surfaces. Immersion heaters are mounted through tank walls using standard pipe couplings and are available in various sizes, heat capacities and sheath materials for heating oil, water, chemical solutions. Tubular heaters are supplied in Chrome Nickel Steel with nominal sheath diameter of 6.50mm and 8.00mm. The helical wound heating wire is made of high temperature resistant Nic alloy. And the insulation consist of superior grade of Mgo. As the heaters are swaged, even at high temperature they have excellent electrical insulation and a high transfer. To prevent the heater from moisture the connection ends are sealed with sealing components. Available in dia 4 / 6 / 6.3 / 6.5 / 8 mm & square section of 6mm x 6mm / 7mm x 7mm / 8mm x 8mm.



## SHORT WAVE INFRARED HEATERS

Heat One Technology offers short wave IR lamp in which heat is transmitted at the speed of light. These are in the form of electromagnetic rays. Short wave IR lamps are available in various sizes and with or without coating. These are also come in Single or Twin tube. Beneficial in ON-OFF application. Short Wave IR heaters / Lamps are used in various industrial applications. It contains Tungsten filament, helically wound, encased in quartz envelope. Tungsten as resistive element is capable of generating temperature in excess of 2450°C. Its response time is very rapid, in 1 second it emits over 90% of IR Energy. Short Wave IR element has maximum heating rate of 200 Watts/inch.



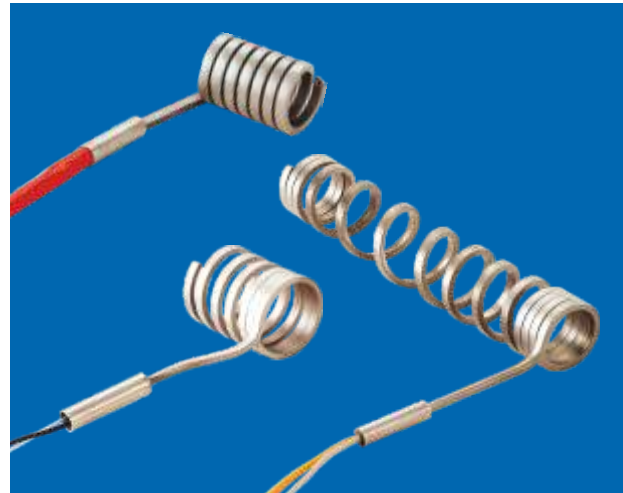


## MICRO TUBULAR HEATERS

Heat One Technology offers Micro Tubular Heaters which are adapted to a variety of applications. This is because it can be formed into any shape. Micro Tubular Heaters are swaged and compacted with magnesium oxide and a helical or straight resistance element. These heaters are used in tight spaces. Inbuilt thermocouple like J or K is also available. These are also available in round and square sheath.

### Features:

1. 360° heated area
2. Readily conforms to surface
3. Fast response and quick heat transfer
4. Helical Coil design for superior performance
5. Resistance to corrosion
6. Available with thermocouple



## CERAMIC INFRARED HEATERS

Heat One Technology offers ceramic IR heaters composed of resistance wire embedded in a glazed ceramic body. The firm embedding makes installation in any position possible. The glazed used for ceramic heaters has excellent radiation properties. These heaters are available with different sizes, wastage & shapes. They are designed for operating temperature up to 750°C - 1000°C. The ceramic element is produced to optimise these essential and valuable characteristics, which translates into improved efficiency and quality in the radiated product. Applications include long wave radiation curing, heating and drying.

**WARNING:** This component part shall only be used where adequate electrical, thermal and mechanical barriers are provided to prevent access to hazardous parts without use of a tool.





## SHORT WAVE INFRARED HEATING MODULES

Infrared Modules are the ideal solution in the application of infrared heat technology. It can save the user costs and time, but are substantially less expensive than complete infrared systems.

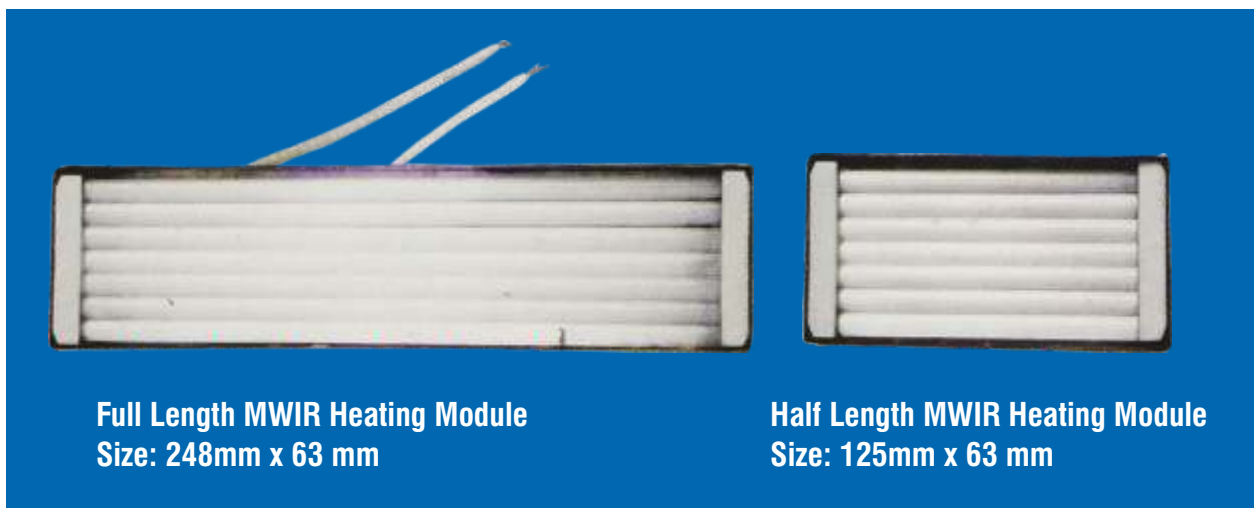


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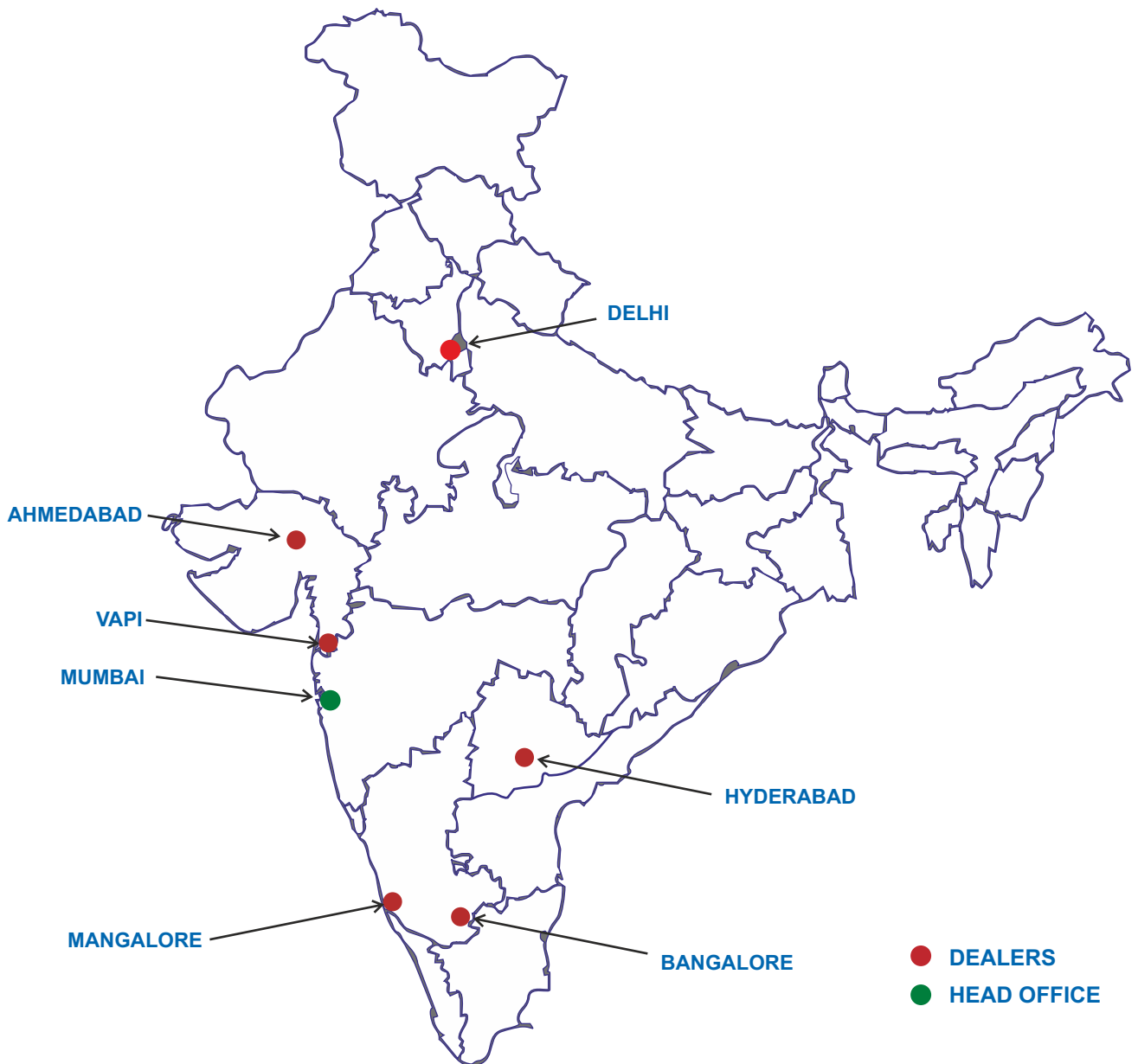
## MEDIUM WAVE INFRARED HEATING MODULES

### Features:

- Good Radiant Efficiency up to 80%
- Very rapid Heat-up, Cool-down time 30 to 60 seconds
- Watt density up to 40 watts / sq. inch
- Infrared Wavelength Range from 2.5m to 3.0m
- Low Power Consumption



## Innovative, Versatility & Affordability



**HEAT ONE TECHNOLOGY**

**Innovative Heating Elements**

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