

High watt density cartridge heaters are built with premium materials to maximize field performance. Our cartridge heaters can be configured with optional type J or K thermocouples. Thermal Solutions is also able to distribute metric sizes from 3.1 mm to 25 mm and imperial sizes ranging from 1/8" to 1". If you need a quality built cartridge heater designed to your specifications and delivered fast, Thermal Solutions has the right high watt density cartridge heater solution for you. No new technology has been able to surpass this cartridge heater with respect to performance, durability, and value heating an object from the inside out.

Performance Capabilities

- Heater Sheath: CrNi Steel
- Insulation Material: Highly Compressed MgO
- Heating Wire: NiCr 8020
- Maximum Sheath Temperature: 1382 Deg F
- High Voltage Stability <= 24v Nominal : 500VAC (cold)
- High Voltage Stability > 24v Nominal: 1500VAC(cold) *Higher on request
- Insulation Resistance: min. 5M Ohms @ 500 VDC (cold) >5M Ohms on request
- Discharge Current: max0.5mA @ 253 VDC(cold)
- Length Tolerance: +/- 1.5%(min. +/- 1mm) *Others on request
- Resistance Tolerance: +/- 10% smaller on request
- Diameter Tolerance Standard: +/- .002"
- Diameter Tolerance Premium: +/- .0008"
- Maximum Voltage: 600V - Maximum Warranted Watt Density: 160 Watts/ln2
- Length of Unheated: Lead End = 5 to 25mm, 4-10mm; Disc End = 64-9mm; * Others on request
- Maximum Length: 105" *Consult Engineering for your Diameter Size
- Supported Diameters Imperial: 1/8", 1/4", 5/16", 3/8", 1/2", 5/8", 11/16", 3/4", 1",
- Supported Diameters Metric: 3.1mm, 6mm, 6.35mm, 6.5mm, 7mm, 7.9mm, 8.9mm, 9.5mm, 10mm, 11mm, 12mm, 12.5mm, 12.7mm, 13mm, 14mm, 15mm, 15.8mm, 16mm, 17.5, 18mm, 19mm, 20mm, 22mm, 25.4mm

Part Number 28491

- 0.250" (1/4") Diameter X 4.000" Length
High 6.320mm – Low 6.280mm (Std Tolerances)
Overall Length: 4.000", +0.060/-0.060"
- Unheated Length (Ref), Leads: 0.423", Cap: 0.211"; Heated Length: 3.366"
- 24 Volts, 100 Watts +5/-10% (Watt Density: 37.8W/in²) 4.1 Amps
- High Watt Cartridge Heater, Centerless
- Lead Length: 24.000", +1.000/-1.000"
- Type: Swaged Teflon 260°C/500°F Rated (Both [Continuous leads])
- Tube Material: SS 321
- Potting: Ceramic
- Identification: Stamp - Customer Name, Volts/Watts, Part No, Lot No, Date

