

# Induction Hermetically sealing glass

United Induction Heating Machine Limited

We are experienced in Induction Heating, induction heating machine, Induction Heating equipment. They are widely used in induction heating service, induction heat treatment, induction brazing, induction hardening, induction welding, induction forging, induction quenching, induction soldering, induction melting and induction surface treatment applications  
<http://www.uihm.com>

**Hermetically sealing glass**      Objective Provide a hermetic seal of glass enclosed resistor to a lead

**Material Resistor**

Kovar rings, 0.1 inch (0.254cm) diameter

Glass tube slightly larger than 0.1 inch (0.254cm) diameter, 0.5 (1.27) inch length

Metal lead

Temperature 900 °F (482) °C

Frequency 324 kHz

**Equipment** • Power of 6kW induction heating system, equipped with a remote workhead containing two (2) 1.5 µF capacitors (for a total of 0.75 µF).

• An induction heating coil designed and developed specifically for this application.

Process A three turn concentrator plate coil is used to heat the Kovar ring for 500 milliseconds. This causes the glass to melt and seal one side of the resistor. The resistor is then turned over and the process is repeated to seal the other side using a second Kovar ring.

**Results/Benefits** Induction heating provides precise, consistent heat to very small parts resulting in repeatable, quality seals.

By heating with medium frequency, arcing (which occurs at high frequencies) is avoided.      Hermetically sealing glass

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