

Induction Soldering Glass Feedthroughs

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>

Soldering Glass Feedthroughs Objective Heat a kovar fiber optic housing with glass feed-throughs to 400°F (204.4°C) within 20 seconds for a soldering application, to form a hermetic seal Material Kovar housing with 18 glass feed-throughs, solder preforms and flux

Temperature 400 °F(204.4°C)

Frequency 300 kHz

Equipment • Power of 6 kW RF induction heating system equipped with a remote workhead

- An induction heating coil designed and developed specifically for this application

Process A specially designed single-turn, pancake coil is used to provide uniform heating to the kovar housing. The coil position is adjusted to heat only the front portion of the assembly. The feedthroughs and solder preforms are assembled with flux. Power is applied for 20 seconds, causing the solder to flow cleanly around the feed-throughs.

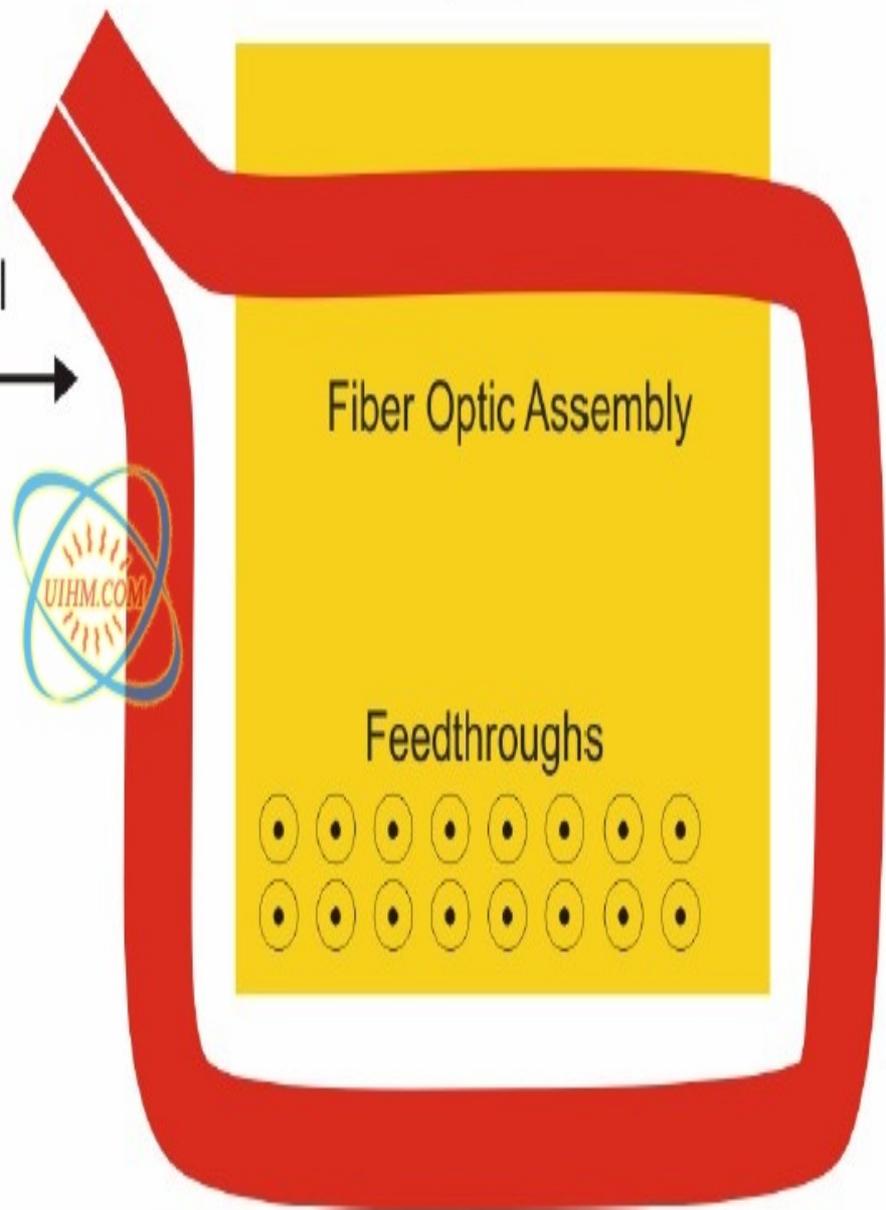
Results/Benefits Induction heating provides:

- All 18 feedthroughs can be soldered at the same time
 - Faster production time & more economical
 - Controllable, repeatable results
- Soldering Glass Feedthroughs

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Top View



Induction Coil

Feedthroughs

Fiber Optic Assembly

Feedthroughs

Fiber Optic Assembly

Side View

