

# HEATER FLEXIBLE ASSEMBLIES CIRCUITS

Accelerating Diagnostics with High-Performance  
& High Watt Density Heating Solutions



Flexible Circuit Technologies (FCT) has been working with Molecular Diagnostic, DNA Sequencing, and P.O.C. Instrument companies to decrease their cycle time and increase their test throughput with our high watt density adhesiveless heaters.

- **Built to perform reliably at higher temperatures and watt densities**
- **Helps customers shorten cycle times for quicker patient outcomes**

## BENEFITS INCLUDE:

### Custom-Engineered Applications

Exact design specifications, including unique shapes and precision trace layouts to achieve targeted resistance values.

### Faster Warm-Up & Faster Results

Rapid thermal response helps reduce cycle times and accelerate patient outcomes.

### Uniform & Reliable Heating Performance

Optimized for thermal consistency with dual-layer construction and multiple heating zones to enhance control.

### Ultra-Thin & Flexible Design

Profiles as thin as 0.0045" (113  $\mu\text{m}$ ) enable seamless integration into compact or space-constrained devices.

### High Wattage & High Temperature Capable

Built to perform reliably in demanding thermal environments.

### Extended Life in Autoclave Applications

Engineered for durability to withstand repeated sterilization cycles.



## CERTIFICATIONS

ISO9001 • ISO13485 • IATF16949 • VDA 6.3



inTFlex  
The ISO Group of Flexible Circuit Technologies

# CUSTOM ASSEMBLY FOR A TURNKEY SOLUTION:



**Factory laminated to heat sink to reduce cost/assembly time and improve heater reliability**

## Temperature sensing/protection

RTDs

Thermistors

Thermal fuse/cutoff

Embedded Type T Thermocouples

## Multiple termination options

Connectors

ZIF

Lead wires



# inTFlex

The EMS Group of Flexible Circuit Technologies

With over 900,000 sq/ft of cutting-edge manufacturing technology, inTFlex merges FCT's electronic manufacturing and contract manufacturing services into a new state-of-the-art facility. inTFlex, the EMS group of Flexible Circuit Technologies, features high-speed, fully automated SMT smart lines, plastics molding, membrane switches, CNC capabilities, fixtures, and all existing value-added services. inTFlex allows FCT to continue providing outstanding EMS and CM services to bring world-class interconnect solutions to life, optimize production efficiency, and support program scalability for global medical clients.

To learn more about inTFlex, visit:

[flexiblecircuit.com/intflex](http://flexiblecircuit.com/intflex)

- FPCA and PCBA
- Sub-Assembly
- Box Build
- Plastics and Sterilization
- Bare flex circuits

Please contact **Flexible Circuit Technologies** for more information: [sales@flexiblecircuit.com](mailto:sales@flexiblecircuit.com)



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