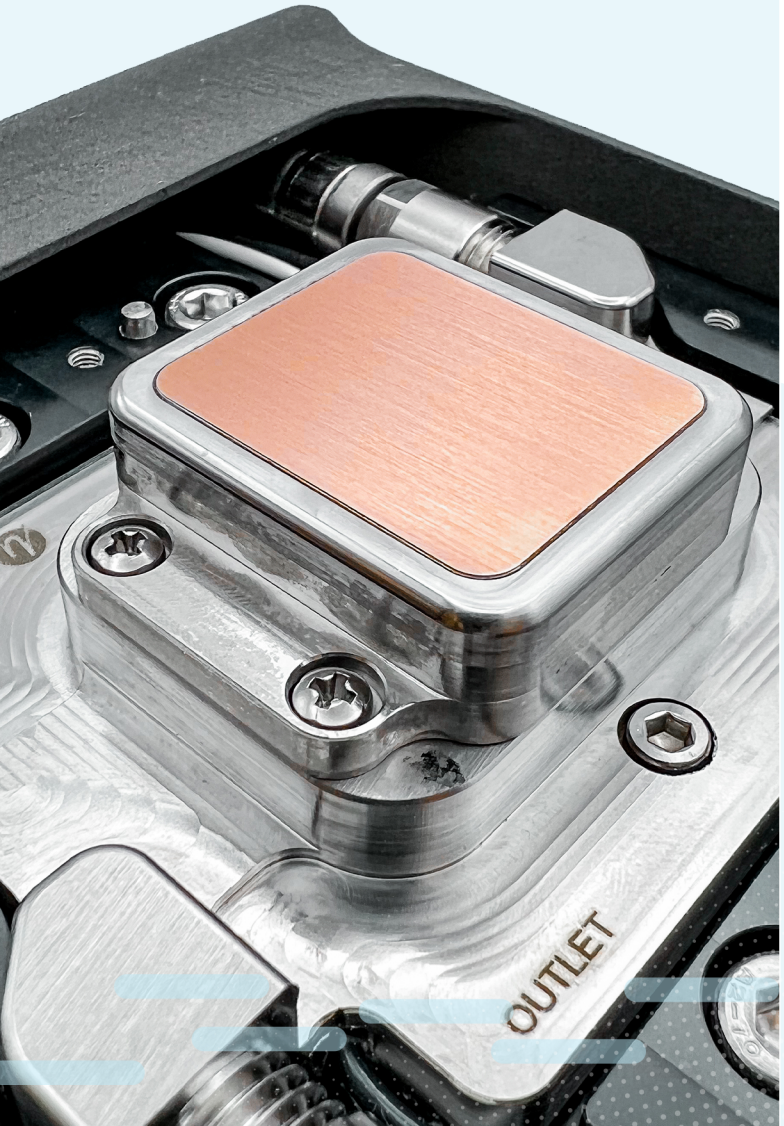
MIKROS TU3

PRODUCT OF THE YEAR



HEAT | COOL | TEST

ABOUT THE TU3

The TU3 is a thermal test head for semiconductor validation that combines Mikros' patented high-performance microchannel cooling with embedded heaters, precision fluid controls and full mechanical gimbaling to provide tight temperature control of chips during their various stages of testing.

OPTIMIZATION FOR TEST

Originally designed to retrofit into existing automated test equipment (ATE), the TU3 thermal control technology can be customized to a wide variety of test setups. The TU3 provides the highest cooling capacity and fastest thermal transients available on the market today. The Mikros TU3 pairs a standard test head and controller with DUT-specific cold plate for optimized performance and hardware reusability.

KEY FEATURES

- **High cooling capacity** using microchannel flow paths
- **Fast thermal transients** using integrated heater designs
- **Easy serviceability** with quick disconnect hoses
- **Removeable cold plates** for new processors
- **User interface** for easy performance tracking
- **Durability tested** to 1 million insertions

SYSTEM PERFORMANCE

COOLING CAPACITY*	100 to 250 W/cm² with fluorinated dielectric coolants 150 to 400 W/cm² with aqueous coolants
THERMAL TRANSIENT	80°C drop in < 2 sec
TEMP RANGE	-20 C° - 105 C°
DATA LOGGING	Automatic and manual tracking of thermal data
COMPLIANCE	X-Y: 1mm, Tilt: 5° from horizontal
CONTROL MODES	DUT Temp control Cold Plate Temp control

*Ranges represent 5 °C inlet, 95 °C test temperature, indium or graphite TIM, 4 to 20 cm² die area. Please contact us with your test conditions for a detailed performance estimate

TU3

AC REQUIREMENTS

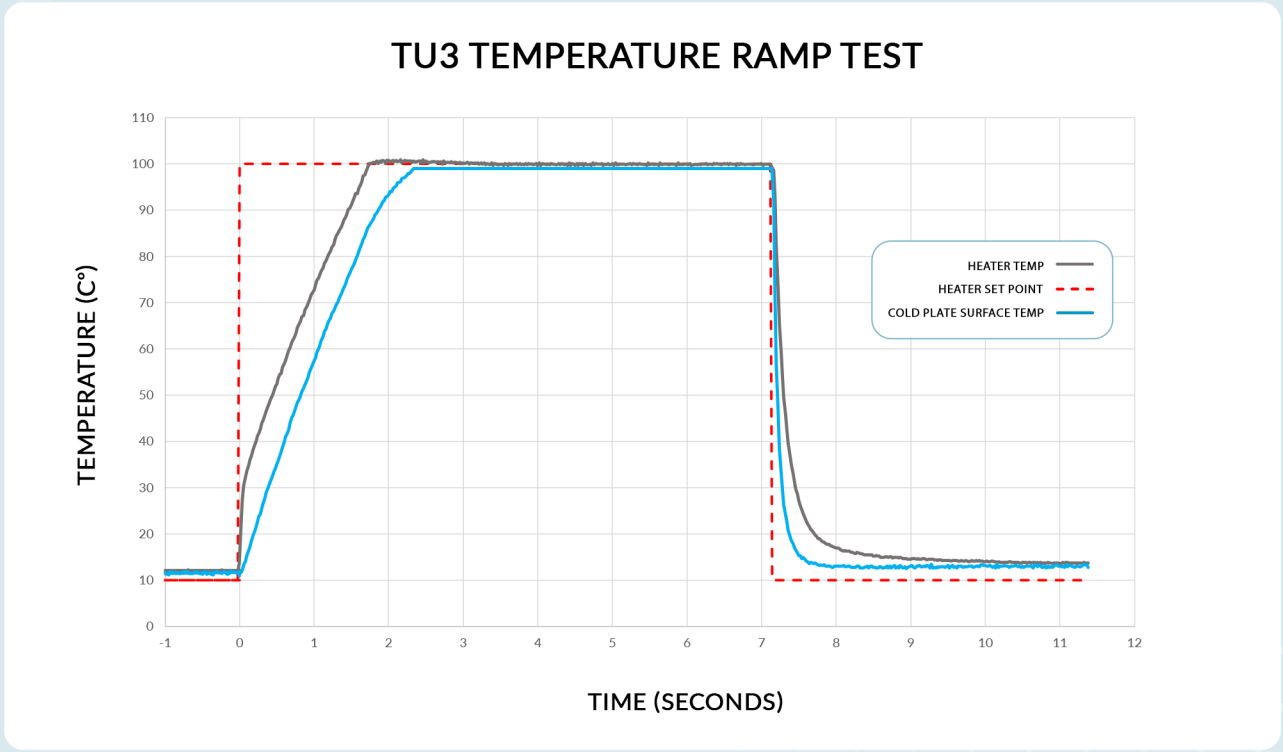
- 120-240 VAC, SINGLE PHASE

PRESSURE/FLOW

- CHILLER WITH PUMP CAPABLE OF 1.2 LPM @ 40 PSI

CUSTOMIZATION

- COMMUNICATION
- USB SERIAL ANALOG IO
- ADAPTABLE TO A WIDE VARIETY OF HANLDERS



Thermal Head (Front)

Controller

Thermal Head (Back)

Would you like to implement this into your test system?

Follow us on the web www.mikrostechnologies.com for more information about this sytem. Still have questions and want to learn more? Email us at info@mikros.net.

For a digital version scan here:

version 1.01