MicroCure® 2100

The Lambda Technologies MicroCure 2100 is designed around the unique Variable Frequency Microwave process technique for the selective, rapid, and uniform procesing of materials.

VFM processing has several specific advantages over other technologies:

- *Rapid and selective heating when compared to conventional ovens*
- *Uniform energy distribution*
- *Precise Process cycle control*
- *Rapid sweep over controlled bandwidth allows processing of electronics packaging assemblies without arcing and circuit damage*

System operating features include:

- *Automated cycle control and data acquisition*
- *Pre-set process parameters, programmable for product type and quantity*
- *User-defined profiling event cycles*
- *Characterization routines for materials/process optimization*
- *IR Temp Monitoring System for closed loop feed back*
- *Auto Ramp Software for Ramp Rate Control*

Accessories and Options

- *4 channel Fiber Optic Temp monitoring*
- *Cavity exhaust systems*
- *Microwave compatible specialized carriers and fixtures*

Applications

- *Industrial bonding/processing*
- *Flip chip*
- *COB (Chip On Board)*
- *MCM assembly*
- *Semiconductors*
- *Fiber Optics Component Assembly*
- *Structural Bonding*
- *Smart Cards/RFID Tag*

Technical Specifications

Microwave Power:	400, 700 Watts
Frequency Range:	5.8 to 7.0 GHz
Sweep Rate Adjust:	0.1 to 60 seconds
Temperature Control:	IR, non-contact, to 385°C
Temperature Monitor:	Up to 4 channels, to 265°C
Cavity Size:	14” H x 15” W x 19” D
Dimensions:	69” H x 23” W x 30” D
Weight:	550 lbs/250kg

Technical Support

As a part of the technical support for the MicroCure 2100, Lambda offers process development and optimization assistance, including process trials in our application laboratory.

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