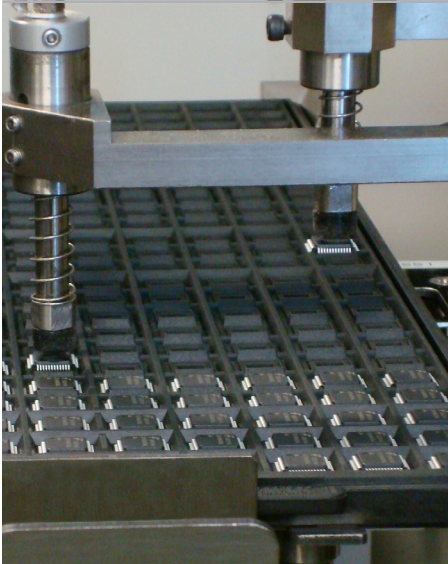


CADEKA In-House Services



CADEKA's In-House Custom Thin Film Manufacturing and Semiconductor Test Services

CADEKA specializes in thin film processing with more than fifteen years experience. All assembly and testing of hybrids is performed in a Class 10,000 clean room environment. Considered a "clean" manufacturing operation, no special permits or equipment are required to monitor or scrub waste products released into wastewater or exhaust systems.

All equipment, fixturing, test capabilities, and technical expertise developed in-house for assembly and testing of Comlinear hybrids has been retained and has transferred to CADEKA.

Services Provided

- Build to print hybrids
- Custom thin film manufacturing
- Microcircuit assembly
- Enhanced environmental screening
- Enhanced reliability services
- Qualification/reliability testing
- Test services - DC to 3GHz
- Third party auditing
- Custom microcircuit design
- Calibration

Standard Manufacturing Flow

- In-house fabrication of thin-film
- Wire bond circuit on alumina substrate
- 1 mil gold wire
- Passive trim (0.1% tolerance resistors)
- Thermo-sonic ball bonding
- Hughes 2460-II auto wire bonder
- Epoxy die attach using Ablestik epoxy and Hughes 2500-11 die bonders
- Active trim/pre-seal test
- DC to 3GHz RF & Mixed Signal Test
- Pre-wire bond plasma clean
- YAG lasers clean (Ar/O2)

Sealing and Screening Options

- Parallel resistance welding (hermetic)
- Constant acceleration
- Projection welding (hermetic)
- Fine leak
- PIND test
- Gross leak
- Epoxy seal
- Solder dip leads
- Thermal shock
- Package mark
- Burn-in

Analog/Digital/Mixed Signal Test Platforms

Manufacturer	Model	Type
Custom #1	DC-to-3GHz and mixed signal test systems	RF
Custom #2		RF
Custom #3		RF
Custom #4		A/D, D/A
EPRO	500	Linear
HP	9473	Linear
HP	9494	Mixed Signal
LTX	TS88/DX90	Mixed Signal
Teradyne	A570	Mixed Signal
Trillium	Array Master	Mixed Signal



Auto Handlers

- Electroglas EG2001 wafer probe station
- Advantek TR1400 pick-and-place
- MCE Electronics TES 8653D pick-and-place
- Exatron 5000 (2)
- ASECO S132

For additional information regarding our products and services, please visit the CADEKA at: cadeka.com