



Micross is a leading manufacturer of RF and Microwave surface mount semiconductor components and hybrids, for space, aerospace & defense applications, with over 20 years of space heritage and zero flight failures!



HI-REL RF AND MICROWAVE CUSTOM & COTS MICROELECTRONICS

Custom & COTS Single and Multi-Function Devices

Accelerate time-to-market utilizing our extensive library of standard SMT RF components and hybrids built on qualified, proven functional blocks and devices following the guidelines of: EEE-INST-002; MIL-PRF-38534; MIL-PRF-38535; All equivalent intl. docs, or an SCD

SWaP Optimized RF/ μ W through 40+ GHz

Synthesized multi-layer semiconductor package designs reduce size, weight and power dissipation – critical for space and aerospace applications, from DC to Ka band

Minimize Risk & Costs

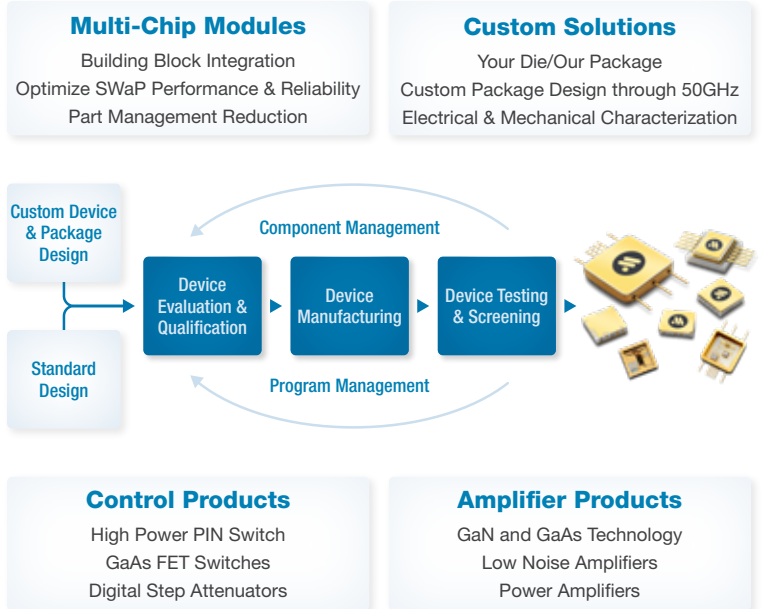
By managing the device qualification process at the module level, the additional risks and costs associate with procuring & qualifying multiple components are eliminated. Documentation already in place.

Switches: GaAs, PIN, SPST through SP8T available with driver

Amplifiers: LNAs, Driver Amplifiers, & Power Amplifiers in GaAs or GaN

Attenuators: WAs or DSAs with or without driver

Frequency Conversion: Vector Modulators, Frequency Multipliers



At the Forefront of New Frontiers... 20+ Years of Flawless Performance in Space



GPS III • MSP BLOCK III • KH-5 ARGON • WGS

End-to-End Hi-Rel RF & Microwave Microelectronics

Product Design

- Circuit Analysis
- Thermal Analysis
- Risk Mitigation Study
- Component De-rating

Package Design

- Schematic Capture
- Package Modeling
- Multi-Layer Leaded/Leadless

Device Manufacturing

- Microelectronic Assembly
- Device Screening

Device Testing

- Small Signal Testing
- Large Signal Testing
- Data Recording
- Fixture De-embedding

Device Qualification

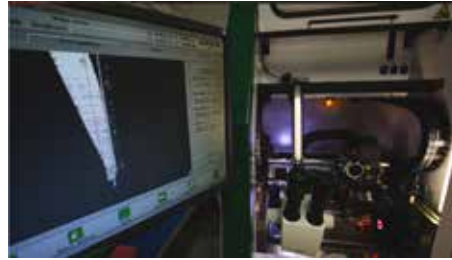
- Life Testing
- Destructive Physical Test
- Residual Gas Analysis
- Radiation Testing

Program Management

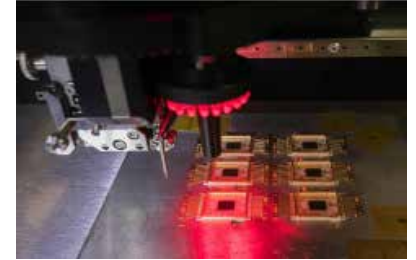
- Counterfeit Mitigation
- EOL/Obsolescence
- Customer Design Review
- Project Management



Design Specialist in GaN/GaAs Custom Solutions



Manufacture 10,000 ft², AS9100 & ISO9001 Certified Facility

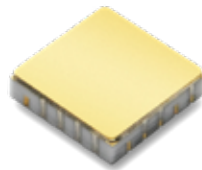


Device Qualification 100% Tested to MIL-PRF Class S

SINGLE CHIP MICROCIRCUITS

MIL-PRF-38535 Class B and S

- WLAT
- 100% Screening (MIL-STD-883)
- QCI Groups A, B, C, D
- Radiation and ESD Testing
- Frequency Range: DC-50GHz



GaAs/GaN MMIC

- Control Products
- Amplifier Products

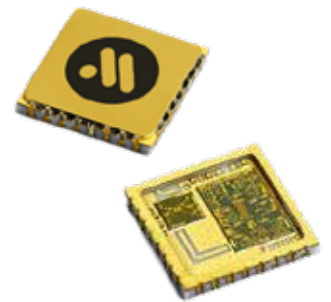
Includes:

- Configuration Control
- Lot Traceability
- Serialization
- DC and RF Test Data
- Temperature Performance
- Final Test Report

HYBRID MULTI-CHIP MODULES

MIL-PRF-38535 Class H and K

- Design Review
- Element Evaluation
- 100% Screening (MIL-STD-883)
- QCI Groups A, B, C, D
- Radiation & ESD Testing (if reqd)
- DC-40GHz

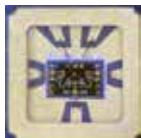


GaAs/GaN MMIC

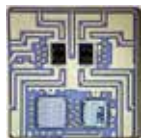
- Control Products
- Amplifier Products
- Driver Products

Includes:

- Configuration Control
- Lot Traceability
- Serialization
- RF Test Data
- Temperature Performance
- Final Test Report



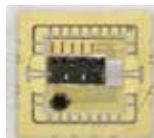
RF Switches SPST/SPDT/SP4T/SP8T



RF Switches with Integrated Driver



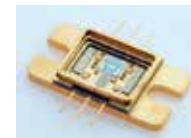
Digital Step Attenuator



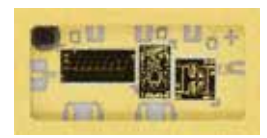
LNA's/Drivers



GaN PA with Matching



MMIC Based GaN PA



Vector Modulators

Need Information?

- Quote Request: micross.com/quotes
- General Requests: micross.com/info
- Technical Support: micross.com/tech-support