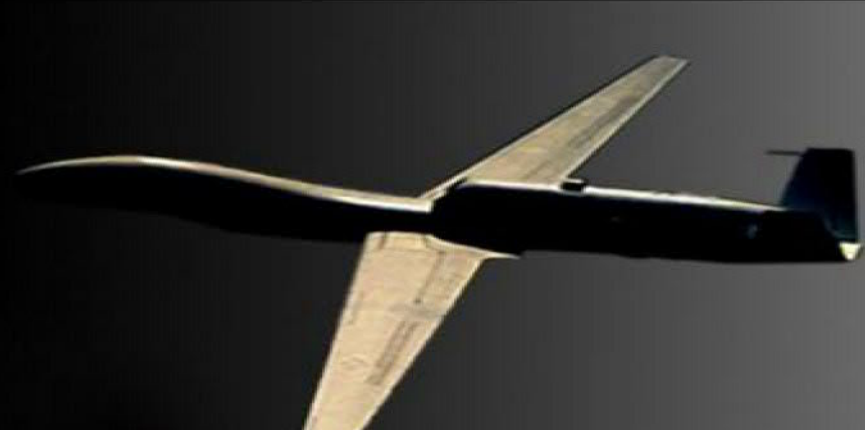


MD

MICROWAVE DYNAMICS

WORLD LEADER IN MICROWAVE AND MM-WAVE COMPONENTS

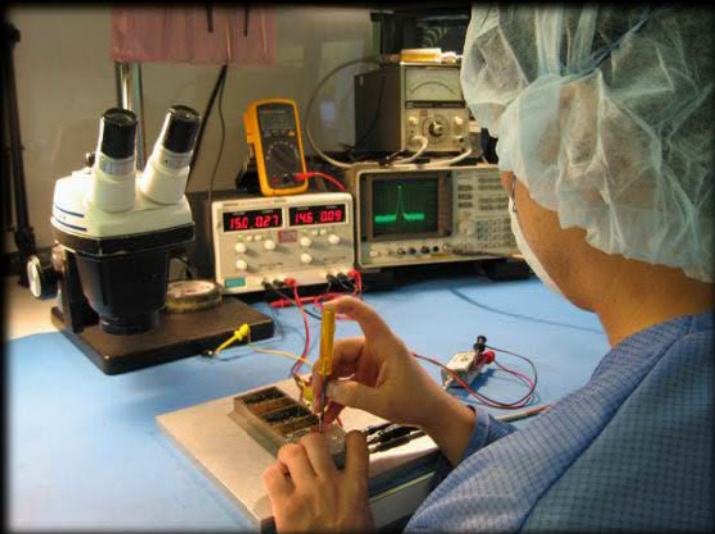


ABOUT US

- Incorporated in 1993
- 100% U.S. Made
- SBA Small Business Certified
- ISO 9001:2008 and EN/JISQ/AS9100:2009 CERTIFIED (March 2013)
- ITAR Certified
- Design, engineering & manufacturing in U.S. facility
- Hybrid/discrete assembly & full test & measurement systems
- Full Documentation Control & Quality Assurance Systems
- 10,000 ft² facility
- 10k & 100k lab
- Solo Source Military and Space Supplier
- 48 Hour Delivery on STD catalog items
- Rapid turnaround R&D and excellent customer service on customized products



OUR TEAM



SPACE

- AURA Satellite
- COMSAT
- Uplink / Downlink
- Ku / K / Ka bands
- mmW applications
- Extremely high-reliability parts, assembly processes, and quality tests (acceleration, temperature, shock, etc.)





DEFENSE / MILITARY

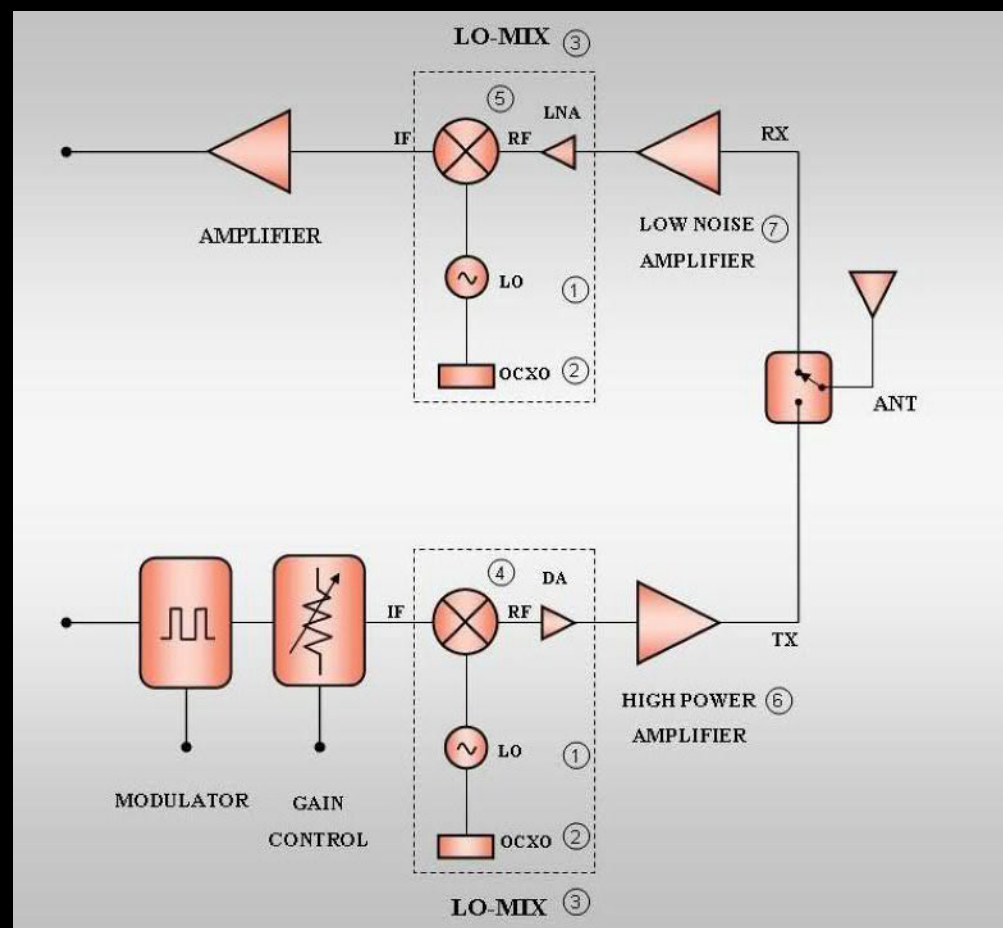
- Sole-source supplier for F-22 Raptor
- U-2 Planes
- UAVs
- Radars
- Missile Guidance
- Rockets
- Navy Communications
- Air Force Simulations
- Target Deterrent Simulators
- Frequency Jammers
- Frequency Converters
- Point to Point Relays
- Satellites



F-22 Raptors

COMMERCIAL

- Satellite Communications
- Cable TV Links
- Local Area Networks
- Global Positioning Systems (GPS)
- Test Equipments
- Point to Point Links
- Up/Down Converters
- Transmitter & Receivers
- Low Power Radar Test Transmitters
- Digital Radios
- Fiber Optics
- X-Band & K-Band Radiometer
- Test Beacons & Doppler Transceivers
- Transceiver



Typical Transceiver using MD parts

SPACE / HI-REL



Our Heritage

MD has been providing components to the space industry since 2004. MD performs assembly, testing, screening and qualification testing for microwave components and subsystems based on (MIL SPEC) military specifications and according to Hi-Rel standards according to MIL-PRF-38535, MIL-STD-202, MIL-STD-883, MIL-STD-750, MIL-STD-810, MIL-Q-9858, MIL-STD-19500, MIL-I-45208.

Equivalent screening to MIL-PRF-38534 Class H and K, and NASA Programs.

In 2013 MD was awarded the **AS9100:2009 Aerospace Standard Certification** by DNV (Det Norske Veritas) Certification, Inc. as of March 26, 2013. This certification signifies that the sole MD facility in Irvine, CA complies with all requirements of the AS9100 quality management system, ensuring quality assurance in design, new production introduction (NPI), manufacturing and servicing. MD passed audit....

MD space projects include AURA Satellite, Dual-Redundant Space DRO's,,

SPACE / HI-REL

Our Capabilities

Models

Screening

- Element of Evaluation, Group A,B,C and D
- Assembly and 100% Screening
- Qualification Testing

Testing

- DC and RF Parameters

Program Management

AS9100:2008 Qualified Quality System



SPACE / HI-REL



AURA Satellite

In 2004, MD supplied space qualified microwave oscillators PLO-2000 (at 10.7 GHz, 14.95 GHz and 15.96 GHz) to support one of the four measuring instruments, the Microwave Limb Sounder (MLS) on the AURA Satellite. MLS was spearheaded by JPL and is used to measure radiation in the GHz and THz frequency ranges (millimeter and sub-millimeter wavelengths) to remotely sense atmospheric data.

AURA Satellite is still in orbit and celebrated its 10 year anniversary last year in 2014. The PLDRO's and system are still functioning well, far beyond the expected life-span of five years.

"The following is what I was able to learn about the status of the PLDROs on Aura. It sounds like they are continuing to function well. I'll see if I can get some information from Dominick Miller on the oscillator control voltages as it will be interesting to see if they have drifted significantly over 10 years of operation in orbit.

I hope this helps.

Regards,

Mike Tope"



SPACE / HI-REL

Dual-Redundant Space Qualified DROs

MD teamed with Orbital Sciences to provide space-qualified Dual-Redundant DROs for military use.



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