

## RF / mmWave Solutions



- ◆ Analog, mixed-signal silicon ASICs & RFICs and advanced GaAs and GaN MMICs and modules
- ◆ Over 50 Catalog MMIC Products—Die, SMT & Modules
- ◆ High Performance MMIC Filters
- ◆ UWB RFICs, WiFi7 & X-Band FEMs
- ◆ LIDAR AFEs, TIAs, Laser Drivers, CDRs, PFDs
- ◆ OTA Test Subsystems for Radar/Comms



- ◆ 25 year+ legacy in designing and manufacturing application specific / custom build to spec for defense systems globally
- ◆ Pallet/Modules to Rack/Bench Unit assemblies and combined Rack Units into extremely high output power solutions
- ◆ Low Noise/High Dynamic Range, Driver and Medium Power, High Power HPA's and Signal Conditioning solutions



- ◆ Ultra-Low Phase Noise, Low-G Sensitivity, High Stability
- ◆ Precision Crystal Oscillators, OCXO, TCXO, VCXO, XO
- ◆ Frequency Modules and Custom Designs
- ◆ Crystal Filters and Precision Quartz Crystals



- ◆ Filter Technologies covering 10 MHz thru 40 GHz
- ◆ Lumped element, ceramic resonator, cavity
- ◆ Distributed element (microstrip, stripline, SIW)
- ◆ Suspended substrate



- ◆ Waveguide Assemblies—Flexible and Rigid for Military, Aerospace and commercial applications
- ◆ Couplers, Rotary Joints, Terminations, and Components



- ◆ Advanced metallized ceramic circuits, substrates, components & packaging
- ◆ Al<sub>2</sub>O<sub>3</sub>, AlN, BeO, Si<sub>3</sub>N<sub>4</sub>, & other materials using Active Metal Braze, Direct Bond Copper, Thick Film
- ◆ Ideal for thermal challenges of HPSP, optoelectronics, semiconductor manufacturing systems, others
- ◆ Design-built, build-to-print, USA-based

## Electromechanical / System Solutions



- ◆ Leader in Flat Cable Technology, custom manufacturer of extruded FlexxSil™ cables for ultra-high flex & extreme environments & temperature
- ◆ Flexible flat cables and assemblies for high performance motion, aerospace, military, medical and semiconductor manufacturing applications.
- ◆ Capable of millions of flex cycles.



- ◆ Rackmount & rugged systems for defense & aerospace
- ◆ OpenVPX, 3U & 6U chassis, backplanes and accessories
- ◆ High-performance MOSA backplanes based on VITA standards, including OpenVPX, VNX+, VITA 100 & SOSA-aligned configs
- ◆ Air, conduction and liquid cooled designs for harsh environments
- ◆ Enclosure solutions compatible with NI USRP™ SDRs (X, E, N, B series) with custom configurations available upon request

## Optical Solutions



- ◆ Microwave Transmitters, Receivers, Lasers and Photodiodes
- ◆ Fiber Optic Delay Lines and RF Fiber Optic Links up to 60 GHz
- ◆ Micro Erbium Doped Fiber Amplifiers (EDFA)

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## Test & Measurement Solutions



[www.w5engineering.com](http://www.w5engineering.com)

*Your Vision. Our Expertise. Your Success.*

- ◆ Value-Added Distributor—industry-leading programmable power, electrodynamic shakers & controllers, DAQ, sensors, and advanced T&M equipment
- ◆ Systems Integration & Turnkey Test Solutions—integrated rack systems to combine power, vibration, controls & data acquisition into ready-to-deploy test platforms
- ◆ Hardware & Software Development—to unify programmable power, test equipment, and data acquisition systems & sensors
- ◆ Engineering Services & Field Support—consultation, installation, commissioning & field service

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