

Professional Engineering Representatives Bringing Technology Solutions to our Customers

RF / mmWave Solutions



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



www.GwayRF.com/



www.herotek.com



www.jfwindustries.com



www.kvg-gmbh.de/en



www.larkengineering.com

- MMICs and modules

- **PFDs**
- ♦ 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
 - Detectors and Limiters
 - **Comb Generators**
 - GaAsFet Amplifiers (Broadband, Low Noise, and Power)
 - Down converters, Multipliers, Harmonic mixers, and Transceivers
 - Specialists in Attenuators and RF Switching
 - Passive RF Components—Terminations, Mismatches, Power Dividers, Combiners
 - **Test Systems and Accessories**
 - ♦ Matrix Switches, 50 ohm, up to 40GHz,
 - Ultra-Low Phase Noise, Low-G Sensitivity, High Stability
 - Precision Crystal Oscillators, OCXO, TCXO, VCXÓ, XO
 - **Frequency Modules and Custom** Designs
 - **Crystal Filters and Precision Quartz** Crystals
 - Single Function (SFA) Filters/ Multiplexers, Switches, Switch Filters, Filter Amplifiers, Power Amplifiers
 - Integrated Microwave (IMA) Up/Down Converters, RCVRs and XCVRs (UHF to W-Band), T/R Modules
 - Multi-Function (MFA) LRU's, SRA's
 - ♦ High Speed Circuit and Substrate

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MICRO-COAX(((AN AMPHENOL COMPANY

www.micro-coax.com

- ♦ High Frequency Low Loss UtiFlex Cable with Superior Stability Performance -Space Grade options with Heritage
- ◆ Ultra-flexible stable RF cables –withstand up to to 20 Million Cycles
- Aracon Lightweight Braid Material with Superior strength and **Shielding Performance**
- High Performance RF Test Cables to 110 GHz



www.microtech-inc.com

- Waveguide Assemblies—Flexible and Rigid for Military and Aerospace as well as commercial applications
- Couplers, Rotary Joints, Terminations, and Components
 - **SMT Coaxial Microstrip or Stripline** Ferrite Isolators & Circulators covering 40MHz to 40GHz, Power 4KW and 120% BW – RFI specs to -100dBc & better
 - Combiners, Couplers, Dividers and
 - Space-qualified products
 - Millimeter wave Components and Subsystems from 5GHz to 140GHz
 - Mixers, Low Noise Amplifiers, Frequency Multipliers, Gunn and DRO Oscillators, Isolators, Circulators, PIN Switch Assemblies, Attenuators, Detectors, Multipliers, Upconverters, SATCOM, Communication and Radar Systems.





www.rsmicro.com

- High quality RF and MW filters—1 MHz to 50 GHz Military and Commercial Comms, Radar, ECM, and Cellular
- Filters with wide passbands and stopbands (1-4 GHz passband, stopband to 20 GHz, 1KW operation)
- Unique products: In-line bandpass filters with finite transmission zeroes, reduced size & wide band high power filters



www.thunderlinez.com

- Leading Manufacturer of Standard and Custom RF and DC Feedthrus
- Solder Sealed Hermetic Aluminum **Packages**
- **Direct Fired Kovar and Microwave Hermetic Packages**
- Laser Sealing Services, Lidding and Component Installation
 - PhaseTrack Flexible and Semi-Rigid Cable- Phase critical -TF4 dielectric
 - Si02 Assemblies for Phase stability and extreme temperature environments
 - Miltech assemblies rugged, low-loss 40 GHz, vapor-sealed, braided Nomex outer jacket with high density interconnect options
- TLx Series Push-on and Blind Mate High **Power Interconnect Series**
- Radiation Resistant, Light-weight low out-gassing assemblies to 40 GHz for Spaceflight and Ground test



www.timesmicrowave.com



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Optical Solutions



- Optical transceivers at 1-28 Gbps
- Interconnect platform of rugged termini and MIL connectors for custom cable builds
- Avionics-focused optical & networking test equipment
- High performance rugged custom optical subassemblies & packaging



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

Electromechanical Solutions



www.cicoil.com

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



- www.pixustechnologies.com
- Rackmount & Rugged Systems
- OpenVPX, 3U-6U chassis, boards, backplanes and accessories
- High-speed architecture backplane and board profiles per VITA 65 (VITA 65.0 & 65.1) Extension to VITA 46 to ensure compatibility



www.conexsmart.com

- Custom cable assemblies, wire harnesses and electro-mechanical assemblies.
- Comprehensive services including contract manufacturing, prototyping, production kitting, system integration, and industrial 3D printing.
- Responsive and Mobile On-Site Support (RAMONA) for rapid harness fabrication, installation, and field modifications.

Test and Measurement Solutions



www.corelis.com

- Software tools using 1149.1 (JTAG) for PCB functional testing, debugging, and in-system programming of Flash memory, CPLDs, and FPGAs
- ◆ Device Anti-counterfeiting software
- Serial bus analyzer and exerciser products (SPI, I2C, etc)



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- ◆ 150, 200 and 300mm Manual, Semi-Auto, and Full-Auto
- ◆ DC and RF (up to THz) Probing
- ♦ Vacuum and Cryo Probe Stations
- Power Systems, up to 10kV



www.focus-microwaves.com

- Wideband fundamental and Harmonic Load Pull Tuners
- Pulsed IV/RF Characterization System delivers unparalleled performance
- Wideband noise parameters extraction
- **♦** Behavioral Modeling



www.in-phasetech.com

- ♦ Extension of your Test Engineering
- ATE System Design and Development—Expertise in RF, Microwave and Fiber Optic Technologies
- ♦ ITA's and Test Fixtures
- Build to Print Services—Test Software—LabVIEW and TestStand

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