

## RF / mmWave Solutions



www.exoduscomm.com

- ◆ SSPA products feature LDMOS, GaN, GaAsFET discrete and Chip & Wire Hybrid technologies up to 50GHz
- ◆ Medium Power and Low Noise Amplifiers feature GaAsFET, GaN, and Chip & Wire technologies up to 51GHz



www.herotek.com

- ◆ Detectors and Limiters
- ◆ Comb Generators
- ◆ GaAsFet Amplifiers (Broadband, Low Noise, and Power)
- ◆ Down converters, Multipliers, Harmonic mixers, and Transceivers



www.jfwindustries.com

- ◆ 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,



a Benchmark company

www.larkengineering.com

- ◆ 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 Design and Fab (LCP)



www.microtech-inc.com

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



www.rec-usa.com

- ◆ 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 Mixers
- ◆ 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 assemblies – Phase critical - TF4 and SiO2 dielectric
- ◆ Miltech assemblies – rugged, low-loss 40 GHz, vapor-sealed, braided Nomex outer jacket with high density interconnect options
- ◆ Radiation Resistant, Light-weight low out-gassing assemblies to 40 GHz for Spaceflight and Ground test
- ◆ T&M - Silverline, up to 110 GHz (VNA), phase and loss stable, Clarity Series provides industry-leading performance up to 67 GHz



www.timesmicrowave.com

## Optical Solutions



www.cotsworks.com

- ◆ 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



www.ortel.com

- ◆ RF/MMW over fiber up to 60 GHz + Band Specific Links
- ◆ Unsurpassed SFDR, NF, OIP3 performance
- ◆ Integral Pre/Post RF Amp Options
- ◆ Fiber Optic Delay Lines
- ◆ Stand Alone, 6 slot 1U, 16 slot 3U platforms

## Electromechanical Solutions



[www.cicoil.com](http://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.diamondroll-ring.com](http://www.diamondroll-ring.com)

- ◆ Maintenance-Free Long Life slip ring solution for mission-critical aerospace, defense, industrial and space applications worldwide
- ◆ High Current Handling with Low Signal Noise and High Data Transfer Rates
- ◆ Very Low Torque, Shock Resistant, High Rotational Speed, High Transfer Efficiency

## Test and Measurement Solutions



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



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

- ◆ 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](http://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](http://www.in-phasetech.com)

- ◆ Extension of your Test Engineering
- ◆ ATE System Design and Development—Expertise in RF, Microwave and Fiber Optic Technologies
- ◆ High Performance Microwave Fiber Optic Delay Lines (FODL) for Radar Applications (400uS/40GHz)
- ◆ ITA's and Test Fixtures
- ◆ Build to Print Services—Test Software—LabVIEW and TestStand Certified Engineers

## Board Level / Embedded Solutions



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

- ◆ Leading producer of high-reliability passive components for use in military, aerospace and medical electronic devices
- ◆ Hi-Rel Fuses, Hi-Rel Ferrite Chips, Hi-Rel Chip Resistors
- ◆ Tin Whisker Mitigation—Aerospace-qualified tin/lead (Sn/Pb) conversion process



Quartz Crystal Technology GmbH

[www.kvg-gmbh.de/en](http://www.kvg-gmbh.de/en)

- ◆ 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

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