

## RF / mmWave Solutions



- ◆ 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



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



- ◆ 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



- ◆ 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)



- ◆ 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 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.



- ◆ 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



- ◆ 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

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## Electromechanical / System Solutions



ACT Now for Superior Power  
[www.actpower.com](http://www.actpower.com)

- ◆ AC-DC, COTS, DC-DC Power Supplies
- ◆ MILITARY Grade Aerospace (MIL-STD-704), Shipboard (1399), Ground (1275), Comms, 810, 461 and MIL-S-901
- ◆ Up to 35,000 VDC; Single/3 phase power factor conversion—power factor 0.99 and THD of <3%



[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



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

- ◆ Leader in Flat Cable Technology, custom manufacturer of extruded FlexSil™ 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.

- ◆ General purpose processing, I/O processing (including FPGA-based) cards
- ◆ Technology building blocks for computing infrastructure and payload processing requirements
- ◆ Form Factors—MicroTCA/AMC, VPX, PCI Express, FMC/XMD



## 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.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.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

## Optical Solutions



[www.cotsworks.com](http://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](http://www.ortel.com)

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