

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



www.herotek.com

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



Quartz Crystal Technology GmbH

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



www.GwayRF.com/

- ◆ 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



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)

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 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



www.remtec.com

- ◆ Advanced metallized ceramic circuits, substrates, components & packaging
- ◆ Al₂O₃, AlN, BeO, Si₃N₄, & 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

RS MICROWAVE COMPANY, INC.

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.timesmicrowave.com

- ◆ PhaseTrack Flexible and Semi-Rigid Cable—Phase critical -TF4 dielectric
- ◆ SiO₂ 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

Patrick Condron

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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

ORTEL[®]
A Photonics Foundries Enterprise
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



ACT Now for Superior Power
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.cicoil.com

- ◆ 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.



www.pixustechologies.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

Test and Measurement Solutions



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- ◆ Device Anti-counterfeiting software
- ◆ Serial bus analyzer and exerciser products (SPI, I2C, etc)



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



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

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