

## RF / mmWave Solutions



- ◆ Amplifiers / Miniature Tuners
- ◆ Chip-scale Analog tunable Filters and Filter Banks
- ◆ Modules and Custom Products Down converters, Multipliers, Harmonic mixers, and Transceivers



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



- ◆ 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



- ◆ 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.



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



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



- ◆ 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.timesmicrowave.com

- ◆ 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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## Optical Solutions



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



www.in-phasetech.com

- ◆ High Performance Microwave Fiber Optic Delay Lines (FODL) for Radar Applications (400uS/40GHz)
- ◆ Air Interface Testing, bringing the Test Range to the Bench
- ◆ Low Loss Ground to Antenna Tower Top Link
- ◆ 5G Radio Test Set

## Electromechanical Solutions



- ◆ 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.iec-electronics.com

- ◆ Military specification cable assemblies and harnesses
- ◆ Complex mechanical, electromechanical, and PCBA
- ◆ Precision Metalworking & engineering services
- ◆ On-site DLA QTSL testing lab and offers the full spectrum of DPA testing per military standards



Most accurate, rugged and reliable sensors available flown on nearly all major aircraft engines and programs

- ◆ Temperature Sensors
- ◆ Pressure Sensors / Switches
- ◆ Fuel Gauging Systems
- ◆ Speed Sensors
- ◆ Accelerometers
- ◆ Level Sensors
- ◆ Fuel Flowmeters
- ◆ LVDT's



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

## Test and Measurement Solutions



- ◆ 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.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



- ◆ 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.thinkrf.com

- ◆ Network and Deployable Small Form Factor Spectrum Analyzers—5G, SIGINIT, TSCM
- ◆ Software Defined Real-Time Spectrum Analysis up to 27 GHz, 100 MHz real-time BW
- ◆ E300 Enabler for Keysight 89600 VSA Complete Vector Signal Analysis
- ◆ Downconverters/tuners for 5G



- ◆ Non-contact, optical, multi-sensor profilometers
- ◆ Modular, future upgradeable systems
- ◆ High resolution, fast and accurate measurements
- ◆ Measurement of topography, shape, roughness and thickness



- ◆ Precision Cryogenic Instruments
- ◆ Cryogenic Chip-scale Probe Stations
- ◆ Adiabatic Demagnetization Refrigerators (ADR)
- ◆ Fully Automated Scanning SQUID Microscope

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