

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



- ◆ Miniature and ruggedized RF power amplifier modules
- ◆ Solid-state RF & microwave bidirectional amplifiers for demanding SWaP applications
- ◆ High Linearity and range extension with specific vendor Radio Compatibility
- ◆ Cybersecurity – Avionic Data Bus Protection



- ◆ 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)



- ◆ 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



- ◆ 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



- ◆ 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 up to 60 GHz
- ◆ Micro Erbium Doped Fiber Amplifiers (EDFA)

Electromechanical Solutions



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- ◆ 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%



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- ◆ Engineering services including full product design
- ◆ Box build and PCBA services of military products
- ◆ Dedicated NPI PCBA lines for quick turn prototypes
- ◆ Custom Functional Test Design
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- ◆ Precision Metalworking
- ◆ On-site DLA QTSL testing lab and offers the full spectrum of DPA testing per military standards



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- ◆ COTS & MIL Rugged Rackmount & ATR Chassis Platforms
- ◆ OpenVPX, SOSA-aligned 3U and 6U chassis platforms, backplanes and accessories
- ◆ Latest high-speed designs including various SOSA-aligned, VITA 66/67 optical & RF interfaces

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



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- ◆ Modular, future upgradeable systems
- ◆ High resolution, fast and accurate measurements
- ◆ Measurement of topography, shape, roughness and thickness



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- ◆ DC and RF (up to THz) Probing
- ◆ Vacuum and Cryo Probe Stations
- ◆ Power Systems, up to 10kV



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- ◆ 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