

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



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



- ◆ 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.



- ◆ 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

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- ◆ 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

Optical Solutions

emcore
www.emcore.com

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

In-Phase Technologies, Inc.
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

ACT Advanced Conversion Technology
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IEC Electronics
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- ◆ 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

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| | ◆ Fuel Flowmeters |
| | ◆ LVDT's |

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- ◆ 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
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