

## 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



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



- ◆ 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



- ◆ 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

## 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)



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

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## Electromechanical Solutions



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Conversion  
Technology

ACT Now for Superior Power  
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- ◆ Rackmount & Rugged Systems
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## Test and Measurement Solutions

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- ◆ Software tools using 1149.1 (JTAG) for PCB functional testing, debugging, and in-system programming of Flash memory, CPLDs, and FPGAs
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- ◆ Serial bus analyzer and exerciser products (SPI, I2C, etc)



[hpd-online.com](http://hpd-online.com)

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



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- ◆ 150, 200 and 300mm Manual, Semi-Auto, and Full-Auto
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- ◆ Vacuum and Cryo Probe Stations
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- ◆ Extension of your Test Engineering
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- ◆ Measurement of topography, shape, roughness and thickness



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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

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