



RF & Microwave MMICs

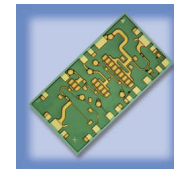
www.mimixbroadband.com

Mimix Broadband, Inc. designs, develops and markets high performance monolithic microwave integrated circuits (MMICs) for RF and millimeter-wave applications. Mimix has assembled a team of world-class MMIC designers that has focused on the development of state-of-the-art RF and millimeter-wave MMICs .

- Low noise , Distributed , Buffer and Power amplifier up to 44GHz and to 1 Watt
- Complex receivers and transmitters , VCO , Prescaler , Divider Mixer and Multiplier
- Phase Array MMIC
- Power Amplifier X , Ku , Ka Band

Celeritek was founded in 1984 by a small group that came out of Avantek . Since 1984, Celeritek has had a gallium arsenide (GaAs) Foundry which supplied FETs and MMIC's like :

- 50-W Matched HBT Darlington-Pair MMIC Amplifiers to 8 GHz
- HBT High Dynamic Range MMIC Amplifiers
- MESFET High Dynamic Range MMIC Amplifiers
- Low Noise , Medium and High Power GaAs FETs
- High Power Packaged InGaP HBTs
- 2-12 ; 2-20 ; 6-18 GHz MMIC Amplifier Chips
- Ku-Band Power Amplifier Modules and Chips
- 2-4 GHz Packaged Amplifier RFICs
- WiMax Amplifier



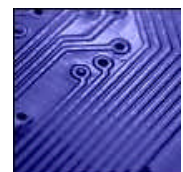
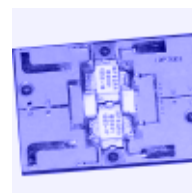
RF & Microwave Laminates

www.taconic-add.com

Taconic manufactures microwave laminates with uniform thickness profiles, precise dielectric constants, and consistently low dissipation factors throughout the entire sheet. The exceptionally low loss factors extend the usefulness of these Taconic laminates to X-Band and above. A Certificate of Compliance containing actual test data accompanies each shipment.

Taconic RF laminates can be sheared, drilled, milled, plated and routed, using the accepted methods for PTFE/woven fiberglass laminates. Taconic laminates are dimensionally stable and are resistant to the process solution used during fabrication. Taconic has RF, microwave, high-speed digital & mechanical solutions for all applications.

- RF/ Microwave ,
- Antenna , Base station , Power Amplifier , Radio Link , Transmitter , Receiver
- Radar , Guidance System , Telemetry .
- High-speed Digital , Back-panel
- Medical , scanner
- Automotive





www.amlj.com

www.microwavepower.com

AML Communications designs and manufactures high performance amplifier products. AML has extensive experience in design, testing and production of complex amplifiers . AML addresses the microwave and millimeter wave power amplifier market through its , Microwave Power division .

- Low noise , medium power , power , limiting amplifiers 100 MHz to 26.5 GHz to +25 dBm
- Octave and multioctave amplifiers from +8 dBm to +43 dBm (20 Watts)
- Narrow band solid state amplifiers to +57 dBm saturated (500 Watts)
- Very fast drain controlled pulse amplifiers to +57 dBm (500 Watts)
- Millimeter wave amplifiers to 40 GHz and to 40 dBm (10 Watts)



www.ewtfilters.com

Eastern Wireless TeleComm specializes in custom design and manufacture of RF & Microwave Filters and Duplexers for commercial, military, and wireless applications. Products include :

- Cavity & Waveguide filters up to 40 GHz
- Discrete filters up to 6 GHz



www.e-meca.com

MECA Electronics is a global designer and manufacturer of passive products covering market such as in-building applications, satellite communications, radar, radio communications, telemetry applications, mobile radio, aviation & air traffic communications , covering frequency from DC – 26,5GHz.

- Attenuators , terminations , DC Block & Bias Tees , up to 500 Watts
- Power Dividers, 2 to 16 ways, up to 200 watts,
- Directional Coupler & 3dB Hybrid Couplers, up to 1000 Watts



www.ceiswitches.com

Charter Engineering(CEI) is a leading manufacturer of RF Switches. We deliver high quality products for communications, aerospace, defense, aviation, and instrumentation markets. RF & Microwave switches include

- SPDT – SP8T & Transfer switch , DC – 16,5 GHz
- Failsafe , Latching , normally open etc.
- High power , internally Terminated
- Low Intermodulation



www.massbaytech.com

Massachusetts Bay Technologies manufactures high quality silicon RF & Microwave Diodes and Capacitors

- Tuning Varactors , Multiplier /VHF/UHF Hyperabrut
- Beam Lead , Pin , HF Pin/Nip Switching
- Schottky Low , Medium , High Barrier
- Limiter diodes and capacitors



Compex

www.compexcorp.com

Compex is the Specialist in Microwave Ceramic Capacitors for the RF & Microwave field , frequency up to 40GHz

- Single layer capacitors , all the geometry available
- super-high K X7R Single layer capacitors
- Ultra High Q Multilayer capacitors

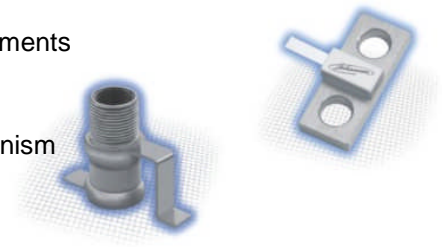


Trimmer Capacitors & Resistive Products

www.johansonmfg.com

Johanson is a world-class supplier of trimmer capacitors and microwave tuning elements

- Trimmer capacitors - Giga-Trim® , Air-Trim - including NonMagnetic
- Microwave tuning elements with self-locking, constant torque drive mechanism
- Resistive Products - resistors & terminations - ALN up to 1000 W



www.innovativepp.com

Innovative Power Products, Inc. has 25 years of experience designing and manufacturing RF Passive Components.

- 90° Hybrid Couplers
- Directional Couplers
- Combiners



www.gigalane.com

High performance RF & Microwave connectivity , Adapters and cable up to 50 GHz

- Connectors N , MCX , MMCX , SMA , SMP , 2.92mm , 2.4mm
- Adapter N , SMA , 2.92mm , 2.4mm
- Cable Flexible , high reliability , phase matched



www.m2global.com

M2 Global Technology, Ltd. is a leading supplier of passive microwave components like :

- RF Circulators and RF Isolators , Coaxial, Drop-In or Waveguide
- Waveguide components
- Frequency range of 380MHz to 40GHz



A to D converters with the Lowest power consumption

www.kenetinc.com

Kenet Inc. is a fabless semiconductor company that is developing innovative, mixed-signal solutions for portable consumer and communications applications. Our FemtoCharge® technology yields a CMOS analog-to-digital converter (ADC) in an extremely small die area. The unprecedented size and power advancements provide longer battery life and increased portability of electronic products.

- 8 ,10 ,12 , 14 Bit up to 500 MSPS
- Input analog bandwidth up to 1 GHz
- Interleaving capability enables , 1 GSPS 14 Bit , 2 GSPS 12 Bit



Enabling RF Semiconductors testing without soldering

www.pisockets.com

www.exatron.com

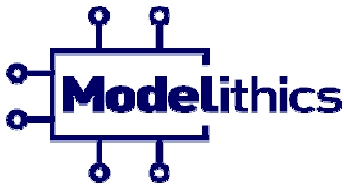
Particle Interconnect (PI) uses metalized coated diamond particles to form a micro "bed of nails" contact. The rough surface created by PI allows for zero lead length interconnect of DUT leads and test board circuits. The resulting contact has a resistance of under 3 milliOhms without contaminations ! Diamond PI contacts are ideally suited for interconnect between surface mount devices and load boards, testers, programmers, as well as other repeat-insertion applications .



www.feko.info

FEKO is used to solve electromagnetic problems such as: antenna placement analysis , shielding, coupling, antenna design, microstrip antennas, and circuits, striplines, dielectric media, scattering analysis , EMC

- Full wave, method of moments MoM
- MoM has been hybridised with physical optics (PO) , uniform theory of diffraction (UTD) and (FEM)
- FEKO includes Multilevel Fast Multipole Method (MLFMM) and Geometrical Optics (GO)



Accurate Passive & Active software Models

www.modelithics.com

Modelithics is the premier provider of high-precision measurements and models for microwave/RF design simulation. We have the experience, equipment, and knowledge to accurately components and build software that enable popular circuit simulation tools to generate more accurate predictions of as-built performance. Simply put, you will move from concept to product faster with Modelilthics models

- accurate software model for Capacitors, Inductance and Transistors
- Linear & Non Linear software model
- Model on Demand , Passive and Active .



Waveguide components with Mode-Matching /FE/MoM/FD

www.mig-germany.com

Fast exact CAD and optimization of waveguide components, coax components, filters, aperture antennas. Based on the new hybrid MM/FE/MoM/FD method, WASP-NET combines the high speed of the analytic mode-matching (MM) method with the flexibility of the space discretization finite-element (FE), method-of-moment (MoM), and finite-difference (FD) techniques. Application :

- **Filters** (waveguide, combline, interdigital, coaxial, dual-mode, evanescent-mode, corrugated, waffel-iron, ridged waveguide, dielectric resonator, folded, cross-coupled filters, etc.)
- Diplexers, Multiplexers , Couplers , Polarizers , Phase Shifters , Ortho-Mode-Transducers , Transformers etc
- Horn Antennas, Horn Clusters, Slot Arrays , Feed-Networks , Hybrid Junctions etc.



www.herley.com

Herley General Microwave Israel

Herley GMI offers a wide range of high performance Control Components , Sources, Synthesizers and integrated assemblies for Warfare (EW) systems , radar warning receiver (RWR), ESM, jamming used in airborne and naval systems and simulator applications.

- Phase shifter from 500 MHz to 18 GHz
- single-pole single-throw (SPST) switches, single-pole multi-throw (SPMT) switches from 0.1-40 GHz
- voltage controlled attenuators (VCAs) and digitally controlled attenuators (DCAs) from 0.1-40 GHz
- VCOs , Digitally Tuned Oscillators (DTOs) from 500 MHz to 18 GHz



Herley Farmingdale

Herley Farmingdale's core technology revolves around complex integrated microwave assemblies for primarily defense aerospace applications. The technological base includes high-performance amplifiers, mixers and filters that are needed to build small, integrated assemblies, required by our customers ,for Military and Commercial Radar, Communications, Electronic Warfare, Surveillance applications.



Herley CTI

Herley-CTI, Inc. covers Microwave and Millimeter wave Sources, Synthesizers and integrated assemblies for Military and Commercial Radar, Communications, Electronic Warfare, Digital Radio and Sat. Com.

- VCOs , DROs , PLDROs , Phase Locked and Millimeter Wave Sources
- Ultra Low Phase Noise Frequency Synthesizers and Fast Switching Direct Synthesizers



Herley Power Amplifier Systems

Herley Power Amplifiers has frequency range capability from 1.5 MHz to 3000 MHz Broad band solid state RF Power Amplifier with power levels from 100W up to multi-kilowatts. Application and Markets are : Defense Communications , Electronic Warfare, Radio Communications , Data Links Telecommunications .



Herley New England

Herley New England designs and manufactures custom microwave products to meet all the requirements for both space and military applications. Products include

- Hybrid Microcircuits
- MIC Products : Attenuators , Phase shifters , switches matrices , multifunction Assemblies
- Waveguide Products : Attenuators , TR Limiters , Solid State Limiters and Switches