

# RF/Microwave LineCard

www.rfdesign.co.za • Tel: 021 555 8400



**ATP(Applied Thin-Film Products)** - is a supplier of various printed thin-film products, including but not limited to, Inductor coils, Microstrip transmission lines, Stand-off/Isolation pads, and ATP Bond Qualification Coupons. ATP has the ability to do, build-to-print circuit services on a large range of materials and metallization schemes, including, fine pitch conductors, hollow plated and solid filled vias, wrap-arounds, polyimide supported bridges, integrated resistors, and more. ATP specializes in products suited for military, aerospace, wireless, fibre-optic, as well as the medical life science markets.



**AXTAL** - focusses on the Design, Development, Production, Testing and Sales of Frequency Control Products and Piezo Sensors, which includes crystal resonators, crystal oscillators, and frequency control modules comprising quartz and other piezoelectric crystal resonators, such as Langasite (LGS), Langatate (LGT) as well as SAW resonators. AXTAL's OCXO for Space applications are listed in the ESA EPPL.



**BSC Filters** - BSC Filters is dedicated to excellence in all aspects of filters and diplexers, specializing in Waveguide, Interdigital, Combine, Cavity, Lumped Element and Microstrip devices. Other components include Couplers, Equalisers, Switched Filter Banks, Transitions and Waveguide Assemblies.



**CML Microcircuits** - As part of CML Microsystems Plc, CML Microcircuits is a world-leader in the design, development and supply of low-power analogue, digital and mixed-signal semiconductors for telecommunications systems globally. The company's wide and varied portfolio means that CML devices are used in an extensive range of industrial and commercial products for licensed and unlicensed wireless voice and data systems.



**Diamond Antenna and Microwave Corporation** - Since 1956, Diamond Antenna and Microwave Corporation has delivered precision microwave rotary couplers for use in radar and satellite communication antennas. Experience with the exacting tolerances necessary for microwave signal transfer is the basis for our core competence in precision rotary component design and manufacture.



**Dow-Key Microwave** - specializes in the design and manufacture of customized, high-performance coaxial switches, waveguide switches, high-reliability (space) switches (including T-switches and switch blocks). As well as switching systems such as RF matrices (electromechanical, solid state, and fiber optics).



**EGIDE** - is a group with an international dimension, specialized in the manufacture of hermetic packages for sensitive electronic components. It operates in cutting edge markets with strong technology barriers to entry in all critical industry segments (Space, Defense, Security, Aeronautics, Telecommunications, Energy, ). Egide Group is the only pure player in this market niche with manufacturing bases in France and the United States.



**EMI Filter Company** - EMI offers non-capacitive feed-throughs and ground points in all the popular threaded and solder-in bodies that we offer in capacitive filters. EMI manufactures bulkhead mounted low pass filters in threaded, solder-in, and press-in styles to the microwave communications industry. EMI Filter Company brought automation and lean manufacturing to filter manufacturing while others in the industry simply moved offshore.



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**Focusimple** - Focusimple is contributing the RF world with high performance millimeter wave and microwave coaxial cables, connectors and cable assemblies up to 110GHz, including ultra flexible, flexible, semi-flexible, semi-rigid coaxial cable for applications e.g test and measurement, radar, cabinet jumper, point-to-point connection, base station, radio station etc.



**Holzworth** - Holzworth Instrumentation provides high performance RF Synthesis and Phase Noise Analysis products. RF synthesizer module designs are based on a proprietary non-PLL architecture that is optimized for stability, switching speed and ultra low phase noise performance.



**International Manufacturing Services, Inc.** - Established in 1974, IMS is a privately held ISO 9001:2008 certified premier provider of thick and thin film passive-resistive products. For over 40 years IMS has been transforming customer drawings into reality. IMS decades of surface mount component experience have resulted in numerous customer adapted solutions.



**K&L Microwave** - part of the Microwave Products Group (MPG), a Dover company, is recognized by top-tier defense contractors and wireless infrastructure providers as a world leader in the design and manufacture of RF and microwave filters, duplexers, and integrated assemblies.



**Knowles Precision Devices** - As a division of Knowles Corporation, Knowles Precision Devices (KPD), focuses on production of a wide variety of highly engineered Capacitors and Microwave to Millimeter Wave components for use in critical applications in military, medical, electric vehicle, and 5G market segments. Radar, pacemakers, MRI equipment, satellites, airplanes, electric vehicles and mobile phone base stations are just a few of the places you will find these products.



**Kratos General Microwave** - Kratos General Microwave designs and produces both custom and off-the-shelf high quality Microwave components which include synthesizers, Digitally Tuned Oscillators (DTO), Solid State Power Amplifiers (SSPA), switches, attenuators, limiters, phase shifters, IQ vector modulators and switched filter banks.



**Lotus Communication Systems Inc** - is a supplier of high performance RF modular Systems, covering frequency band to 40 GHz. Lotus is a privately owned company with the mechanical and electronic design, manufacture, test controlled from Middlesex, MA facility.



**Marki Microwave** - Offers the most comprehensive line of signal processing products up to 65 GHz, including mixers, doublers, multipliers, and specialist components ranging from amplifiers to DC blocks and bias tees. Marki Microwave components and subsystems are designed to offer superior performance and reliability at prices commensurate with the high-volume requirements of the microwave industry.



**Menlo Microsystems, Inc.** - Menlo Micro is reimagining one of the most fundamental building blocks of electronic systems – the electronic switch. The company's Digital-Micro-Switch platform is a game changer for those who design electronic systems, with a market opportunity of more than \$5 billion.



**Mini-Circuits** - Mini-Circuits is a global leader in the design, manufacture, and distribution of RF and microwave components and integrated assemblies. With design, manufacturing and sales locations in over 30 countries, Mini-Circuits offers 27 product lines comprising over 10,000 active models. Mini-Circuits products are used widely in commercial, industrial, and military applications including: cellular wireless, aerospace, satellite, Mil-Spec, CATV/Broadband, RFID, test instrumentation, diagnostic imaging and many more.



**Pasternack** - A leader in RF products since 1972, Pasternack is an ISO 9001:2008 certified manufacturer and supplier offering the industry's largest selection of active and passive RF, microwave and millimeter wave products available for same-day shipping. Pasternack is an Infinite Electronics company.



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**Qorvo, Inc** - Qorvo produce RF Front Ends, Premium Filters, Power Amplifiers, Switch Products, Foundry, Antenna Control Solutions, Gallium Nitride (GaN), Systems on a Chip (SOCs), Power Management ICs, Antenna Switch Modules, Optical, Radar, and Low Power Wireless Products



**RF Circulator Isolator, Inc.** - RF Circulator Isolator Inc., (RFCI) provide circulators and isolators spanning the frequency range of 50 MHz to 20.0 GHz in varying bandwidths, tailored to cover all standard and popular bands commonly used throughout the market place.



RFuW Engineering Ltd.

**RFuW Engineering, Ltd.** - Purveyors of the industry's leading RF & Microwave Switches and Limiters brought to you from the world's most business friendly environment. Their high reliability RF Switches and Limiters offer the world's highest power ratings for SMT style devices. Based on proven hybrid assembly technology widely used in high reliability applications such as radar and communication systems.



**Rogers Corporation** - Rogers Advanced Connectivity Solutions manufactures high frequency laminates and prepregs which are engineered for your exact performance requirements.



bringing technology to life

**Smiths Interconnect** - EMC-RFLabs provide temperature variable and fixed attenuators from DC through Q band, featuring the Thermopad® line of products. They also provide high-power RF/MW terminations and resistors, 3 dB hybrid and directional couplers, 2-, 3- & 4-way power dividers, DC blocks & RF cross-overs. EMC-RFLabs also provide high performance cable assemblies.



**Southwest Microwave, Inc.** - MPD has interconnect solutions for microwave and millimeter wave applications, operating to DC to 110 GHz. Products include SuperSMA, N, TNC, SSMA, 2.92mm, 2.40mm, 1.85mm, 1.0mm and 0.9mm SuperMini connectors in a variety of mounting configurations.



**Spectrum Control** - Supplier of passive RF and Microwave components for markets such as Commercial, Military, Space, and Laboratory test. Product solutions include surface mount resistive components, coaxial signal conditioning products to 65 GHz, and coaxial test cable assemblies. Weinschel's product offering includes fixed attenuators, continuously variable, manual step, solid-state digital step and programmable step attenuators; high power terminations; resistive splitters and dividers; manual phase shifters; Planar Blind-Mate®, Planar Crown® connectors.



**SUMITOMO ELECTRIC DEVICE INNOVATIONS, INC.** - Sumitomo Electric Device Innovations (formerly Eudyna Devices) offers products that include microwave and millimeterwave RF devices for cellular, handset, broadcast and satellite communications, these include GaAs and GaN power transistors and FET's both matched and unmatched, package and unpackaged, covering frequencies beyond E-band.



**Transcom, Inc.** - The company's expertise is on design and mass production of high performance GaAs devices for both high power and low noise applications. Standard processes include 0.25 um and 0.5 um PHEMT, HFET & MESFET.



**X-Microwave** - X-Microwave products and services address every phase of the development process from concept to prototype to production hardware. They offer a broad range of components designed around an innovative "Modular Building Block System" with models available for all components on our Online System Simulator.

