



## RF & Microwave

RF & Microwave Components

### BeckElec

**BeckElec - Crystal oscillators, XO's VCXO's, VCTCXO and TCXO's**

High volume, low cost crystal oscillators, XO's VCXO's, VCTCXO and TCXO's. Crystal Oscillators Covering frequencies from 10KHz to 155.52MHz, these devices are ideal for use in Stratum and Sonnet switches, RF Telecommunications, synthesizers, GPS, avionics and test and measurements applications providing low phase noise, miniature packaging and low cost. Both AT and SC cut crystal available. Stocking many options at 10MHz and other frequencies.

**Cobham Antenna Systems**  
Microwave Antennas

**Cobham Antenna Systems Microwave Antennas (ex European Antennas Limited) Antennas in the 400 MHz to 18 GHz**

Cobham Antenna Systems Microwave Antennas has purchased European Antennas Limited Antennas Security Surveillance, Cellular, WLAN, WLL, and Telemetry. An Original Equipment Manufacturer that specializes in the Design and manufacture of antennas in the 400 MHz to 18 GHz range to high standards (ISO9001) Designs include flat panel, sector, low profile, omni, hemi omni, dipole, helix, broadband and narrow band antennas that can be mounted on masts, walls, ceilings, roofs, UAVs, helicopters, missiles, race cars, TV cameras, weather buoys and satellites



**Eastern Wireless TeleComm, Inc., (EWT) - Specializes in custom design and manufacture of RF & Microwave filters and filter based products for Military, Commercial, Wireless, and Space applications**

EWT has 50 years of combined experience in the design, development, and high volume manufacturing of Cavity and Waveguide filters to 50 GHz and Lumped Element filters up to 10 GHz. All of our products are manufactured to strict guidelines set forth in our ISO-9001 compliant Quality System



**Microtech, Inc. - A world leader in the design and manufacture of flexible and rigid waveguide assemblies and passive microwave components.**

Since opening in 1954, we have served military and commercial customers for applications including radar, satellites, and communication. Today, Microtech has achieved a Space Qualified rating that is second to none, and our products can be found under the sea, on land, in the air and in space.

For more information please contact:

**Giga-Tron Associates Limited**

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Website: [www.gigatron.com](http://www.gigatron.com)



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**GIGA-TRON is the CANADIAN STOCKING DISTRIBUTOR FOR Mini Circuits High performance, low cost miniature RF/IF components Frequency mixers, Power splitters/combiners, Amplifiers, Bi-Phase Attenuators, Directional couplers, Filters, Frequency doublers, Limiters, Bias-Tees, Modulators-demodulators (I&Q, QPSK, BPSK), Phase detectors, GaAs Switches, RF Transformers, VCO's**



***RMI - Response Microwave Inc - coaxial and fiber optic connectivity and control component solutions***

Global supplier of coaxial and fiber optic connectivity and control component solutions operating from DC to light including; laser diodes, cryogenic cable, connectors, filters adaptors, terminations, attenuators, couplers and splitters. Complete line of standard and custom products for military, medical, telecom, industrial and scientific applications.



***Times Microwave Systems (TMS) - specializing in the design and manufacture of high performance flexible and semi-rigid coaxial cable, connectors, and cable assemblies for RF transmission from HF through Microwave frequencies.***

Cable solutions for the demanding requirements of airborne electronic warfare systems including low smoke cables for sipboard applications The innovative LMR® product line provides a better alternative to corrugated copper cables for antenna feeders and system interconnects. Compared to corrugated copper cables, LMR cables offer better flexibility, resistance to kinking, comparable attenuation, and easier connector attachment at a lower cost. high performance coaxial cables. closed cell low loss polyethylene foam dielectric and low loss taped PTFE dielectric coaxial cables. low VSWR over broadband frequency ranges up to 40 GHz. connector design and manufacturing expertise allowed TMS to take full performance responsibility for the entire cable assembly military specifications, including MIL-C-17 for coaxial cables. Times is the leading source of MIL-C-17 qualified products, holding far more QPL's (Qualified Product Listings) than any other manufacturer in the world. US Navy MIL-T-81490 Transmission Line Specification, and is qualified to supply microwave transmission lines that meet MIL-T-81490 and MIL-C-87104 (US Air Force) requirements. These are the specifications that define harsh military airborne environments that Electronic Warfare transmission lines must perform in TMS is the leader in the design, qualification, manufacture, and on-time delivery of high performance cable and cable assembly products to the commercial wireless and military marketplace.

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## Test, Measurement & Sensing

Equipment for RF & Microwave test, measurement and sensing



***ORBIT/FR - automated antenna measurement systems for test and measurement including: Near-Field, Far-Field***

***& Compact Range technologies for Antenna, EMC, RCS & Radome applications***

ORBIT/FR serves the defense, aerospace, telecommunications, and automotive industries with automated antenna measurement systems dedicated to Far-Field, ORBIT/FR is a pioneer of modern antenna measurement supporting the antenna test and measurement needs of the defense, aerospace, automotive, and telecommunications industries. From sophisticated turn-key measurement systems to precision individual components. provide for all of your test and measurement needs, including Near-Field, Far-Field & Compact Range technologies for Antenna, EMC, RCS & Radome applications.

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## Military Suppliers

### CommsAudit

### CommsAudit - Communications Audit UK Limited

[www.commsaudit.com](http://www.commsaudit.com)

**CommsAudit designs and manufactures RF and digital equipment and subsystems in the United Kingdom UK for Defence, Telecommunications, Military, and broadcast communications applications.**

CommsAudit Manufactures COTS, HF Tuner Digitisers, Antenna Multicoupler distribution units for HF VHF UHF and L-Band, Antenna switch matrix systems that are Fast switching, Non-blocking, full fan-out and hot swap compliant, Down-converters for VHF UHF, Superresolution HF direction finding (SRDF) multichannel tuners, and Frequency Standard distribution units. HF Antenna beamformers and Antenna sequencers for 24 low band and 24 High band inputs. CommsAudit's CA 7708 an 8 Channel Narrowband HF Tuner Digitiser Subsystem is suitable for Over the Horizon Radar OTHR and High Frequency Surface-Wave Radar HFSWR and other applications.



### Comtech PST

[www.comtechpst.com](http://www.comtechpst.com)

**Comtech PST offers solid-state power amplifiers in frequency ranges from 1 MHz through 3.6 GHz, with output power levels ranging from 5 watts to over 30 kW.** Standard and customized products are available in amplifier module building blocks and rack-mountable amplifier units. INTEGRATED SYSTEMS Comtech PST can customize a complete amplifier system with integrated control devices to suite your specific requirements. AMPLIFIERS: Wireless Communications Amplifiers General Purpose Class A Linear Amplifiers Series BHE/BHC Class AB Linear Amplifiers Custom Design Amplifiers



### EW Simulation Technology Limited

[www.ewst.co.uk](http://www.ewst.co.uk)

**EW Simulation Technology Limited (EWST) is a UK Company (owned by Herley Industries Inc.), specializing in the design and manufacture of Multi-Spectral Threat and Countermeasures Stimulators for EW test, evaluation and training.**

The Company has been established in the radar threat and ECM simulator business since 1984 and has a well-proven and distinguished track record world-wide. The success of EWST has been through the supply of high quality products together with a total commitment to post sales service and logistic support. EWST manages a continuous product improvement design philosophy with the ability to upgrade older products with the latest designs. The Company operates a fully documented quality control system certified to ISO9001:2008. Since 1984, EWST has supplied over 100 simulation equipments to naval, air force, army and civilian customers in more than 17 countries around the globe. Backed by a network of local sales and representative offices, and with a related facility in Nowra, Australia, EWST offers a total capability for marketing, sales, design, manufacture and support of its radar threat and countermeasures simulator products.



### TCI International Inc.

[www.tcibr.com](http://www.tcibr.com)

**TCI International Inc. (TCI), is a Silicon Valley systems engineering and manufacturing company, specializes in Spectrum Monitoring & Communications and HF/MF Broadcasting & Communication antenna systems, and engineering services. They specialize in VHF/UHF COMINT/DF Systems**

TCI International, Inc. (TCI), a Silicon Valley systems engineering and manufacturing company, specializes in Spectrum Monitoring & Communications and HF/MF Broadcasting & Communication antenna systems, and engineering services. For nearly 40 years TCI's global customers have acquired customized systems (as well as training and support) that reflect a multi-disciplined approach to system preparation/product manufacture. TCI's design and manufacturing abilities are expanding through focused research/development they specialize in VHF/UHF COMINT/DF Systems see Model 803C Strategic VHF/UHF COMINT DF System [http://www.tcibr.com/ufiles/Library/803Cwebp\\_052407.pdf](http://www.tcibr.com/ufiles/Library/803Cwebp_052407.pdf) Model 803WT Tactical VHF/UHF COMINT DF System : <http://www.tcibr.com/ufiles/Library/803WTp.pdf> HF COMINT/DF Systems Model 802 Narrowband HFDF System : <http://www.tcibr.com/ufiles/Library/802webp.pdf> Model 9091 Wideband HFDF Processor : <http://www.tcibr.com/ufiles/Library/9091webp.pdf>