

Microwave Components & Integrated Assemblies



- Leader in design and manufacture of complex integrated microwave assemblies
- Specialized low noise oscillators and signal generation assemblies
- Advanced control and conversion assemblies
- Multi-Mix® Microtechnology
- Wide range of microwave components

The Microwave Advantage

Crane Aerospace & Electronics designs and manufactures high performance millimeter-wave, microwave, RF and IF components, subsystems and systems for military, satellite and commercial end-use customers. This exceptionally wide range of component design and manufacturing provides a strong base for building complex integrated assemblies.

Since 1954, Crane's Merrimac, Polyflon, Signal Technologies and Keltec brands have continued to excel delivering microwave components and integrated subassemblies including frequency converters, low noise oscillator assemblies and other highly-integrated assemblies are core to the capability brought to the market. Our facilities offer both small lot and high volume manufacturing. With our large existing design library of circuits, components and subsystems, coupled with years of experience in designing and manufacturing a breadth of products, Crane Microwave Solutions is the logical partner for design and manufacture of your critical subsystems.

Count on Crane Aerospace & Electronics

Crane Aerospace & Electronics provides value to our customers through combined technical strength, proven product reliability, innovative solutions and commitment to lean manufacturing. Each company is ISO9001/AS9100 certified and focused on operational excellence and world-class processes.

From application engineering and requirements definition through design, manufacturing and certification support, Crane Aerospace & Electronics is committed to providing value through the life of the program. Whether you're looking for a standard or custom-designed microwave solution, Crane Aerospace & Electronics has the proven experience to deliver what you need.

Partner with Crane, your trusted market leader in demanding defense, space and commercial aerospace applications. For more information or to request a quote, contact us at www.craneae.com.



Product Lines

Integrated Microwave Assemblies

Frequency Converter Assemblies: Soft-board and ceramic substrates and topologies (microstrip, stripline, suspended substrate). Small size and high performance.

Complex Oscillator Assemblies: Advanced Frequency Synthesizers, Digitally Tuned Oscillators (DTOs), Phase Locked Oscillators (PLOs), Multiple Output Master Oscillators. Frequencies from 50 MHz to 22 GHz.

Signal Routing and Control Systems: Switch matrices and assemblies covering RF through microwave frequency ranges, varying in application from system redundancy and antenna selection to complex SATCOM teleport applications. Specializing in fulfilling demanding performance applications.

Multi-Mix® Microtechnology: Innovative process for microwave, multilayer integrated circuits and micro-multifunction modules (MMFM®) using a fusion bonding process. UHF to millimeter wave.

Beamformers: Developed to specific customer requirements for use in phased array systems. UHF to millimeter wave.

Component and Single Function Devices

Low Noise Fundamental Oscillators: Voltage Controlled Oscillators, Crystal, Dielectric and Coaxial Resonator Oscillators. Frequencies from 50 MHz to 26 GHz.

Ferrite Based Components: Isolators and Circulators; miniature, broadband drop-in units, low to high power. Frequencies from 400 MHz to 26 GHz.

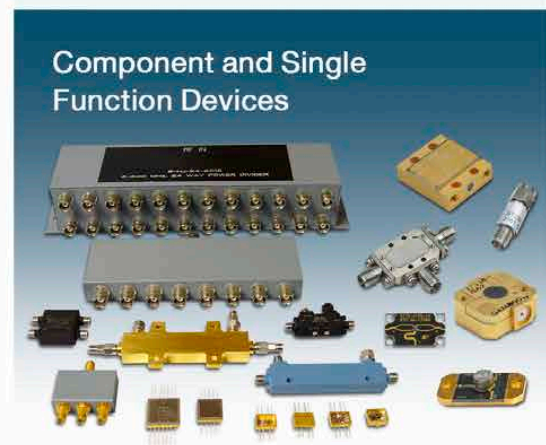
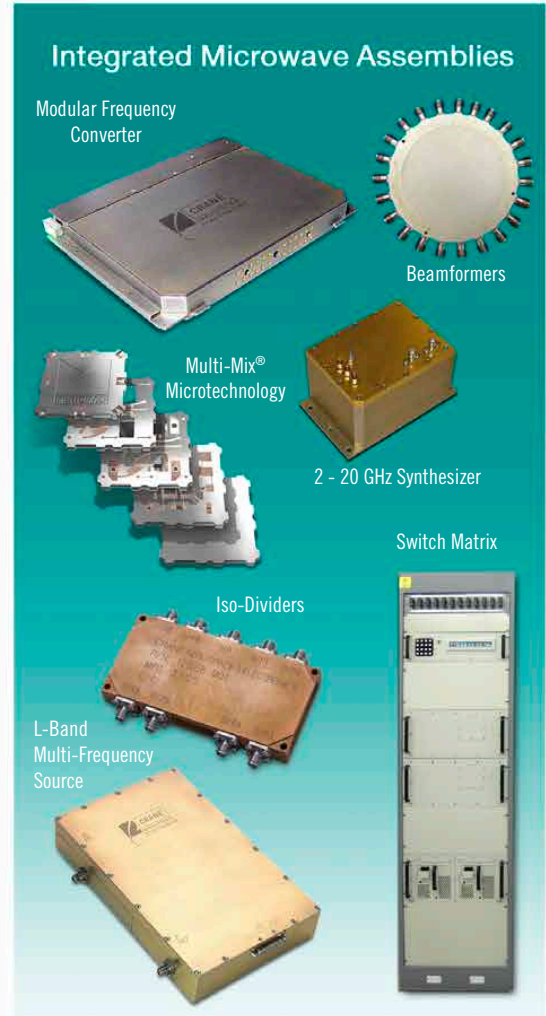
Mixer Products 0.5 MHz. to 26.5 GHz: Double balanced and triple balanced mixers with RF/LO. Frequencies from 0.5 MHz to 26.5 GHz.

Passive and Control Components: Power dividers, directional couplers, hybrids, modulators, phase shifters and other control devices.

Detectors, Limiters and Comb Generators: Detectors, limiters and comb generators offering broad frequency ranges and small packages.

Active Signal Detection Products: Log Amps, Detector Log Video Amplifiers (DLVA) and Threshold Detectors. Small packages, multi-octave bandwidths, fast rise and fall times and advanced CW immune capabilities.

Let us help you configure the ideal solution for your application. Contact us today!



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ELDEC • HYDRO-AIRE • INTERPOINT • KELTEC • LEAR ROMEC • MERRIMAC • P.L. PORTER • POLYFLON • SIGNAL TECHNOLOGY

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