

# KRATOS | GENERAL MICROWAVE Microwave Electronics Division

## GENERAL MICROWAVE | COMPANY PROFILE



**GENERAL MICROWAVE** is a recognized worldwide leader in the design and manufacture of high performance, State-Of-The-Art, complex, multi-discipline 0.1-52GHz RF Microwave, Digital, Software and Firmware assemblies for defense and non-defense markets. General Microwave incorporates its catalog and custom products in various applications in demanding environments, including Airborne, Space, Naval and Ground systems.

### **Our focus:**

**Defense market:** System houses providing Missiles, Electronic Warfare (EW) Systems and Simulators, Space (LEO and GEO), Radars, Smart/Guided Munition, Navigation Warfare, Communications, DIRCAM, UAVs, and HLS.

**Non-Defense market:** In-Flight-Connectivity, Space (LEO and GEO), DIRCAM, IFF, Test Equipment, Communications, Silicon industry, Research Laboratories and Medical Instruments.

## Microwave Product solutions supporting a wide range of applications:

### **Broadband Synthesizers and Oscillators (0.5 to 20+ GHz)**

Fast Indirect Synthesizers with less than 1 microsecond settling time with modulation, Direct Coherent Synthesizers with 40 nanosecond settling time, Digitally Tuned Oscillators (DTOs), Phase Locked Oscillators (PLOs) and Voltage Controlled Oscillators (VCOs). These products are used mainly in EW systems and Space applications.

### **Solid State Power Amplifiers (SSPAs)**

Up to 1KW in X, Ku, Ka, Q and V bands, for applications such as missiles, ground, HLS, airborne and naval RADAR systems. Our SSPAs are incorporated in military and non-military systems. Our amplifiers line also includes Power Amplifiers for IFF systems.

### **Transceivers and Receivers**

This product line includes both Narrow-band and Broadband products for various applications such as Direction Finder subsystems for ELINT and ESM systems, Data Links for Missiles, Space, Drones, Smart/Guided Munition and UAVs.

### **Adaptive Antenna for GNSS**

Advanced Adaptive Antenna Modules to protect GNSS systems such as GPS and GLONASS from jamming. Providing a variety of solutions, ranging from low cost modules coping with a single jammer, to high performance modules coping with multiple threats.

### **Up and Down Frequency Converters**

Custom Up and Down narrow and wideband Frequency Converters for applications such as Electronic Warfare systems, Space (LEO and GEO) and Satellite communications.

## Custom IMAs

Multi-disciplinary Integrated Assemblies, incorporating Microwave, Digital, Software and Firmware state of the art technologies, built per specific customer's requirements for broad, challenging and demanding applications, such as Space, Missile Seekers, In-Flight Connectivity and more.

## Sensors

Variety of sensors from simple low cost-to complex high-end. General microwave sensors are incorporated in Defense systems such as Missiles with Digital Proximity and/or Altimeters, Smart Munitions and DIRCM. For Non-Defense markets, our sensors are used in Range and Velocity Measuring systems, for example, measuring liquid levels.

## Beam Forming Modules

A versatile line of complex high-density modules for Phase Array Radars.

## Control Components (0.1 – 40 GHz)

Based upon PIN diode and proprietary coupler technology, this product line includes Switches (SPST up to SP26T for low, medium and high power), Switched Filter Banks, Attenuators, Limiters, Modulators, Phase Shifters, Frequency Translators and I/Q Vector Modulators. All of these products are available with either digital or analog control.

## ISO Certification

**General Microwave** is certified to ISO 9001:2015 and AS9100 Rev. D. applicable to the design and manufacture of microwave components, super components and sub systems. **USA Site** is certified to ISO 9001:2015.

## RoHS & REACH Compliance

**Most of GENERAL MICROWAVE** products are available as RoHS and REACH compliant. If your system requires it, please indicate it in your specifications.

## Environmental

**General Microwave** has a policy of continuous environmental improvements and is committed to working closely with its suppliers and customers to achieve this goal.

In addition to the following 3 sites of General Microwave, there are sites in India and California (formerly CTT). Please contact any of the following sites, for further information in this matter.

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