

# 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 Microwave Components and Sub-assemblies for the defense as well as for the non-defense markets. General Microwave supports a variety of applications in demanding environments including missiles, airborne, naval and ground systems, with catalog and custom Microwave products for applications such as:

**For the Defense market:** Electronic Warfare (EW) Systems, Radars, Missiles, UAV, Smart Munition, GPS Immune, Communications, Data Links, HLS and Simulators.

**For the Commercial market:** In-Flight-Connectivity, IFF, Test Equipment, RF and Fiber Optic Communications, Industry, Research Laboratories and Medical Instruments.

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

#### **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).

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

Up to 1KW in X and Ku- bands for missiles, airborne Radars and HLS radars. Up to 1 KW in VHF, for military and non-military applications. Power Amplifiers for IFF systems and Low Noise Amplifiers.

#### **Sensors**

Variety of sensors such as Proximity and Digital Altimeters, utilizing state of the art technology for applications such as Smart Munitions, Missiles and DIRCM. In addition Range and Velocity Measuring Sensors for commercial use such as measuring liquid levels and HLS applications.

#### **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 multi threats.

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

Custom designed Up and Down Frequency Converters for use in applications such as Electronic Warfare Systems.

# Integrated Microwave Assemblies (IMAs) and Sub-Systems

## Beam Forming Modules

A versatile line of complex high-density modules utilizing Surface Mount Technology for Phase Array Radars.

## 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, Smart Munition, UAVs, Centric Network Warfare, JDAM/BDI and more.

## Custom IMAs

Integrated Microwave Assemblies built per specific customer's requirements such as: RF Front Ends, Frequency Converters and DLVAs.

## Control Components (0.1 – 50 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 Compliance



**The RoHS** Directive stands for "the restriction of the use of certain hazardous substances in electrical and electronic equipment". Most of GENERAL MICROWAVE products are available as RoHS compliant. If your system requires RoHS compliance, 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.

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