

# Your European Source for Microwave Components, Assemblies and Sub-systems



**SMS**

Specialist Microwave **Solutions**

**Specialist Microwave Solutions Ltd (SMS)** specialise in the design, manufacture and repair of microwave components, assemblies and sub-systems. Applications range from Radar, EW and Communication systems for the Aerospace and Defence markets to Telecommunications, Instrumentation and various Industrial applications.

Their primary focus is to provide a high quality flexible service for requirements that often need experienced product and application knowledge; working closely with customers.

SMS's hybrid circuit manufacturing capabilities range from the repair of heritage products, prototype and pilot production undertakings and 'build to print' tasks for customers to the design, development and manufacture of components through to complete microwave sub-systems.

They also offer through life support undertakings for many of these products when required.

In house manufacturing capabilities are optimised for small/medium production runs (nominally less than 100 units batches), however higher volume needs can be accommodated with the assistance of partner companies, when required.

SMS do not operate with any form of minimum order quantity or price limitations.

An approved supplier to many major UK and overseas OEMs; customers include BAE SYSTEMS, E2V Technologies, Lockheed Martin, Saab Microwave, Selex Galileo, Thales Defence etc. as well as a cross section of smaller companies including design houses and SMEs.

SMS have developed a highly valued repair service together with form/fit/function replacement and/or updated design capabilities for heritage components and assemblies that are no longer supported by the original manufactures: These have included products originally from companies ranging from Alpha Industries to Zeta Laboratories.

SMS was formed in June 1999 by three engineers with a combined experience of more than 70 years in microwave component design and manufacture. They currently operate with a total of 18 engineers and technicians from a 3000 sq ft modern facility overlooking the airfield in the Cranfield Technology Park: Part of the Cranfield University campus situated close to the M1 (J13 & J14), midway between Bedford and Milton Keynes they have links with both the University School of Applied Sciences and the Shrivenham Defence & Security Academy.

Facilities are over two floors and include comprehensive manufacturing and microwave test facilities. Process capabilities range from die assembly and fine wire bonding to electrical testing and the environmental screening of complete sub-systems.

ISO 9001: 2008 certified: Approved since March 2000.

## **Key products and capabilities include:**

- Solid State Switches: PIN diode and GaAs FET
- Attenuators: Analogue and Digital
- Amplifiers: Low/medium power GaAsFET and Bipolar; narrow and broadband
- Oscillators: VCO; DRO; PLDRO; Fast switching multi-crystal assemblies; synthesised sources
- Phase Shifters: Diode and switched line
- Diode Limiters: Individual and integrated
- Multi-function assemblies and complete sub-systems: Integrated front ends; Channelised receivers; Converters etc. supplied as building blocks or complete assemblies with drive and control circuitry.

Packaging capabilities range from rack mounted assemblies and integrated sub-systems to standard housings with coaxial connectors, drop-in or SMT designs and open carrier formats for direct integration by the user.

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All products designed and  
manufactured in the UK

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