PRESS INFORMATION
from TMD Technologies, LLC, USA

Preview for:
International Microwave Symposium
Philadelphia, Pennsylvania USA
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TMD USA highlights latest Ka band MPMs and new intelligent instrumentation amplifier on Booth 755 at IMS 2018

At IMS this year, on Booth 755, TMD Technologies, LLC (TMD USA), world class supplier of professional microwave and RF products based in Baltimore, Maryland, will be featuring its advanced TWT-based and solid-state microwave power modules (MPMs) – plus a new intelligent instrumentation amplifier: for radar and EW defence & homeland security systems and EMC & scientific laboratory applications.

Tom Curtin: ‘Anticipating a show to break all records!’

Said Tom Curtin, Vice President of Sales and Business Development, TMD USA: “The International Microwave Symposium is of great importance to us, and with our experienced sales team and TMD’s state of the art products we are anticipating an extremely productive event. It is the ideal venue to meet with our growing customer base, welcome potential new customers, and add further impetus to our on-going expansion strategy here in North America”. Continued Tom: “In response to emerging market requirements in defence and security worldwide – and our increasing customer inquiries in the USA - we will be highlighting our latest technically challenging Ka band MPMs for high performance EW and radar systems. Also on display, will be our new intelligent instrumentation amplifier, the solution to effective radar and EW threat simulation”.
(see below).
Latest Ka band products for high performance EW and radar systems

The new PTX8807 TWT based, Ka band compact MPM features simplified integration for high performance EW and radar systems and provides an output power of up to 200 W over a 30-40 GHz frequency range. Comprising a high-power Ka band helix TWT and switched mode power supply, it forms a single ‘drop-in’ unit without the need for high voltage connections, thereby eliminating any associated reliability problems.

TMD’s PTX8807 is easily integrated into a variety of airborne platforms.

High electrical efficiency results in minimum cooling requirements, with reliable operation over a wide temperature range. The PTX8807 provides top performance at high altitude and in high humidity, and is easily integrated into a variety of airborne platforms. It also features remote operation and status monitoring.

Also operating in the Ka band is TMD’s new PTX8815 TWTA, designed for radar applications such as naval fire control. Featuring broadband capability, covering a frequency range from 34–36 GHz, it offers peak power of over 1100 W in the mid-band, and 600 W at the band edges, with a maximum duty cycle of up to 12%. This state-of-the-art TWTA is the answer to demanding high fidelity radar applications where low close-to-carrier phase noise and excellent spurious performance are required.
New intelligent instrumentation amplifier
The PTCM Series TWT intelligent instrumentation amplifiers operate over a frequency range from DC to 40 GHz with a power output up to 50 kW. A range of applications include EW and radar threat simulation, EMC/radiated immunity, communications, RF component testing, and scientific experiments. Of customisable 6U high rack mounting construction, they are designed to deliver the highest field strengths in the test environment. The user benefits provided by these highly intelligent amplifiers include self-test, fault diagnosis, and modular plug and play replaceable printed circuit boards.

PTCM – the solution to effective radar and EW threat simulation.

6-18 GHz MPM for high power radar and EW systems
The new PTX8110 operates from 6-18 GHz at 200 W and, with its compact design, is easily integrated into those high-performance EW and radar systems requiring more power. Comprising a high-power helix TWT and switched mode power supply, the PTX8110 forms a single ‘drop-in’ microwave amplifier unit without the need for potentially unreliable high voltage TWT interconnections. A low gain TWT is specified together with a low noise solid state pre-amplifier to provide optimum noise performance.

Highest-tech solid state MPM for EW/ECM
TMD’s PTS6900 MPM is a fine example of TMD’s solid state expertise. Employing advanced GaN MMIC technology, the unit offers high performance over a 2-6 GHz range with an output power of 150 W, and is designed for fast integration into EW/ECM systems. Because of its superior design and construction, the PTS6900 has a predicted 30,000 hours MTBF in an airborne uninhabited fighter environment.
Ultra-compact, low weight MPMs – for airborne radar, EW and communications

TMD will also be displaying the PTXM Series ultra-compact MPMs. Featuring low volume and low weight these units are ideal for UAVs. They operate over the frequency range 4.5 to 18 GHZ with output powers up to 140 W, and offer probably the highest power density on the market.

*TMD’s PTXM range has probably the highest power density on the market.*

**TMD Team at IMS 2018**

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Nigel Hann, Head of Sales
TMD Technologies – built on more than 20 years at the top of scientific and technical microwave and RF innovation

TMD Technologies, LLC, USA

TMD Technologies, LLC is the US subsidiary of UK based TMD Technologies Limited. Based in Baltimore, Maryland, it provides complete technical and commercial support to TMD’s customers in the USA and offers a comprehensive product repair center.

The US Sales and Business Development team is trained and actively involved in supporting TMD’s entire product line-up, along with new business development in the United States.

TMD Technologies Ltd, UK

With a heritage dating back to the 1940s, TMD Technologies Limited (TMD) is a world class designer and manufacturer of professional microwave and RF products.
At the company headquarters in Hayes in West London it produces specialised transmitters, amplifiers, microwave power modules (MPMs), high voltage power supplies and microwave tubes for radar, EW and communications applications. A previous twice Queen’s Award winner, it also produces a range of advanced instrumentation microwave amplifiers for EMC testing, scientific and medical applications.

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