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PRESS INFORMATION*from TMD Technologies, LLC, USA**Preview for:***International Microwave Symposium**

Boston, USA

4–6 June 2019

Booth 1330**At IMS 2019 TMD USA shows: New Ka band compact TWT based MPMs, other solid-state and TWT-based MPMs, and intelligent instrumentation amplifiers**

TMD Technologies, LLC (TMD USA) will be showcasing its latest microwave products at the International Microwave Symposium, featuring their state-of-the-art high-power sub-systems for radar, EW, and other defence/homeland security programs. Their latest instrumentation amplifier solutions for EMC, threat simulation, and other scientific applications will also be displayed.

Said Tom Curtin, Vice President of Sales and Business Development:

“IMS is the world’s largest microwave and RF industry trade show, and we look forward to meeting with our growing customer base and welcoming new visitors. We will be showcasing our high-performance travelling wave tube (TWT) and advanced solid-state microwave products, all specifically designed to meet the needs of defence and security worldwide to support of our USA customers’ expanding needs.

Page 1



Commented Mike Farley, CEO of TMD USA: “TMD has extensive experience in EW/ECM and radar products for airborne, ground based and naval platforms. Our latest EW products include a range of units covering the technically challenging Ka band as well as utmost reliability, high power options for the 6-18 GHz frequency range”.

At IMS 2019 TMD USA will be showing its new line of Ka band TWT MPMs, exemplified by the PTX8807, as well as the new lightweight PTXM2000 compact high power MPM, solid state PTS6900 and other ultra-compact TWT based MPMs from the PTXM Series.

PTX8807 – now being used in a NATO role

This advanced TWT based MPM addresses the solution to providing counter measures against increasing operating systems emerging in the Ka band – such as missile threats. It covers the 30-40 GHz Ka band with a power output of 200 W and is easily integrated into EW and radar systems. Designed for simple fitting into a variety of airborne platforms, the PTX8807 operates at high altitude and humidity.



The PTX8807 operates over the 30-40 GHz Ka band – a fine example of TMD’s expertise in the EW/ECM field.

Highlighting the innovative design and exceptional performance of this MPM is a prestigious order received recently by TMD for four units scheduled for use in a naval multi-MPM EW jamming system in a NATO role.

PTXM2000 – for systems requiring higher power

The new PTXM2000 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 higher power. Comprising a high-power helix TWT and switched mode power supply, the PTXM2000 offers – like the PTX8807 - a single ‘drop-in’ microwave amplifier unit without the need for potentially unreliable high voltage TWT interconnections.

PTX8815 - for Ka band radar

The new PTX8815 TWTA is designed for Ka band radar applications such as naval fire control. Featuring broadband capability, covering 34–36 GHz, it offers a peak power of over 1100 W in the mid-band, and 600 W at the band edges with a maximum duty of up to 12%.

PTS6900 – for fast EW/ECM system integration

TMD’s solid state PTS6900 MPM employs advanced GaN MMIC technology, and offers high performance over a 2-6 GHz range with an output power of 150 W. It is designed for fast integration into EW/ECM systems, and has a predicted 30,000 hours MTBF in an airborne uninhabited fighter environment. This range has now been enhanced with the edition of the PTS6963 at 180 W output power.



NEW ultra-high efficiency amplifiers for radar

Offering over 50% efficiency improvement over earlier TMD products.



TMD has recently added two new amplifiers to its PTX range of microwave power modules (MPMs) for radar, EW and communications.

Operating in the X band, the new travelling wave tube (TWT) based PTX8430 and PTX8501 offer ultra-high efficiency, providing more than 50% improvement over the previous models. TMD has achieved this impressive performance by matching high efficiency TWT technology with TMD's ultra-efficient power supply topology.

Designed for high power radar applications, on land, sea or air, these new MPMs have a power output of 1 kW over the frequency range 9-10 GHz - with duty cycles of 5 and 10% respectively and 55 dB gain.

PTXM Series – ultra-compact, and ideal for UAVs

For airborne radar, EW and communications, the PTXM Series ultra-compact MPMs feature low volume and low weight and are ideal for applications such as UAVs. They operate over the frequency range 4.5 to 18 GHz with output powers up to 140 W and provide probably the highest power density on the market today.

PTCM Series – with highest field strengths

Ideal for EMC HIRF testing applications, scientific, medical and other fields, 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. They are designed to deliver the highest field strengths in the test environment. User benefits include self-test, fault diagnosis, and modular plug and play replaceable printed circuit boards.

A high power, rack mountable, dual combined version is now available with single input and output.

TMD USA - Sales Team at IMS 2019

Tom Curtin, Vice President of Sales and Business Development

Rafael Cisneros, Systems Engineering Manager

Bryan Herndon, Sales Engineer

Supported by Nigel Hann, Head of Sales, TMD UK

TMD Technologies, LLC, USA



Leader in scientific, professional microwave and high power RF innovation

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

The US Sales and Business Development team is fully trained and actively involved in supporting TMD's entire product line-up, including TWTAs, MPMs and HVPSs 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 West London UK, it produces specialised transmitters, amplifiers, microwave power modules (MPMs), high voltage power supplies, microwave tubes and transponders for radar, EW and communications applications. It also produces a range of advanced instrumentation microwave amplifiers for EMC testing, scientific and medical applications. All TMD's portfolio of high-power microwave products are available to customers in the USA.

For further information and digital images please contact:

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