

PRESS INFORMATION

Preview for:

Farnborough International Airshow

16-22 July 2018

Hampshire, England UK

**TMD exhibits latest advanced TWT and solid state MPMs for radar, EW and communications systems, plus G2 Engineering radar transponders
- all on Stand 1134, ADS UK Pavilion Hall 1**

At Farnborough this year TMD Technologies Limited (TMD), world class, West London based company specialising in professional microwave and RF products, will be showing microwave power modules (MPMs) and intelligent instrumentation amplifiers - as well as for the first time, a selection of radar transponders from TMD's newly acquired company, G2 Engineering Ltd.

TMD will be showcasing its very latest MPMs, namely: the new travelling wave tube (TWT) based 30-40 GHz Ka band PTX8807, high-power 6-18 GHz PTX8110 and high-power 34-36 GHz Ka band PTX8815 – products that are ideal for high performance radar and EW systems. (see below).

New TWT based Ka band MPMs on show – and many other advanced microwave products from TMD

PTX8807 – heralding a new line of TWT based, Ka band MPMs. This new 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 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.



The PTX8807 operates over a 30-40 GHz range.

PTX8110 – providing high power. 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 higher 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. It is designed to provide optimum noise performance.

PTX8815 - Ka band MPM for high performance. 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%. This top class TWTA is the answer to high fidelity radar requirements for low close-to-carrier phase noise and spurious performance.

PTS6900 – solid state MPM optimised for EW/ECM. 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.

PTXM Series - ultra compact MPMs. For airborne radar, EW and communications, the PTXM Series ultra-compact MPMs feature low volume and low weight and 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.

PTCM Series instrumentation amplifiers. Ideal for radar and EW threat simulation, 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, modular plug and play replaceable printed circuit boards.

G2 products at Farnborough 2018

For the first time TMD will be showing a selection of radar transponders from G2 Engineering Ltd, its recently acquired specialist microwave company. Applications for G2 transponders and support equipment include UAVs, missiles, and manned aircraft.



Miniature transponder from G2 Engineering – now part of the TMD family of microwave and RF products.

Andy Crawford, TMD's Head of After Sales, has overall responsibility for the sales and marketing of G2 Engineering products. He commented: "This acquisition broadens our portfolio and significantly increases our capacity in radar and comms transponder technology. It is really exciting to be working on a new product portfolio - introducing these well established and technically advanced G2 products to TMD's customer base."

All the sales team at Farnborough 2018

All TMD's Sales Team is scheduled to be in attendance periodically on its stand during the exhibition - to ensure that customers receive full information on the company's new and established products - and also to meet key delegations from around the world.

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TMD Technologies Limited – more than 20 years at the top of scientific and technical microwave and RF innovation

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, 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.

TMD Technologies, LLC, USA

TMD Technologies, LLC is the US subsidiary of 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 centre.



The Sales and Business Development Department is engaged in the sales of the whole range of TMD's products, as well as new business development in the United States.

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