

## ***PRESS INFORMATION***

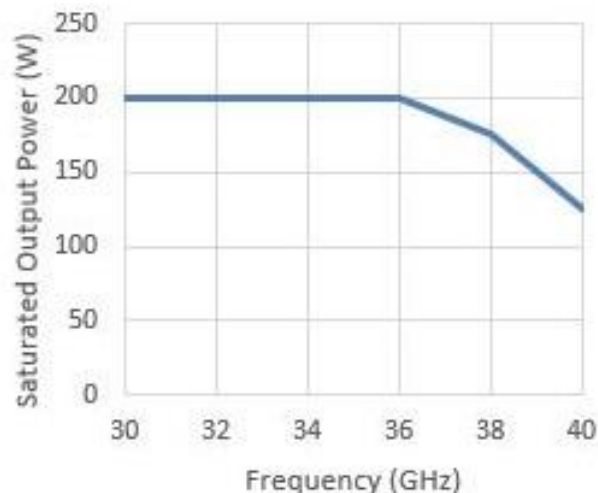
Review for:  
AAD 2016,  
Waterkloof Airforce Base, Tshwane, South Africa  
14-18 September 2016

### **TMD exhibits NEW compact Ka Band MPM for radar, EW and communications applications - on show for the first time outside the UK!**

At AAD 2016, TMD Technologies Limited (TMD), independent world class West London based manufacturer in the microwave and RF field, will be highlighting its NEW line of Ka band, compact TWT based microwave power modules (MPMs), designed to meet the exacting demands of today's radar, EW and communications applications.

On show for the first time outside the UK, on TMD's agent's **Accutronics Stand CE2, Hangar 6**, will be the very '**first-of-the line**' **PTX8807 Ka band MPM**. This new TWT based MPM operates over the technically challenging 30-40 GHz frequency range with an output power up to 200 W at 100% maximum duty cycle.

#### **Simple drop-in unit, versatile configuration, easy airborne platform integration**



*TMD's new line of Ka band compact MPMs is exemplified by the PTX8807 – operating over the 30-40 GHz range up to 200 W output power (100% max duty cycle).*

### Single 'drop-in' unit - eliminates hazards

TMD's new compact PTX8807 TWT based MPM comprises a high power Ka band helix travelling wave tube (TWT) and a matched high density switched mode power supply to form a single 'drop-in' microwave amplifier unit. This construction obviates the need for high voltage TWT interconnections - and eliminates associated safety and reliability hazards.

Also, using just one MPM instead of a separate TWT and power supply has the advantage of simplifying spares logistics and maintenance. Moreover, to allow customers the benefit of specifying particular duty, frequency and peak power parameters, TMD has configured the PTX8807 to incorporate a variety of TWT models.

### Highest electrical efficiency

TMD's engineering team have ensured that factory settings are the optimum for TWT performance, eliminating time-consuming user adjustment and thus simplifying any replacement in the field. High electrical efficiency is 'designed-in'. This means that the PTX8807 requires the minimum of cooling and will provide highest reliability over a wide temperature range of -40°C to +65°C.

### Airborne platform integration is easy

Because the high voltage section is fully encapsulated, the PTX8807 is able to operate at high altitudes up to 45,000 ft and in high humidity environments up to 95% (non-condensing), allowing easy and trouble-free integration into a variety of airborne platforms.

The PTX8807 also offers remote operation and status monitoring, with internal diagnostic outputs and indicators available for BIT purposes.

### "Set to be a winner!" says TMD's Head of Sales

Summing up, Nigel Hann, TMD's Head of Sales said: "We had a great response from visitors to our stand when we launched the PTX8807 at the Farnborough International Airshow in July. We were responding to current demand when we developed our new Ka band MPMs. This initiative is already paying off and by exhibiting at AAD 2016 – recognised as the premier showcase venue of air, sea and land technologies on the African continent – we look forward to further building on this success."

## ***Also on Show***

Emphasising its capability to offer customers both high performance TWT based and advanced solid state MPMs, TMD will be exhibiting its PTXM Series TWT based MPMs and solid state PTS6900 MPM.

In addition, TMD will be exhibiting its fast warm Ku band ring loop TWTs and rapidly developing range of instrumentation TWT and solid state amplifiers. The latter have applications in the avionics and aerospace industries for radar/EW simulation and training – and also EMC HIRF testing.

## **TMD Technologies Limited – More than 20 years at the top!**



*TMD's headquarters in West London.*

*Last year, the company celebrated 20 successful years at the top of its profession as an independent design and manufacturing SME in the microwave and RF field.*

TMD Technologies Ltd is one of the world's leading designers and manufacturers of specialised transmitters, amplifiers, microwave power modules (MPMs), high voltage power supplies and microwave tubes for radar, EW and communications applications. The multiple Queen's Award winning company 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 Ltd, set up in Baltimore, Maryland in 2013; its purpose being to provide excellent commercial and technical support to TMD's customers in the USA. The company is now well established, the product repair and service centre is up and running and its Sales and Marketing Department is engaged in new business development in the USA - for the whole range of TMD's products.

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