

## PRESS INFORMATION

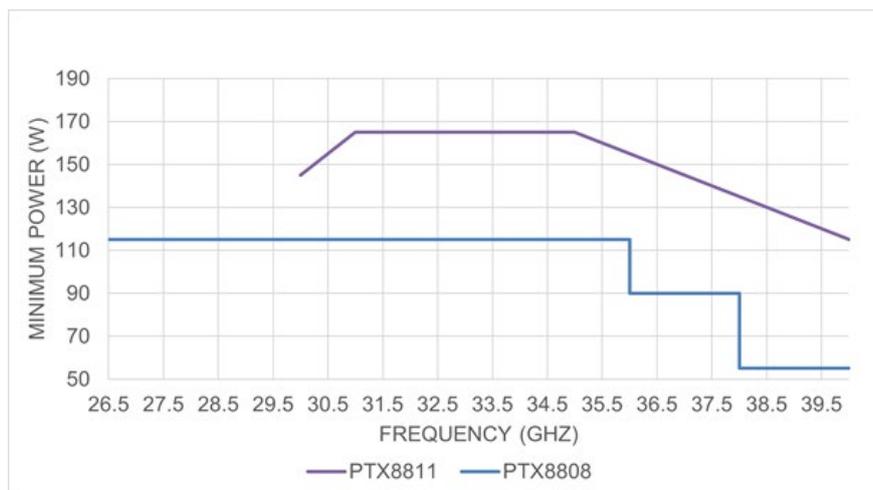
16 March 2021

### ***TMD extends its position as leader in Electronic Warfare power amplifiers with the introduction of two NEW compact Ka band MPMs for use in high-performance radar and ECM systems***

TMD Technologies Limited (TMD), independent, world class, West London based manufacturer in the professional microwave and RF field, has introduced two new products to its advanced PTX range of Microwave Power Modules (MPMs).

#### **Improved frequency range...**

The new PTX8808 and PTX8811 operate in the technically challenging Ka band and are designed to meet the exacting needs of today's Electronic Warfare (EW) and high-performance radar systems. Replacing the earlier PTX8807, the new MPMs between them cover the extended frequency range of 26.5 to 40 GHz, with power outputs of 60 to 160 W (CW/pulsed, 100% duty cycle). The PTX8811 employs a narrower bandwidth, allowing it to be optimised to provide a higher power.



*The compact, low weight PTX8808 and PTX8811 operate in the technically challenging Ka band.*

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### ***Single drop-in unit***

TMD's PTX8808 and PTX8811 employ a Ka band helix, mini-Travelling Wave Tube (TWT) and a matched, high density switched mode power supply to form a single drop-in microwave amplifier unit.



*The PTX8808 and PTX8811 meet the demands of today's high-performance EW and radar systems.*

This arrangement not only eliminates potentially hazardous high voltage TWT interconnections but also, by reducing overall system size, simplifies platform integration procedures. Moreover, replacing a separate TWT and power supply with one MPM eases maintainability logistics and reduces spares holdings.

### **More Features**

User adjustments are not required because the units are already factory adjusted for optimal TWT performance. Also, they can be configured to incorporate a variety of TWT models to meet different user specifications. High electrical efficiency is designed-in, allowing a minimum of cooling and reliable operation over a wide temperature range.

Because the high voltage section is fully encapsulated, the PTX8808 and PTX8811 are able to operate at high altitudes and in high humidity, thereby simplifying integration into a variety of platforms, including airborne applications.

Both of these Ka band units offer remote operation and status monitoring. Weight is just 8.5 kg (19 lbs) maximum.

For more information on these MPMs and other innovative products covering the full frequency band please contact TMD UK [wecare@tmd.co.uk](mailto:wecare@tmd.co.uk) or TMD US [info@tmdus.com](mailto:info@tmdus.com).

**ENDS**

## **TMD Technologies Limited – the leaders in scientific and technical microwave and RF innovation**



*TMD's headquarters design and manufacturing facility in West London, 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, West London it produces specialised transmitters, amplifiers, microwave power modules (MPMs), high voltage power supplies, microwave tubes and transponders 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 is also making on-going and substantial investment in the development of quantum-enabled technology under the UK National Quantum Technologies Programme (UK-NQTP).

Recently, TMD has expanded their investment in the Solid State Power Amplifier MPM space through a partnership with Diamond Microwave LTD, and now has SSPA MPMs available with various output power options from UHF through Ku band.

## TMD Technologies, LLC, USA



*Leader in scientific, professional microwave and high-power RF innovation*

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 team is engaged with promoting the whole range of TMD's products, as well as identifying new business development opportunities in the United States.

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