

6 February 2020

PRESS INFORMATION

Preview for:

EMV 2020

Cologne, Germany
17-19 March 2020

TMD shows *NEW* high power, dual combined version of successful, intelligent modular instrumentation amplifiers - on Stand 519, EMV 2020

At EMV 2020, on Stand 519, TMD Technologies Limited, world-class, West London based manufacturer of professional microwave and RF products, will be demonstrating its exceptional and proven capability in the EMC/EMI field.

Said Imad Gharib, TMD's Sales Manager, RF & Microwave Amplifiers: "EMV is Europe's premier exhibition for visitors to discover electromagnetic compatibility in all its different forms. It gives us the ideal opportunity to present our PTCM Series intelligent TWT (Travelling Wave Tube) instrumentation amplifiers to a wide spectrum of professionals from industry, commerce, defence and science – especially highlighting our new ultra-high power, dual combined version PTCM.





Imad Gharib: “The new Dual Combined PTCM amplifier, featured at EMV 2020, offers ultra-high power - plus all the superior features of the standard PTCM Series.

Experience in power combining techniques

TMD has years of experience in power combining techniques to achieve the higher powers required for the more challenging EMC HIRF (High-Intensity RF) testing applications. This has now enabled the company to offer higher power-combined amplifiers in its advanced PTCM range – with all the standard built-in user benefits, including rugged modular design, advanced self-diagnosis, graphical user interface, and remote management.

Leading to:-

TMD’s new Dual PTCM units - designed for the most demanding EMC HIRF testing applications, deliver more than 10 kW pulsed and greater than 4 kW CW, mainly covering the range 2-18 GHz. This exceptional performance is achieved by combining two TWTs and high voltage power supplies within one rack-mountable amplifier – thus maintaining a single input and output. Looking to the future, TMD is already in the process of developing higher multiple combinations.

Standard, single version PTCM Series – with a host of user benefits

TMD's total capability is exemplified by the recently introduced PTCM Series of intelligent, modular TWT based microwave and RF instrumentation amplifiers. These amplifiers offer the highest performance and a wealth of operational benefits in a compact package. They are suitable for not only EMC/EMI but for many other scientific and medical applications."

The standard PTCM Series units operate over a frequency range from DC to 42 GHz with a power output up to 50 kW. Of standard 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, modular plug and play replaceable printed circuit boards, Ethernet remote control and monitoring, and VSWR reflected power protection. A 'system-on-chip' (SOC) controls and synchronises all power conversion circuitry in real time, together with all the monitoring, control, data logging and user interface functionality.

Military standards:-

Furthermore, the modular 6U system allows several configuration options according to customers' requirements. Built to demanding military standards, with excellent thermal management, the PTCM Series amplifiers provide the highest MTBF.

... and customised units and turnkey systems!

Not only does TMD offer a full range of microwave products for EMC/EMI applications but, as part of its comprehensive support portfolio, it can supply customised units to customers' own specifications, as well as providing full turnkey systems.

Strong TMD Team at EMV 2020

Imad Gharib Sales Manager, RF and Microwave Amplifiers

Andy Crawford Head of Sales, North America

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).

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 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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