

PRESS INFORMATION

30 August 2019

European Microwave 2019
Porte de Versailles,
Paris, France
29 September – 4 October 2019
TMD on Stand B1120



Celebrating 75 Years in Microwaves & RF!

**TMD highlights its PTCM Series instrumentation amplifiers,
now with higher power combined versions**

– plus innovative, modular architecture, RF solid state amplifiers

For a range of applications including EMC/EMI, industrial, laboratory, mainstream scientific, and military programmes.

At European Microwave 2019, TMD Technologies Limited (TMD), specialist London based design and manufacturing company, will be celebrating an outstanding 75 years in the microwave and RF field – highlighting its newest, modular intelligent instrumentation amplifiers for EMC, threat simulation and laboratory use, and the company's latest, innovative RF solid state amplifiers for cutting-edge mainstream science.

Said Steve Humphries, TMD's Territory Manager Europe & Africa: "With its unrivalled 75 year heritage in microwave design and manufacture, TMD will be a

major player at the European Microwave event in Paris in September. As an established international trading company, with strong export credentials, we welcome the opportunity to meet and engage with those involved in the latest microwave developments, as well as industry academics and figureheads – not just from Europe but from around the world.”

Commented Stuart Love, Senior Sales Manager, UK & Europe: “Backed by TMD’s innovative heritage, our design teams have placed us is at the very leading edge of scientific development, working with major universities and research establishments on projects such as ultra-high-power solid state amplifiers for particle accelerators, quantum clock technology and THz devices. Moreover, TMD is synonymous with ultra-reliability, working to the highest MIL SPEC standards to offer top quality products for the microwave commercial, defence, security, medical and scientific markets,”

TMD’s newest PTCM/Dual Combined Series

TMD will be demonstrating its proven capability in the field of EMC/EMI with its PTCM Series instrumentation amplifiers.

“European Microwave 2019 is an important platform for our newest intelligent, modular PTCM Series”, said Imad Gharib, TMD’s Sales Manager Instrumentation Amplifiers. “These advanced TWT (Travelling Wave Tube) based RF instrumentation amplifiers operate over a frequency range from DC to 40 GHz, with a power output up to 50 kW, and are designed to deliver the highest field strengths in the test environment.”

“Furthermore,” continued Imad Gharib, “we can now offer a new ultra-high power, dual combined version of the PTCM amplifier for HIRF testing and other demanding applications across a variety of industry sectors and are already in the process of

developing higher multiple combinations. We continue to see great potential not only for EMC/EMI but for many scientific, military and other applications.”

Of rugged, customizable 6U high rack mounting construction, the standard PTCM Series amplifiers offer superior user interface and maintainability, combined with a host of operational benefits that include modular design, self-diagnostics, graphical user interface, remote management, and VSWR reflected power protection. They are also designed to meet exacting military standards, offering the EMC industries’ highest MTBF.

The newly developed high power, dual combined version of the PTCM amplifier delivers more than 10 kW pulsed and greater than 4 kW CW, mainly covering the 2-18 GHz range. This high performance is achieved by combining two TWTs and high voltage power supplies within one rack mountable amplifier – thus maintaining a single input and output.



TMD’s newly developed high power dual combined PTCM amplifier is now available – with higher multiple combinations to follow.

TMD – making further growth into mainstream science markets with cutting edge solid state RF amplifiers

TMD's modular architecture, solid state RF amplifiers employ innovative power combining methods to provide many user benefits.

These compact systems are typically based on one 19-inch rack / 100 kW (pulse), with frequencies available from 20 MHz to 1.3 GHz. Operating as CW or pulse systems (with long pulse systems available) they have a wall plug efficiency competitive with tube technology.

The highly efficient amplifiers are robustly resistant to VSWR mismatch, are easily maintainable with 'hot swap' availability, and exhibit no loss of power from any single element failure. TMD's extensive portfolio includes high power, very low phase noise travelling wave tube (TWT) amplifiers, brazed UHV components, and electron guns.

Its collaboration with key partner, the Rosatom-NIITFA organisation has enabled TMD to offer a wide range of solid state amplifiers that are revolutionary in design. and now available to customers. Features include hot swap for both RF modules and DC power supplies to maximise system availability. These amplifiers are ideal for many applications, including tetrode amplifier replacement; synchrotrons; LINACs for scientific, experimentation/particle physics and spallation systems; medical therapy equipment; and cyclotrons for radioisotope production – with the ability to upgrade existing systems.



Solid state unit from Rosatom-NIITFA – in collaboration with TMD to offer a range of revolutionary solid state amplifiers.

TMD representatives at European Microwave 2019



L to R: Imad Gharib; Steve Humphries; Stuart Love

Steve Humphries, Territory Manager, Europe & Africa

Stuart Love, Senior Sales Manager, UK & Europe

Imad Gharib, Sales Manager Instrumentation Amplifiers.

TMD Technologies Limited – 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 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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