

PRESS INFORMATION

from TMD Technologies Limited

Preview for:
EMC Europe 2016
Wroclaw, Poland
5-9 September 2016

TMD showcases New PTCM Series instrumentation TWT amplifiers on Stand 19 - for the first time in Europe!

TMD Technologies Limited (TMD), world class microwave and RF manufacturer based in West London, is showcasing its new PTCM Series intelligent, modular travelling wave tube (TWT) RF instrumentation amplifiers on **Stand 19** at EMC Europe 2016.

Offering powers up to 50 kW, and operating over a wide frequency range from DC to 40 GHz, these advanced, compact, yet affordable, rack-mounting amplifiers deliver the highest field strengths in the test environment, and meet the most demanding worldwide standards.

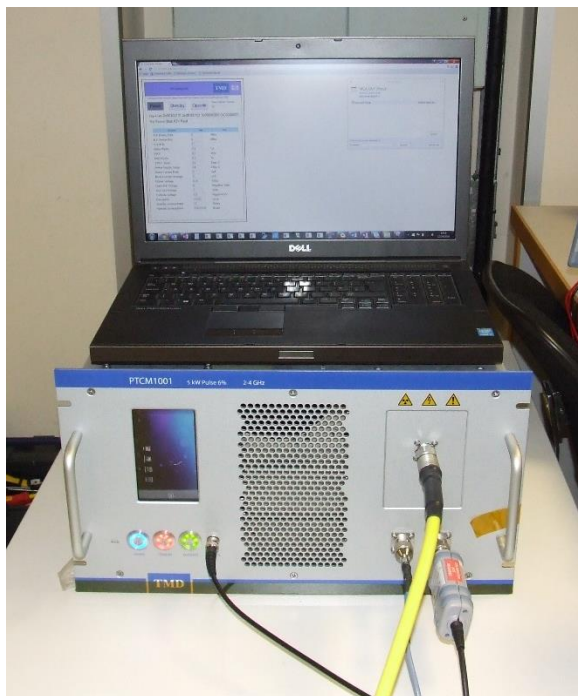
Superior user interface and maintainability – plus a host of operational benefits!



Offering enhanced capability and a host of operational features, the new PTCM Series TWT intelligent instrumentation amplifiers from TMD are unbeatable in their class.

With advanced intelligence and providing superior user interface and maintainability, the PTCM Series are the ideal choice for a range of applications including EMC/radiated immunity, communications, EW, radar, RF component testing and the scientific field.

Said Imad Gharib, TMD’s Sales Manager, Instrumentation Amplifiers: “The new PTCM Series carries on our tradition of designing and producing top performance and ultra-reliable amplifiers – now elevating user interface and maintainability to even higher levels and standards!”



TMD

TMD Technologies Tools

Customer Mode Network Params Assorted Funcs Heater Calib Grid Cathode Calib

Time to heater warmup
WARM

Trip Code 0x00000000 0x00000000 0x00000000 0x00000000

Trip Reason No Current Trip

Parameter	Value	Units
R.F. Power Fwd	19	dBm
R.F. Power Rev	-20	dBm
V.S.W.R.	1	
Pulse Width	0.0	Us
P.R.F.	0.0	kHz
Duty Cycle	0.0	%
T.W.T. Temp	93	Deg. C
Power Supply Temp	-11	Deg. C
Beam Current Peak	0	mA
Body Current Average	0	mA
Heater Voltage	0.00	Volts
Grid OFF Voltage	0	Negative Volts
Grid ON Voltage	0	Volts
Cathode Voltage	0.0	Negative kV
Fan Speed	499	r.p.m.
Standby Accumulated	1412	Hours
Operate Accumulated	161	Hours

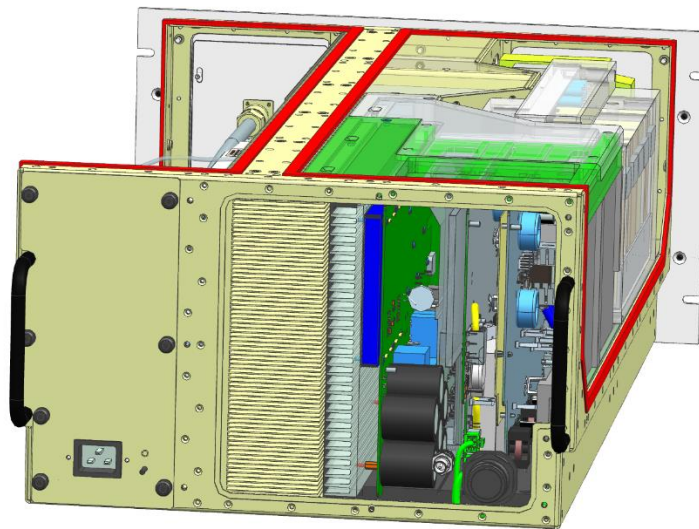
A PTCM TWT amplifier connected to a standard PC via an Ethernet cable and right, detail of the information displayed

Continued Imad: “The new amplifiers have already attracted a great deal of interest at the recent EMC exhibition in Ottawa, where they were launched. We received a substantial number of confirmed leads, with a high potential order value. We are confident that this interest will be repeated at EMC Europe 2016, where we look forward to meeting our many customers and new visitors working in the field of EMC and emerging technologies”.

TMD's most powerful control system to date!

The PTCM Series amplifiers feature built-in self-test; advanced fault diagnosis; modular plug and play field replaceable PCBs; and Ethernet remote control and monitoring – thus should a fault occur the amplifier will immediately identify the problem to reduce downtime.

A truly state of the art 'system on chip' (SOC) microcircuit provides the high intelligence in the PTCM Series. It not only controls and synchronises all the power conversion circuitry in real time, but also provides the intelligence for all the monitoring, control, data logging and user interface functionality.



CAD representation showing the modular power supply, comprising four easily removable PCBs

Furthermore, the digital control PCB that contains the SOC microcircuit represents the heart and brains of the amplifier and is the most powerful control system developed by TMD yet!

These versatile amplifiers will log all operational hours and any tripped states - once again significantly aiding diagnostics and assessing when the unit may be near the end of its long life and due for replacement.

Modular system options, ultra-reliability, and excellent thermal management

A standard, but customizable 6U height chassis and 'soft' re-configurable control system enables a number of options. For example, the PTCM modular system allows high power dual TWT amplifiers at 12 U high to be easily and quickly configured.

The PTCM architecture is based on TMD's well proven ultra-reliable military power supplies. The use of TMD's state of the art cooling system means that TWT generated heat is spread over a large area – reducing peak temperatures and significantly improving MTBF. Also featured is VSWR reflected power protection.

The new PTCM Series is designed to Military Standard 810G Transport, and operates over the temperature range 0°C to +40°C. Dimensions are 19 inch front panel, 6U height, 800 mm width, with a weight of 47 kg.

TMD Team at the Show

TMD UK

Imad Gharib - *Sales Manager, Instrumentation Amplifiers*

Andy Crawford - *Head of After Sales & Support*

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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