

PRESS INFORMATION

27 May 2021

TMD introduces *NEW* solid state, high power MPM for EW and radar

TMD Technologies Limited, independent, world class, West London based manufacturer in the professional microwave and RF field, has announced the addition of a new solid state, power amplifier (SSPA) to its range of innovative products for defence EW and radar applications.

Compact and lightweight, the new broadband PTS10147 operates over the 2-6 GHz frequency range with a high power of 100 W (pulsed or CW) and a linear gain of around 60 dB.



The new PTS10147 offers highest power-to-volume ratio.

Employs state-of-the-art GaN technology.

The excellent power performance and very compact and lightweight construction of the PTS10147 has been achieved by employing gallium nitride (GaN) high power transistors in the output and driver stages. Furthermore, this design provides the benefit of a power-to-volume ratio that is probably the highest on the market for such a product.

Well suited to an EW role

Designed with demanding electronic warfare (EW) applications in mind, the PTS10147 is particularly effective in electronic attack (jamming) roles - enabling defence customers to experience the full benefit of wideband, solid state power amplifier technology.

Moreover, its small size and weight - combined with high power - means that it is ideal in radar or EW installations used in UAVs, drones, or man-portable systems.

Flexibility of design – with the customer in mind

The PTS10147 is flexible in layout and architecture, and both electrical and mechanical interfaces can be tailored to meet individual customer specification requirements.

The amplifier is normally supplied without a heat sink or any thermal management assembly. However, TMD can supply tailored heat sinks customised to suit specific requirements.

Small size, low weight, wide operating temperature.

Weight of the PTS10147 is just 0.75 kg nominal, with a small size of 137 x 120 x 24 mm (excluding connectors).

The wide operating temperature is from -40 degrees C to +60 degrees C. Prime power is 28 V d.c.

For more information on these MPMs and other innovative products please contact TMD UK wecare@tmd.co.uk or TMD US 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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