

MACOM Introduces Broadband, Multistage GaN-on-Si Power Amplifier Module with Flexible Mounting Capability for Leading Design Agility

- *10W fully-matched, two-stage PA covers the 225 – 2600 MHz frequency range*
- *Top-side and bottom-side mounting flexibility streamlines designs for smaller, lighter radios*
- *MACOM's MAMG-100227-010 PAs are available to customers today*

Lowell, Massachusetts, January 22, 2019— [MACOM Technology Solutions Inc.](#) (“MACOM”), a leading supplier of semiconductor solutions, has expanded its GaN-on-Si power amplifier portfolio with the introduction of its new [MAMG-100227-010](#) broadband PA module optimized for use in land mobile radio (LMR) systems, wireless public safety communications and military tactical communications and electronic countermeasures (ECM). Combining the design efficiencies of a fully-matched (50 Ω), two-stage PA architecture with top-side and bottom-side mounting configurability, the MAMG-100227-010 is poised to enable unprecedented design flexibility for radios balancing stringent size, weight and power (SWaP) specifications.

The new MAMG-100227-010 leverages high-performance MACOM GaN-on-Si to achieve an extremely wide frequency bandwidth of 225 – 2600 MHz, with 10W CW output power, 40% typical power added efficiency (PAE) over the band, 22 dB typical power gain, and up to 36V operation (28V typical). Provided in a compact 14x18 mm air-cavity laminate package with integrated gold-plated copper heatsink, the MAMG-100227-010 can eliminate the need for additional componentry and PCB space required for unmatched PA architectures, with top and bottom accessibility for improved mounting and heatsinking agility.

“The MAMG-100227-010 builds on MACOM’s rich legacy of providing high-performance GaN-on-Si solutions with field-proven reliability,” said Mark Murphy, Senior Director of Marketing, RF Power and Basestation, MACOM. “For customers seeking exceptional design flexibility, the MAMG-100227-010 exemplifies the design and application expertise that MACOM provides across a wide range of broadband frequencies and power levels.”

For over 60 years, MACOM’s design and applications experts have spearheaded innovation in the RF, microwave and millimeterwave domain, developing the industry’s broadest portfolio of components spanning the entire RF signal chain. Leveraging advanced, proprietary technologies, MACOM’s heterogeneous semiconductor and packaging strategy ensures that each individual RF system function is fully optimized to deliver maximum performance at the appropriate cost. MACOM remains firmly committed to delivering true

competitive advantage to our customers, providing superior technology, expertise, cost structures and supply chains – with no compromises.

MAMG-100227-010 power amplifier modules are available to customers today. For assistance identifying MACOM products optimized to substitute or replace offerings from other vendors, visit MACOM's [Cross Reference tool](#). For more information about the MAMG-100227-010, please visit <https://www.macom.com/products/product-detail/MAMG-100227-010COL>

ABOUT MACOM:

MACOM enables a better-connected and safer world by delivering breakthrough semiconductor technologies for optical, wireless and satellite networks that satisfy society's insatiable demand for information.

Today, MACOM powers the infrastructure that millions of lives and livelihoods depend on every minute to communicate, transact business, travel, stay informed and be entertained. Our technology increases the speed and coverage of the mobile Internet and enables fiber optic networks to carry previously unimaginable volumes of traffic to businesses, homes and datacenters.

Keeping us all safe, MACOM technology enables next-generation radars for air traffic control and weather forecasting, as well as mission success on the modern networked battlefield. MACOM is the partner of choice to the world's leading communications infrastructure, aerospace and defense companies, helping solve their most complex challenges in areas including network capacity, signal coverage, energy efficiency and field reliability, through its best-in-class team and broad portfolio of analog RF, microwave, millimeterwave and photonic semiconductor products.

MACOM is a pillar of the semiconductor industry, thriving for more than 60 years of daring to change the world for the better, through bold technological strokes that deliver true competitive advantage to customers and superior value to investors.

Headquartered in Lowell, Massachusetts, MACOM is certified to the ISO9001 international quality standard and ISO14001 environmental management standard. MACOM has design centers and sales offices throughout North America, Europe and Asia.

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This press release contains forward-looking statements based on MACOM's beliefs and assumptions and on information currently available to MACOM. These forward-looking statements reflect MACOM's current views about future events and are subject to risks, uncertainties, assumptions and changes in circumstances that may cause those events or our actual activities or results to differ materially from those expressed in any forward-looking statement. Although MACOM believes that the expectations reflected in the forward-looking statements are reasonable, it cannot and does not guarantee future events, results, actions, levels of activity, performance or achievements. Readers are cautioned not to place undue reliance on these forward-looking statements. A number of important factors could cause actual results to differ materially from those indicated by the forward-looking statements, including, but not limited to, those factors described in "Risk Factors" in MACOM's Annual Report on Form 10-K, Quarterly Reports on Form 10-Q and other filings with the Securities and Exchange Commission. MACOM undertakes no obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future events or otherwise.

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