



Partners from RF to Light

September 9, 2015

MACOM Announces 4th Generation 100W GaN on Silicon Wideband Transistor

MACOM's New MAGX-100027-100C0P Features Optimal Efficiency and Gain Performance

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. ("MACOM") (NASDAQ: MTSI), a leading supplier of high performance analog RF, microwave, and optical semiconductor products, today announced the new [MAGX-100027-100C0P](#), a wideband transistor optimized for DC-2.7 GHz operation and built using proprietary 4th generation GaN on Silicon (GaN on Si) process is sampling today. This GaN on Si HEMT D-Mode transistor is ideally suited for defense communications, land mobile radio, avionics, wireless infrastructure, ISM applications and VHF/UHF/L/S-band radar.

This Smart News Release features multimedia. View the full release here: <http://www.businesswire.com/news/home/20150909005057/en/>



The MAGX-100027-100C0P supports CW, pulsed, and linear operation with output power levels up to 100 W (50 dBm). Featuring 50 V operation, this device offers CW operation of 18.3 dB gain at 2.45 GHz, and 70% drain efficiency. For pulsed operation, the MAGX-100027-100C0P boasts 18.4 dB gain at 2.7 GHz and 71% drain efficiency. This 100% RF tested transistor is available in an industry standard plastic package with bolt down flange.

Delivering performance that rivals expensive GaN on Silicon Carbide (GaN on SiC) at a projected volume production cost structure below that of incumbent LDMOS technology, 4th generation GaN (Gen4 GaN) is positioned to break the final technical and commercial barriers to mainstream GaN adoption. Gen4 GaN delivers greater than 70% peak efficiency and 19 dB gain for modulated signals at 2.7 GHz, which is similar to GaN on SiC technologies, and more than 10 percentage points greater efficiency than LDMOS. It also delivers power density that is more than four times that of LDMOS.

The MAGX-100027-100C0P supports CW, pulsed, and linear operation with output power levels up to 100 W (50 dBm). Featuring 50 V operation, this device offers CW operation of 18.3 dB gain at 2.45 GHz, and 70% drain efficiency. (Photo: Business Wire)

"This Gen4 GaN transistor provides optimal performance for customers," said Gary Lopes, Product Manager, MACOM. "The MAGX-100027-100C0P is an ideal candidate for customers looking to support rugged applications and experience the solid reliability that is offered by MACOM GaN solutions. Gen4 GaN products extend the innovation and commercialization trajectories of earlier generations of GaN on Si, which have demonstrated clear, field-proven reliability in harsh environmental conditions for more than five years."

The table below outlines typical performance:

Parameters	Units	MAGX-100027-100C0P
Frequency	GHz	DC-2.7
Small Signal Gain	dB	18.3 CW, 18.4 Pulsed
Saturated Output Power	dBm	50.7-50.9
Drain Efficiency	%	70-71
Power Gain	dB	16

To learn more about the [MAGX-100027-100C0P](#) visit MACOM's booth #235 at [EuMW 2015](#), September 8 - 10, 2015 in Paris, France. The MAGX-100027-100C0P is now available for sample. Final datasheets and additional product information can be obtained from the MACOM website at: www.macom.com

ABOUT MACOM

M/A-COM Technology Solutions Holdings, Inc. (www.macom.com) is a leading supplier of high performance analog RF, microwave, millimeterwave and photonic semiconductor products that enable next-generation Internet and modern battlefield applications. Recognized for its broad catalog portfolio of technologies and products, MACOM serves diverse markets, including high speed optical, satellite, radar, wired & wireless networks, automotive, industrial, medical, and mobile devices. A pillar of the semiconductor industry, we thrive on more than 60 years of solving our customers' most complex problems, serving as a true partner for applications ranging from RF to Light.

Headquartered in Lowell, Massachusetts, M/A-COM Tech is certified to the ISO9001 international quality standard and ISO14001 environmental management standard. M/A-COM Tech has design centers and sales offices throughout North America, Europe, Asia and Australia.

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Special Note Regarding Forward-Looking Statements

This press release contains forward-looking statements based on MACOM management's beliefs and assumptions and on information currently available to our management. Forward-looking statements include, among others, information concerning our stated business outlook and future results of operations, our anticipated successful commercialization and expansion of our Gallium Nitride on Silicon (GaN on Si) technology portfolio, future activities or trends, business strategies, competitive position, industry conditions, acquisitions and market opportunities. Forward-looking statements include all statements that are not historical facts and generally may be identified by terms such as "anticipates," "believes," "could," "estimates," "expects," "intends," "may," "plans," "potential," "predicts," "projects," "seeks," "should," "will," "would" or similar expressions and the negatives of those terms.

Forward-looking statements contained in this press release 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 greater than expected dilutive effect on earnings of our equity issuances, outstanding indebtedness and related interest expense and other costs, the potential that the expected rollout of fiber-to-the-home network technology or other new network technology deployments in China and other geographies fails to occur, occurs more slowly than we expect or does not result in the amount or type of new business we anticipate, lower than expected demand in any or all of our primary end markets or from any of our large OEM customers based on seasonal effects, macro-economic weakness or otherwise, indemnity claims related to or failure to realize the projected benefits of our Automotive business divestment, our failure to realize the expected economies of scale, lowered production cost and other anticipated benefits of our previously announced GaN intellectual property licensing program or InP laser production capacity expansion program, the potential for defense spending cuts, program delays, cancellations or sequestration, failures or delays by any customer in winning business or to make purchases from us in support of such business, lack of adoption or delayed adoption by customers and industries we serve of GaN, InP lasers or other solutions offered by us, failures or delays in porting and qualifying GaN or InP process technology to our Lowell, MA fabrication facility or third party facilities, lower than expected utilization and absorption in our manufacturing facilities, lack of success or slower than expected success in our new product development efforts, loss of business due to competitive factors, product or technology obsolescence, customer program shifts or otherwise, lower than

anticipated or slower than expected customer acceptance of our new product introductions, the potential for a shift in the mix of products sold in any period toward lower-margin products or a shift in the geographical mix of our revenues, the potential for increased pricing pressure based on competitive factors, technology shifts or otherwise, the impact of any executed or abandoned acquisition, divestiture, joint venture, financing or restructuring activity, the impact of supply shortages or other disruptions in our internal or outsourced supply chain, the impact of changes in export, environmental or other laws applicable to us, the relative success of our cost-savings initiatives, the potential for inventory obsolescence and related write-offs, the expense, business disruption or other impact of any current or future investigations, administrative actions, litigation or enforcement proceedings we may be involved in, the potential loss of access to any in-licensed intellectual property or inability to license technology we may require on reasonable terms, the impact of any claims of intellectual property infringement or misappropriation, which could require us to pay substantial damages for infringement, expend significant resources in prosecuting or defending such matters or developing non-infringing technology, incur material liability for royalty or license payments, or prevent us from selling certain of our products, and any failure in the effectiveness of our internal control over financial reporting or disclosure controls and procedures, as well as those factors described in "Risk Factors" in MACOM's filings with the SEC, including its Quarterly Report on Form 10-Q for the fiscal quarter ended July 3, 2015 as filed with the SEC on August 12, 2015. 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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