



Partners from RF to Light

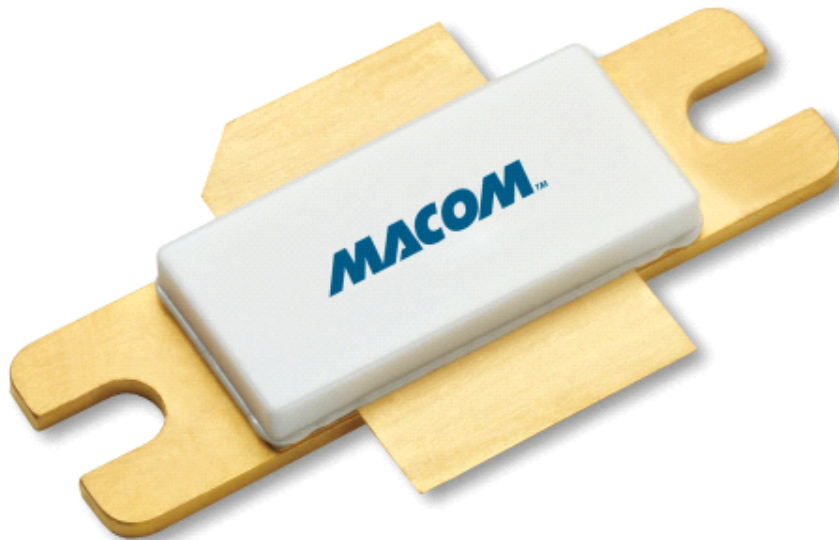
October 10, 2017

## MACOM Sets New Benchmark for GaN Performance and Efficiency with New 500W GaN-on-Si Power Transistor for L-Band Airport Surveillance Radar (ASR) Applications

- | *New MAGX-101214-500 delivers highest efficiency among competing devices*
- | *Expanding L-Band product portfolio maintains highest standards for reliability, at scalable power levels*
- | *MAGX-101214-500 power transistors are sampling to customers today; product to be showcased at EuMW 2017*

LOWELL, Mass.--(BUSINESS WIRE)-- [MACOM Technology Solutions Inc.](http://www.macom.com) ("MACOM") today announced the newest entry in its GaN-on-Si power transistor portfolio for pulsed L-Band radar systems targeted for airport surveillance radar (ASR) applications at 1.2 to 1.4 GHz. Delivering industry-leading efficiency at peak pulse power levels up to 500W, the new [MAGX-101214-500](http://www.macom.com) is expected to outperform premium-priced GaN-on-SiC-based transistors, and far exceed the performance, efficiency and power density of legacy LDMOS-based devices.

This press release features multimedia. View the full release here: <http://www.businesswire.com/news/home/20171010005525/en/>



MACOM's new MAGX-101214-500 enables customers to scale to higher power levels across a host of ASR applications, delivering 500W output power and greater than 70% power efficiency under pulsed conditions at 50V operation. Supplied in a small-footprint ceramic flanged package and supporting matching structures that minimize circuit size, MAGX-101214-500 transistors help to enable rugged, compact radar systems underpinned with efficient, simplified cooling and power supply architectures. (Photo: Business Wire)

achieving performance profiles that meet and exceed GaN-on-SiC, at significantly less cost at scaled volume production levels," said Greg French, Senior Product Manager, RF Power, at MACOM. "Our proven technology leadership in GaN-on-Si combined with our decades-long heritage in civil and defense radar are among the many factors fueling our innovation in these important markets, as evidenced by the new MAGX-101214-500."

MACOM will showcase the MAGX-101214-500 at European Microwave Week (EuMW), October 10-12, Nuremberg, Germany, at MACOM booth #200. Products are sampling to customers today, with production release targeted for 1H 2018. For more information on MACOM's technology leadership in GaN, visit <https://www.macom.com/gan>

MACOM's new [MAGX-101214-500](http://www.macom.com) enables customers to scale to higher power levels across a host of ASR applications, delivering 500W output power and greater than 70% power efficiency under pulsed conditions at 50V operation. Supplied in a small-footprint ceramic flanged package and supporting matching structures that minimize circuit size, MAGX-101214-500 transistors help to enable rugged, compact radar systems underpinned with efficient, simplified cooling and power supply architectures.

The MAGX-101214-500 builds on the established success of MACOM's comprehensive portfolio of GaN-on-Si power transistors, which have demonstrated field-proven reliability in harsh environmental conditions. To date, over one million MACOM GaN-on-Si devices have been shipped to customers around the world.

"The continued expansion of MACOM's GaN-on-Si product portfolio enables customers to address an ever-widening range of RF power requirements while

## **ABOUT MACOM:**

MACOM is a new breed of analog semiconductor company — one that delivers a unique combination of high growth, diversification and high profitability. We are enabling 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 data centers.

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 and 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 RF, microwave, millimeterwave and lightwave 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, Asia and Australia.

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