



Partners in RF & Microwave

August 5, 2014

MACOM Announces Industry's Highest Power GaN L-Band Radar Transistor

650 W Peak Power GaN on SiC Transistor Provides High Gain, Efficiency & Ruggedness over 1.2-1.4 GHz

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. (M/A-COM), a leading supplier of high performance analog semiconductor solutions, introduced today a new GaN on SiC HEMT Power Transistor for L-Band pulsed radar applications.

The [MAGX-001214-650L00](#) is a gold-metalized pre-matched GaN on Silicon Carbide transistor that offers the highest peak power in the industry for a single-ended power transistor optimized for pulsed L-Band radar applications. The [MAGX-001214-650L00](#) guarantees 650 W of peak power with a typical 19.5 dB of gain and 60% efficiency. The device also boasts very high breakdown voltages which allow customers reliable and stable operation at 50 V under more extreme load mismatch conditions. The device is assembled in a high performance ceramic flange package and has undergone MACOM's rigorous qualification and reliability testing, which offers customers state of the art power with rugged performance that is ideally suited to today's demanding radar applications.

"The MAGX-001214-650L00 is a clear leader in high pulsed power GaN technology with guaranteed 650 W of peak output power combined with excellent gain, efficiency and reliable performance," said Paul Beasley, Product Manager. "The device is an ideal candidate for customers looking to combine two power transistors and realize over 1,000 W of peak power in a single pallet for next generation L-Band radar systems that require increased performance in smaller footprints."

Operating between the 1200 MHz - 1400 MHz Frequency range, the [MAGX-001214-650L00](#) is a highly robust transistor, boasting a mean time to failure (MTTF) of 5.3×10^6 hours.

The table below outlines typical performance:

	Units	MAGX-001214-650L00
Frequency	MHz	1200-1400
Pout (min)	W	650
Gain	dB	19.5
Efficiency	%	60
Pulse	µs	300
Duty	%	10
Pulse Droop	dB	0.3

Samples of [MAGX-001214-650L00](#) are available from stock. Final datasheets and additional product information can be obtained from the M/A-COM 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, and millimeter wave 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, CATV, 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.

MACOM, M/A-COM, M/A-COM Technology Solutions, M/A-COM Tech, Partners in RF & Microwave, The First Name in Microwave and related logos are trademarks of MACOM. All other trademarks are the property of their respective owners.

For more information about MACOM, please visit www.macom.com follow [@MACOMtweets](https://twitter.com/MACOMtweets) on Twitter; join MACOM on [LinkedIn](#), or visit the MACOM [YouTube Channel](#).

DISCLAIMER FOR NEW PRODUCTS:

Any express or implied statements in MACOM product announcements are not meant as warranties or warrantable specifications of any kind. The only warranty MACOM may offer with respect to any product sale is one contained in a written purchase agreement between MACOM and the purchaser concerning such sale and signed by a duly authorized MACOM employee, or, to the extent MACOM's purchase order acknowledgment so indicates, the limited warranty contained in MACOM's standard Terms and Conditions for Quotation or Sale, a copy of which may be found at: www.macom.com/support.

Photos/Multimedia Gallery Available: <http://www.businesswire.com/multimedia/home/20140805005432/en/>

FOR SALES INFORMATION:

North Americas -- Phone: 800-366-2266

Europe -- Phone: +353-21-244-6400

India -- Phone: +91-80-43537383

China - Phone: +86-21-2407-1588

or

MEDIA:

M/A-COM Technology Solutions Inc.

Husrav Billimoria, 978-656-2896

Husrav.Billimoria@macom.com

or

Rainier Communications

Jessie Glockner, 508-475-0025 x140

jglockner@rainierco.com

or

embedded PR

Gerlinde Knoepfle, +49 (0)89 64913634-12

gk@embedded-pr.de

Source: M/A-COM Technology Solutions Inc.

News Provided by Acquire Media