



Partners from RF to Light

September 8, 2016

## MACOM Expands High-Performance MMIC Portfolio with the Addition of Two Industry Leading Wideband Amplifiers

*The MAAM-011229 and MAAM-011206 are fully matched and current adjustable amplifier solutions for Multi-market applications ranging from Land Mobile Radio to Wired Broadband*

LOWELL, Mass.--(BUSINESS WIRE)-- MACOM Technology Solutions Inc. ("MACOM"), a leading supplier of high-performance analog RF, microwave, millimeterwave and photonic semiconductor products and components, today introduced two wideband amplifiers, the MAAM-011229, a Low Noise Amplifier, and the MAAM-011206, a Darlington amplifier, to its growing portfolio of high-performance MMICs.

For over 60 years, MACOM's design and applications experts have spearheaded innovation in the RF, microwave and millimeterwave domain. Proven engineering and technical support teams are continuing in this legacy with a next generation of wide band MMIC solutions designed for the most demanding customer applications.

The new **MAAM-011206** is a versatile, Broadband Darlington Amplifier operating from DC to 15 GHz. This device outperforms competitive parts with superior frequency range, higher gain of 14 dB, improved return loss of > 15 dB and higher output power drive of 20 dBm P1dB. Housed in a small, 1.5 x 1.2 mm plastic SMT package, the MAAM-011206 is compatible with standard pick and place assembly equipment. Functional operation is achieved with single bias from +3 V to +5 V and has the option for current adjustment with an external bias resistor. Boasting industry leading specs such as Gain and return loss, this amplifier enables real estate constrained customers a superior solution with greater versatility for Test and Measurement, Land Mobile Radios and Wireless and Satellite Communications.

The new **MAAM-011229** is a 3-5V Broadband Low Noise Amplifier (LNA) covering the frequency of 0.05 to 4 GHz. This 50Ω LNA provides flat gain and excellent return losses to 3.25 GHz and out to 4 GHz with a 1.2 dB roll off while keeping Noise Figure below 2 dB. Simple matching and bias circuit, along with active bias enables the 2mm 8 lead MAAM-011229 to be an excellent, multi-market amplifier for customers.

"We are pleased to announce the first of many high-performance MMIC families with these current adjustable, fully matched surface mount devices," Graham Board, Senior Director, RF and Microwave, at MACOM. "These two devices are just a fraction of MACOM's expanding product portfolio that ranges from DC-100GHz. We're committed to enabling our customers' applications and helping them solve their most challenging design needs."

Parameter	Units	MAAM-011229	MAAM-011206
Frequency	GHz	0.05-4	DC-15
Gain	dB	19	14.5
Noise Figure	dB	1.2	4
Input Return Loss	dB	16	15
Output Return Loss	dB	14	15
Packaging		Lead-Free 2 mm, 8-Lead PDFN	Lead-Free 1.5 x 1.2 mm, 6-Lead PDFN

Samples of the **MAAM-011206** and **MAAM-011229** are now available. Additional product information can be obtained from the MACOM website at: [www.macom.com](http://www.macom.com).

MACOM is showcasing its new portfolio of high-performance MMICs at European Microwave Week (EuMW) 2016 in London. Attendees can visit MACOM at stand #207. For more information on MACOM's high-performance MMICs, please visit: [www.macom.com/mmics](http://www.macom.com/mmics).

### 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, Asia and Australia.

MACOM, M/A-COM, M/A-COM Technology Solutions, M/A-COM Tech, Partners in RF & 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](http://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:

<http://www.macom.com/purchases>

**FOR SALES INFORMATION, PLEASE CONTACT:**

North Americas - Phone: 800.366.2266

Europe - Phone: +353.21.244.6400

India - Phone: +91.80.43537383

China - Phone: +86.21.2407.1588

View source version on [businesswire.com](http://www.businesswire.com): <http://www.businesswire.com/news/home/20160908006625/en/>

MACOM Technology Solutions Inc.

Ozzie Billimoria, 978-656-2896

[ozzie.billimoria@macom.com](mailto:ozzie.billimoria@macom.com)

or

Rainier Communications

Colin Boroski, 508-475-0025 x142

[cboroski@rainierco.com](mailto:cboroski@rainierco.com)

or

embedded PR

Anja-Maria Hastenrath, +49 (0)89 64913634-11

[ah@embedded-pr.de](mailto:ah@embedded-pr.de)

Source: MACOM Technology Solutions Inc.

News Provided by Acquire Media