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MACOM Launches High Linearity Family of Power Amplifiers for SATCOM Applications

Features highly integrated L-Band amplifier module supporting longer battery life in SATCOM applications, and a family of industry leading linear Ka-Band amplifiers ranging from 2 to 6 watts

LOWELL, Mass.--(BUSINESS WIRE)-- MACOM Technology Solutions Inc. ("MACOM"), a leading supplier of high-performance analog RF, microwave, millimeterwave, photonic semiconductor products and components, today further expanded its growing high-performance MMIC portfolio with a family of power amplifiers optimized for L-Band and Ka-Band systems. The family boasts gain blocks, drivers and power amplifier functions ranging from 2 watts to 6 watts in output power. Featured products in the family are the 2 watt MAAP-011060 L-Band power amplifier module and the 3 watt MAAP-011289 Ka-Band power amplifier which are designed for satellite communication and connectivity applications.

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As the insatiable demand for increased data rates and bandwidth continues to drive requirements for higher power, higher frequency and higher linearity MMICs, MACOM is ideally positioned to be the partner of choice for both catalog and custom SATCOM solutions.(Photo: Business Wire)

For over 60 years, MACOM's design and application experts have spearheaded innovation in the RF, microwave and millimeterwave domain. MACOM's proven engineering and technical support teams are advancing this legacy with a new generation of MMIC solutions designed for the most demanding customer applications. Leveraging state-of-the-art foundry technologies and proprietary in-house processes, MACOM has pioneered a new class of high-performance MMICs spanning product categories from amplifiers, frequency converters and control products to frequency sources and detectors, encompassing the entire block diagram from signal generation, amplification and conditioning to conversion and monitoring.

The MAAP-011060 is a 2 W power amplifier module operating at 1.6 GHz and packaged in a lead-free 6 mm 12-lead LGA package. This device is a highly integrated module for L-Band satellite communications making it ideal for customers looking for a very linear and efficient solution for satellite phones or mobile Internet connectivity. The MAAP-011060 provides 33 dBm of linear output power, high gain of 30 dB and convenient power-down function. The power amplifier module is operated with a single positive bias and delivers greater than 30 % power added efficiency which supports longer battery life for critical satellite communication equipment.

The MAAP-011289 is a Ka-Band 3 W power amplifier housed in a lead-free 5 mm QFN package. The device delivers a highly linear solution which is ideally suited to next generation commercial VSAT outdoor units, which provide increased data rates of connectivity to end users. The amplifier boasts 20 dB typical gain, 26 % power added efficiency and saturated power of 35 dBm. The MAAP-011289 is the newest member of an industry leading, highly linear family of Ka-Band line-ups which include 2, 3, 4 and 6W power amplifiers as well as gain blocks, drivers and frequency converters, offering customers a complete line-up and versatile options for SATCOM systems.

"At MACOM, we are passionate about providing industry leading products, which help solve our customers' most complex engineering challenges. With the addition of the MAAP-011289, MAAP-011060, and the soon to be launched MAFC-011009, we continue to expand our industry leading portfolio of SATCOM MMICs," said Graham Board, Senior Director, Multi-Market Products, at MACOM. "As the insatiable demand for increased data rates and bandwidth continues to drive requirements for higher power, higher frequency and higher linearity MMICs, MACOM is ideally positioned to be the partner of choice for both catalog and custom SATCOM solutions."

The table below outlines typical performance for the MAAP-011289 and MAAP-011060:

Parameter	Units	MAAP-011289	MAAP-011060
Frequency	GHz	28-30.5	1.616-1.627
Gain	dB	20	30
Output IP3	dBm	35	33
PAE	%	26	> 30
Package		5 mm QFN Package	6 mm 12-lead LGA Package

Samples of the **MAAP-011289** and **MAAP-011060** are now available. Additional product information can be obtained from the MACOM website at: www.macom.com.

MACOM is showcasing its new portfolio of high-performance MMICs at European Microwave Week (EuMW) 2016 in London from October 4th - October 6th, 2016. Attendees can visit MACOM at stand #207. For more information on MACOM's high-performance MMICs, please visit: 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.

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