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MACOM Extends Wired Broadband Portfolio with High Linearity Reverse Path Variable Gain Amplifier

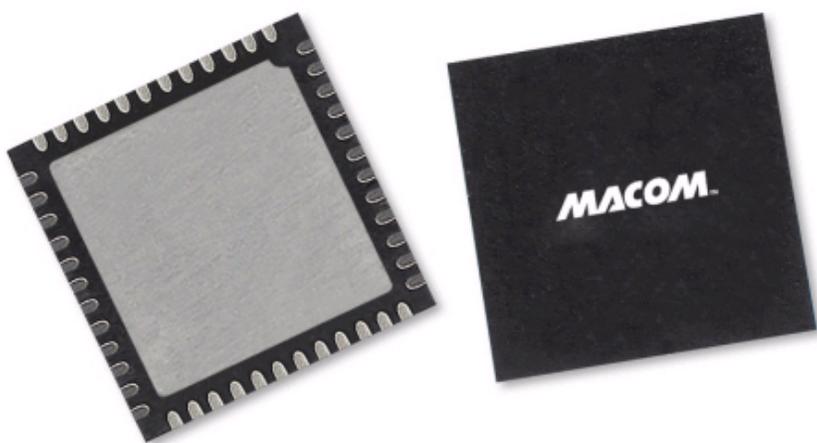
This Variable Gain Amplifier boasts excellent linearity and output power for DOCSIS 3.1 network access equipment

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Holdings Inc. ("MACOM"), a leading supplier of high performance RF, microwave, and millimeter wave products, today announced an integrated two stage differential amplifier for DOCSIS 3.0 and 3.1 reverse path infrastructure equipment.

The MAAM-011186 is designed for customers who require a highly linear variable gain amplifier (VGA) solution for network access equipment and Head-ends in the Hybrid Fiber Coax (HFC) system.

This device offers 39dB of gain and 3dB of noise figure with 31.5dB attenuation range all delivered in a single 7mm RoHS compliant PQFN package.

The [MAAM-011186](#) is an integrated two stage differential amplifier with embedded digital step attenuator. The amplifier delivers 36dB MER performance loaded with 39 channels at 52dBmV per channel. Nominal power dissipation is a low 2.2 watts in a small 7mm PQFN package making this an ideal solution for high density cards and compact system amplifiers. The MAAM-011186 is an ideal solution to replace legacy discrete solutions.



Covering 5 to 300 MHz in a 7mm PQFN, this device delivers 22dB of input and output return loss. The device can function off either an 8V or 5V voltage supply to provide the ultimate versatility to the system designer. (Photo: Business Wire)

"The MAAM-011186 greatly simplifies reverse path amplifier design by integrating 39dB of Gain with a 6 bit digital step attenuator (DSA) in a single 7mm PQFN package," said Graham Board, Product Line Manager, Networks and Wired Broadband. "This part will help to future proof systems by covering existing reverse path bands along with the new high band reverse path for DOCSIS3.1. Combining MACOM's MMIC expertise with in-house balun solutions, allows us to deliver a truly market leading system solution."

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The table below outlines typical performance:

Parameter	Units	MAAM-011186
Frequency Range(RF)	MHz	5-300
Gain	dB	39.0
Noise Figure	dB	3.0
Voltage Operation	V	5 or 8
Input Return Loss	dB	22
Output Return Loss	dB	22
Attenuation Range	dB	31.5
Packaging	mm	7

Production quantities and samples of MAAM-011186 are available from stock. 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, 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.

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Photos/Multimedia Gallery Available: <http://www.businesswire.com/multimedia/home/20140701005122/en/>

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