



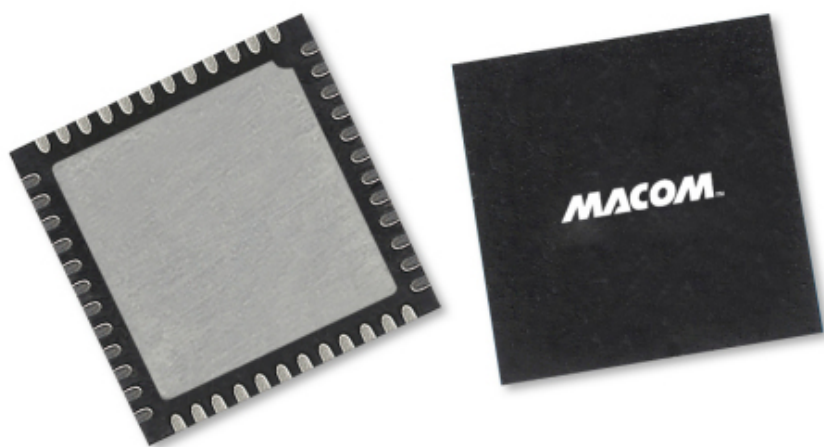
Partners in RF & Microwave

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MACOM Technology Solutions Extends CATV Portfolio with Highly Linear Variable Gain Amplifier at ANGACOM 2013 Exhibition and Congress

Two stage differential amplifier boasts industry leading linearity and power for DOCSIS3.1 reverse path applications

COLOGNE, Germany--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. (MACOM), a leading supplier of high performance analog semiconductor solutions, introduced today at the ANGACOM 2013 Exhibition and Congress, a highly linear two stage differential amplifier for DOCSIS3.1 reverse path infrastructure applications.



The [MAAM-011122](#) is an integrated two stage differential variable gain amplifier designed specifically for CATV head-end, and system amplifier infrastructure reverse path applications. This multi-chip module VGA leverages leading edge technologies providing best in class linearity and high output power. This enables customers to achieve 36dB MER for 64 QAM modulation with 39 channels at 52 dBmV per channel. Unlike the competition, this device offers a power down function for each of the amplifier stages allowing reduced power consumption (green operation), when less gain is required. This configurability makes the MAAM-011122 an ideal solution to replace legacy Silicon and GaAs solutions for upcoming DOCSIS3.1 upgrades.

The MAAM-011122 greatly simplifies reverse path system design by integrating 39dB of Gain with 31.5dB attenuation range in a single 7mm plastic QFN package (Photo: Business Wire)

"The MAAM-011122 greatly simplifies reverse path system design by integrating 39dB of Gain with 31.5dB attenuation range in a single 7mm plastic QFN package," said Graham

Board, Product Manager. "This part will help future proof systems by covering existing reverse path frequencies along with the new DOCSIS3.1 requirements. The VGA delivers high linearity at an efficient 2.2W, making it ideal for compact amplifiers and high density head-ends."

The table below outlines typical performance:

Parameters	Unit	MAAM-011122
Frequency	MHz	5-300
Gain	dB	39
Noise Figure	dB	3
Input Return Loss	dB	22
Output Return Loss	dB	22
Reverse Isolation	dB	50
Attenuation Range	dB	31.5
P1dB	dBm	27
OIP2	dBm	70
OIP3	dBm	42

Operating between the 5 — 300 MHz frequency range, The MAAM-011122 exhibits strong performance with 3 dB low Noise Figure and 39 dB Gain. Packaged in a 7mm 48-Lead PQFN, the amplifier boasts low harmonics with differential input and output control - altogether making it an excellent solution for customers looking for an amplifier solution for DOCSIS3.1 reverse path infrastructure applications.

Samples of MAAM-011122 are available from stock. Final datasheets and additional product information can be obtained from the MACOM website at: www.macomtech.com.

To find out more about the MAAM-011122 as well as MACOM's extensive CATV product portfolio, come visit us at Booth V16 Level 10.1 at the ANGACOM Cable Show, June 4-6 Cologne Germany. For more information about the show click here: [MACOM at ANGACOM'13](#)

ABOUT MACOM

M/A-COM Technology Solutions (www.macomtech.com) is a leading supplier of high performance analog semiconductor solutions for use in radio frequency (RF), microwave, and millimeter wave applications. Recognized for its broad portfolio of products, MACOM serves diverse markets, including CATV, wireless infrastructure, optical communications, aerospace and defense, automotive, industrial, medical, and mobile devices. MACOM builds on more than 60 years of experience designing and manufacturing innovative product solutions for customers worldwide.

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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Photos/Multimedia Gallery Available: <http://www.businesswire.com/multimedia/home/20130604005558/en/>

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