



Partners in RF & Microwave

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MACOM Launches New X-Band High Power Amplifiers for Commercial Radar and Communication Applications

Two-stage and three-stage MMIC Amplifiers Boast up to 41dBm of Saturated Pulsed Output Power and 40% Power Added Efficiency

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. ("MACOM"), a leading supplier of high performance RF, microwave, and millimeter wave products, today announced two new high power MMIC amplifiers ideal for X-Band communication and radar applications.



The [MAAP-015030](#) two stage 8.5 - 11.75 GHz GaAs MMIC power amplifier has a saturated pulsed output power of 41dBm, a large signal gain of 21dB and 40% power added efficiency. The power amplifier can be biased using a direct gate voltage or using an on chip gate bias circuit providing an excellent bare die solution for high power X-Band applications.

The [MAAP-015035](#) is a three stage 8.5 - 11.5 GHz GaAs pHEMT MMIC power amplifier capable of achieving a saturated pulsed output power of 41dBm and a small signal gain of 36dB. The gate terminals of the power amplifier can be biased directly using a direct gate voltage or using an on chip gate bias circuit. The chip provides 40% power added efficiency and offers very high gain which eliminates the need for a driver amplifier in customers' circuits.

"The combination of high power, high gain and excellent power added efficiency performance, makes these two power amplifiers very attractive solutions for high power X-Band applications," said Paul Beasley, Product Manager. "Furthermore, the versatile biasing options and wide-band operation make the devices ideal for a wide range of X-band applications such as marine, weather and surface-movement radar, as well as perimeter security and

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communication links."

The table below outlines typical performance:

Parameters	Units	MAAP-015030	MAAP-015035
Frequency	GHz	8.5-11.75	8.5-11.5
Saturated Output Power	dBm	41	41
PAE	%	40	40
Small Signal Gain	dB	25	36
Bias Voltage	V	8.0	8.0

Samples of both the MAAP-015030 and MAAP-015035 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/20140428005116/en/>

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