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MACOM Expands Portfolio with 2-Watt and 4-Watt Ka-Band Power Amplifiers

MACOM's High Linearity Packaged Amplifiers Ideal for Satellite Communications

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. ("MACOM") (NASDAQ: MTSI), a leading supplier of high-performance analog RF, microwave and optical semiconductor products, today announced the MAAP-011246, a new 2-Watt power amplifier, and the MAAP-011139, a new 4-Watt power amplifier in a SMT package. These 4-stage, fully matched power amplifiers are ideally suited for Ka-Band SATCOM applications, and provide industry leading linearity for either final power amplification stages or driver stages in higher power applications.

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The [MAAP-011246](#) operates from 27.5 to 31.5 GHz, providing customers with 23 dB of linear gain, 2 W saturated output power and 24% added efficiency. The device is offered in a 5x5 mm 32-lead QFN package and offers an IM3 level of -25 dBc at 27 dBm Pout/tone, making the power amplifier an ideal solution for high-performance commercial SATCOM uplink terminal applications.

The [MAAP-011139](#) is offered in a 5x5 mm 32-lead QFN package and operates from 28.5 to 31.0 GHz while providing 22 dB linear gain and 23% added efficiency. The device delivers 4 W saturated output power and greater than 27 dBm Pout/tone while maintaining IM3 levels of 30 dBc, which is twice the linear performance of competing alternatives.

"The superior linearity performance of the MAAP-011246 and MAAP-011139 are further complemented by their high gain, power added efficiency and availability in SMT QFN packages," said Paul Beasley, Product Manager, MACOM. "The addition of these 2 watt and 4 watt packaged power amplifiers to MACOM's complete chip-set solution offers customers increased performance and flexibility in next generation Ka-Band VSAT systems."

MACOM enables the connections that ensure high data-density network performance from L-Band to Ka-Band. For over 60 years, MACOM has serviced the most demanding military and commercial applications on the ground, in the air or at sea. Our analog RF, microwave and millimeterwave innovations optimize wireless bandwidth for clear, uninterrupted signals across even remote locations.

To learn more about the MAAP-011246 and MAAP-011139 visit MACOM's booth #235 at [EuMW 2015](#), September 8 - 10, 2015 in Paris, France. Production quantities and samples of the MAAP-011246 and MAAP-011139 are available from stock. The MAAP-011139 is now available in both bare die and packaged versions. Final datasheets and additional product information can be obtained from the MACOM website at: www.macom.com.

The table below outlines typical performance:

Parameter	Units	MAAP-011246	MAAP-011139
Frequency	GHz	27.5-31.5 GHz	28.5-31.0 GHz
Gain	dB	23	22
IM3 Level	dBc	-25 @ 27 dBm	-27 @ 29 dBm
Saturated Output Power	dBm	33	36
Power Added Efficiency	%	24	23

ABOUT MACOM

M/A-COM Technology Solutions Holdings, Inc. (www.macom.com) is a leading supplier of high-performance analog RF, microwave, millimeterwave and photonic semiconductor 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, 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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