



Partners from RF to Light

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MACOM Introduces Industry Leading DC-50 GHz Wideband Amplifier

Featuring up to +23dBm of Saturated Power and 15 dB of Gain

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. ("MACOM"), a leading supplier of high-performance RF, microwave, millimeterwave and photonic products, today introduced the [MAAM-011109-DIE](#), a wideband amplifier boasting an operating frequency range of DC-50 GHz. The MAAM-011109-DIE provides customers with 50 Ohms matching and typical return losses better than 15 dB. This user friendly amplifier is a high-performance, low noise solution for customers seeking a very wideband, fully matched amplifier solution.

Features of the MAAM-011109-DIE include gate bias adjust to change current setting for power or temperature, gain trim control that allows 15 dB of gain control (0 to -1 V) and a temperature-compensated power detector that provides a DC voltage in relation to the output power.

"The wideband performance of the MAAM-011109-DIE makes it an optimal solution for broadband applications such as Test and Measurement and Electronic Countermeasures," said Paul Beasley, Product Manager, MACOM. "The DC-50 GHz operation, adjustable bias control for power and gain and low noise performance make the device a highly versatile solution for multiple wideband applications."

This die product features gold-plated contact pads on its backside and a size of 1.97 x 1.30 x 0.1 mm.

The table below outlines typical performance for the MAAM-011109-DIE:

Parameter	Units	MAAM-011109-DIE
RF Frequency	GHz	DC-50
Gain	dB	15.5
Isolation	dB	22
Input Return Loss	dB	15
Output Return Loss	dB	15
Noise Figure	dB	3.5
P1dB	dBm	20

Production quantities and samples of MAAM-011109-DIE 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 RF, microwave, and millimeterwave and photonic 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 and 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, 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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