



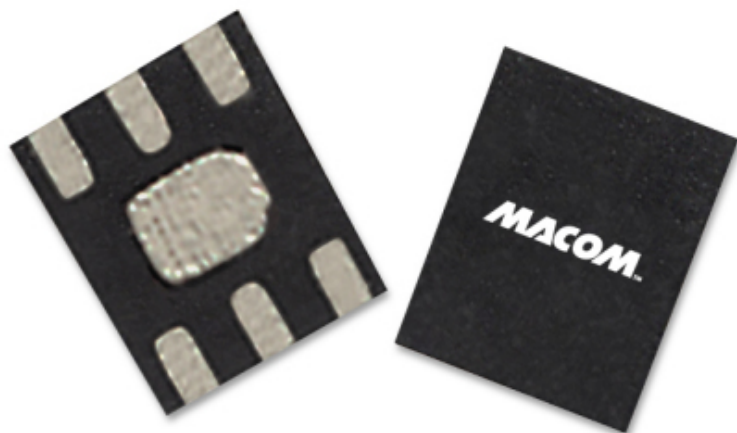
Partners in RF & Microwave

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MACOM Technology Solutions Introduces Low Cost Ultra-Small Sub-Harmonic Pumped Mixer at IEEE MTT International Microwave Symposium 2013

Packaged in a compact 1.5x1.2mm plastic TDFN, the broadband mixer requires no biasing and enables customers to design systems with high IF frequency

SEATTLE--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. (MACOM), a leading supplier of high performance analog semiconductor solutions, introduced today a new Broadband Sub-Harmonic Pumped Mixer for cost sensitive applications covering the 14-32 GHz frequency range and IF frequencies from DC-7 GHz.



The [MAMX-011009](#) is packaged in an ultra small 1.5x1.2 mm TDFN surface mount, allowing customers an easy, efficient and space-saving broadband solution. The mixer has a single RF port, requires no biasing and has excellent 2xLO and 3xLO isolation eliminating the need for extra filtering. The device requires +15dBm of LO power that can be easily attained by implementing the [MAAM-011101](#), which is a single bias low cost 4-20 GHz buffer amplifier offered by MACOM.

"The MAAM-011009 was designed engineer-to-engineer with low cost and ease of use in mind," said Amer Droubi, Product Manager. "In addition to the ultra small size and the inherent advantages of its sub-harmonic topology, this broadband mixer enables customers to design systems with high IF frequency requirements - up to 5.8 GHz in 802.11 based radios."

Packaged in a compact 1.5x1.2mm plastic TDFN, the broadband mixer requires no biasing and enables customers to design systems with high IF frequency (Photo: Business Wire)

that allows the LO to be injected at 1/2 the LO mixing frequency, which improves isolation and simplifies system requirements for the customer.

The MAMX-011009, can be used for up or down frequency conversion. The mixer integrates an 180° balanced diode topology

The table below outlines typical performance:

Parameters	Units	MAMX-011009
RF Frequency	GHz	14-32
IF Frequency	GHz	DC-7
Input IP3 Down Conversion	dBm	+12
Input IP3 Up Conversion	dBm	+14
Conversion Loss	dB	-10
Isolation LO-RF	dB	25
Down Conversion Isolation (2LO to IF)	dB	55
Down Conversion Isolation (3LO to IF)	dB	50
Up Conversion Isolation (2LO to RF)	dB	50
Up Conversion Isolation (3LO to RF)	dB	40

Samples of [MAMX-011009](#) 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 this mixer, as well as MACOM's extensive product portfolio, come visit us at Booth #930 at the IMS 2013 Show, June 2-7 in Seattle, Washington. For more information about the show visit: <http://www.ims2013.org/>

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/20130606005334/en/>

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