



Partners in RF & Microwave

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MACOM's 4-23 GHz Low Noise Active Mixer Leads the Industry with the Widest Frequency Bandwidth Coverage and Unmatched Application Versatility

High performance, ultra compact MAMX-011023 mixer is available for sampling today

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 at EuMW 2014 in Rome, Italy, its MAMX-011023 low noise active mixer is available for sampling immediately. The highly anticipated market arrival of the 4-23 GHz MAMX-011023 discrete mixer gives system designers unrivaled flexibility to target a wide range of applications with a single mixer component. Offering the widest frequency bandwidth coverage of any product in this category, the MAMX-011023 mixer provides a versatile and cost-effective platform for a wide range of applications spanning test and measurement, electronic warfare, point to point wireless, video satellite and more.



Housed in a lead-free, ultra compact 1.5 x 1.2 mm TDFN surface mount plastic package, the MAMX-011023 mixer maximizes space savings and manufacturing efficiencies. It's designed for down frequency conversion and supports very low noise of 7 dB typical. This mixer covers the 4-23 GHz RF frequency range, has an ultra wide band IF of 8 GHz, and supports conversion gain of 9 dB typical at 12 GHz and low power consumption at 3v/15mA. This mixer can be biased from a single positive supply.

The MAMX-011023 mixer is fabricated using a GaAs process which features full passivation for increased performance and reliability, and can be used for either lower sideband (LSB) or upper sideband (USB) mixing. It integrates a FET gain element with LO and RF driving the same pin. The transconductance mixing allows a very low noise figure for an active mixer, enabling a high performing solution for real-estate constrained customers.

This wideband device equips system designers to target a diverse range of products and applications with one easy-to-use device, enabling significant cost, design and component procurement efficiencies. (Photo: Business Wire)

"The MAMX-011023 mixer delivers excellent performance over the widest frequency bandwidth supported today in this product category," said Tom Galluccio, Product Manager, MACOM. "This wide bandwidth equips system designers to target a diverse range of products and applications with one easy-to-use device, enabling significant cost, design and component procurement efficiencies."

The table below outlines specifications and typical performance:

Parameter	Units	MAMX-011023
RF Bandwidth	GHz	4-25
LO Bandwidth	GHz	4-23
IF Bandwidth	GHz	DC-8
Conversion Gain (dB)	dB	+9
NF (dB)	dB	7
Input IP3 (dBm)	dBm	+5

MACOM's MAMX-011023 mixer is now available for sampling. For datasheet, additional product information, and to order samples today, please visit <http://www.macom.com/support/contact-us/product-inquiry-form>.

Please visit MACOM at booth 131 at EuMW 2014 in Rome, Italy to get expert support on the MAMX-011023 and other products.

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/20141008005191/en/>

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