



Partners in RF & Microwave

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MACOM's New Mixers Provide the Industry's Widest Frequency Bandwidth Coverage in Ultra Compact, Standard Plastic Packaging

New high IP3 mixer, image reject mixer, and low noise active mixer provide optimal balance of performance, space savings, and cost effectiveness

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 three new additions to its portfolio of discrete mixers. These ultra small mixers provide industry leading frequency bandwidth in standard surface mount, plastic packages, enabling system developers to achieve new levels of design versatility and cost efficiency for applications spanning test and measurement, electronic warfare, point to point wireless and more.

The new **MAMX-011021** high IP3 mixer supports high linearity for applications including high bit rate transmitters and receivers. This mixer covers the 5-33 GHz RF frequency range and DC-5 GHz IF frequency range, integrating a single ended cold FET structure and diplexer for approximately 9 dB of conversion loss with +22 dBm IIP3 to ensure low distortion.

The new **MAMX-011022** image reject mixer is targeted at medium data rate, long haul, low noise systems, and is optimized for upconversion and downconversion. This mixer provides image rejection of 18 dB and covers the 5-28 GHz RF frequency range and DC-5 GHz IF frequency range, with conversion loss of 12 dB typical.

The **MAMX-011023** low noise active mixer is designed for down frequency conversion and supports very low noise of 7 dB typical. This mixer covers the 4-23 GHz RF frequency range and DC-8 GHz IF frequency range, and supports conversion gain of 7 dB typical and low power consumption at 3v/15mA.

All three of MACOM's new mixers are available in surface mount, industry standard plastic TDFN packaging, and are sized at a mere 1.5mm x 1.2mm.

"These new additions to MACOM's growing portfolio of mixers are ideally suited for wideband applications for which performance, ease of use and cost effectiveness are key considerations," said Tom Galluccio, Product Manager, MACOM. "The frequency bandwidth coverage, small size and design flexibility enabled by these new mixers is unmatched by competing plastic packaged products."

MACOM's new mixers are sampling to customers today. For datasheets and additional product information, visit MACOM's website www.macom.com. Attendees of IMS 2014 (Tampa Bay, Florida, June 1 - 6) are invited to visit MACOM at booth 915 to learn more about the company's new mixers and broad portfolio of complementary 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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