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MACOM Announces Industry's Leading Up-Converter for 28 - 34 GHz Point-to-Point Radio Applications

Up Converter boasts industry's best LO Suppression and high linearity in a 4mm PQFN package

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Holdings Inc. ("MACOM"), a leading supplier of high performance RF, microwave, and millimeter wave products today, announced a new up- converter that is ideally suited for 28 and 34 GHz point-to-point radio applications.

The [MAUC-011003](#) is an integrated up-converter assembled in a lead-free 4 mm 24-lead PQFN plastic package. This device has a typical conversion gain of 12 dB, and an image rejection of 15 dBc and is integrated with a LO doubler, LO buffer amplifier, and RF buffer amplifier. Operating over the 28-34 GHz frequency bandwidth, the device boasts the industry's leading LO suppression that eliminates the customers' need for a Tx Filter.

"The MAUC-011003 is ideal for customers looking for a high performance up-converter for use in current and next generation point-to-point microwave radios," said Michael O'Driscoll, Product Manager. "The exceptional LO leakage performance and high linearity enables the implementation of high order modulation schemes using direct up-conversion or using an IF with minimal LO filtering, hence reducing the complexity and cost of the overall system for our customers."

The [MAUC-011003](#) delivers turn down trajectories optimized to maintain linearity and 2xLO leakage over the gain control range and is ideally suited for 28-34 GHz bandwidth for point-to-point radios under both LSB and USB operation and Ka-Band VSAT applications.

The table below outlines typical performance:

Parameter	Units	MAUC-011003
Frequency Range (RF)	GHz	27.5 - 33.4
Frequency Range (LO)	GHz	12 - 18.45
Conversion Gain	dB	12
Image Rejection	dBc	15
Input IP3	dBm	20
Output IP3	dBm	32
Packaging	mm	4

Production quantities and samples of MAUC-011003 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 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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