



M/A-COM Technology Solutions Announces 1-Bit Digital Attenuator for CATV Applications

New GaAs Integrated Digital Attenuator Features Low Insertion Loss and 75 Ω Impedance

Lowell, MA, August 24, 2011 - M/A-COM Technology Solutions Inc. (M/A-COM Tech), a leading supplier of high performance analog semiconductor solutions, introduced today a 1-Bit digital attenuator for CATV and set-top box (STB) front end applications. The MAAD-010305 is a 15 dB step GaAs MMIC digital attenuator. It is designed to condition cable input signals to the STB. The device is ideally suited for use where high accuracy, very low power consumption, and low intermodulation products are required.



“We are very pleased to continue the expansion of our 75 Ω product portfolio with the introduction of this highly linear, 15 dB digital attenuator,” said Graham Board, Product Manager. “This device is ideally suited for use in high volume, cost sensitive customer premises equipment.”

The table below outlines typical part number performance:

Parameters	Units	MAAD-010305
Insertion Loss	dB	0.3
Attenuation	dB	15
Input Return Loss	dB	14
Output Return Loss	dB	14
Input IP3	dBm	46
P1dB	dBm	20
CTB (157 Channels, $P_{IN} = 35$ dBmV/Ch)	dBc	70
CSO(157 Channels, $P_{IN} = 35$ dBmV/Ch)	dBc	66
Transients	mV	20
Package		SOT-25

The MAAD-010305 is fabricated as a monolithic GaAs integrated circuit using a mature pHEMT process. The process features full chip passivation for performance and reliability. The attenuator is designed for operation from DC to 1.1 GHz. It is packaged in a RoHS compliant lead free SOT-25, five-lead surface mount plastic package. The MAAD-010305 is characterized by low insertion loss and allows for positive and negative voltage control, complimented by 75 Ω impedance.

Production quantities and samples of MAAD-010305 are available from stock. Final datasheets and additional product information can be obtained from the M/A-COM Tech website at www.macomtech.com

ABOUT M/A-COM TECHNOLOGY SOLUTIONS INC.

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, M/A-COM Tech serves diverse markets including CATV, wireless infrastructure, optical communications, aerospace and defense, automotive, industrial, medical, and mobile devices. M/A-COM Tech builds on more than 60 years of experience designing and manufacturing innovative product solutions for customers worldwide.

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.

FOR SALES INFORMATION, PLEASE CONTACT:

North Americas -- Phone: 800.366.2266

Europe -- Phone: +353.21.244.6400

India -- Phone: +91.80.43537383

China -- Phone: +86.21.2407.1588

MEDIA CONTACT:

Patricia A. Isabelle

978.656.2546

Patricia.Isabelle@macomtech.com