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MACOM Extends Wired Broadband Leadership with the Addition of Two Families of CATV Amplifiers

- Single Ended and Differential 75 Ω Amplifiers covering 5-1218 MHz
- Addressing Upstream and Downstream DOCSIS 3.1 CATV Infrastructure Applications
- Offered in Industry Standard Single Ended SOT-89 Package and Differential SOIC-8EP Package

LOWELL, Mass.--(BUSINESS WIRE)-- [MACOM Technology Solutions Inc.](#) ("MACOM"), today introduced seven new high-performance CATV amplifiers designed for 5V operation covering both upstream 5-300 MHz and downstream 45-1218 MHz. These amplifiers are offered in a single ended SOT-89 package and differential SOIC-8EP package. Additionally each product family is layout compatible allowing design engineers performance flexibility on the same system board.

These devices, designed specifically for DOCSIS 3.1 Distributed and Legacy HFC (hybrid fiber coax) Networks, are scheduled for launch during this year's EDI CON 2017 show in Shanghai. The DOCSIS3.1 standard is addressing the market demand for higher broadband performance from MSOs (Multiple Service Operators). As a leading supplier of active and passive products to broadband OEMs (Original Equipment Manufacturers), MACOM's latest active families offer design engineers the ability to select needed performance while optimizing power consumption.

"MACOM's latest Wired Broadband single ended and differential amplifier families offer optimal balance between linearity, noise figure and power efficiency, which are required in today's infrastructure networks," said Graham Board, Senior Director, Multi-Market Products, at MACOM. "We are excited to add these new leading edge amplifiers to our extensive portfolio of active and passive CATV products."

Single Ended 5V SOT-89 Family

The [MAAL-011139](#) is a 21.5 dB Gain, low noise figure, high linearity amplifier operating from 5-1218 MHz. This versatile amplifier is assembled in a 3lead SOT-89 plastic package and can be biased from 3 to 5 volts with adjustable current achieving a noise figure of 1.2dB and OIP3 of 34 dBm.

The [MAAM-011162](#) is a single-ended high linearity, low noise figure amplifier covering both up and downstream bands of 5-1218MHz. This device is assembled in a 3lead SOT-89 plastic package and provides 18 dB of flat gain in both up and downstream applications.

The [MAAM-011251](#) is a single-ended high linearity, low noise figure amplifier covering both up and downstream bands of 5-1218MHz. This device is assembled in a 3lead SOT-89 plastic package and provides 15 dB of flat gain in both up and downstream applications.

The [MAAM-011258](#) is a single-ended high linearity, low noise figure amplifier covering both up and downstream bands of 5-1218MHz. This device is assembled in a 3lead SOT-89 plastic package and provides 12 dB of flat gain in both up and downstream applications.

Part	Frequency	Gain	Noise Figure	IRL/ORL	OIP2	OIP3	P1dB	Voltage	Current
Units	MHz	dB	dB	dB	dBm	dBm	dBm	V	mA
MAAL-011139	5-1218	21.5	1.2	23/23	42	34	19	5	85
MAAM-011162	5-1218	18	2.0	20/20	48	36	19	5	110
MAAM-011251	5-1218	15	2.3	18/20	48	37	18	5	100
MAAM-011258	5-1218	12	2.5	18/20	48	37	18	5	100

Differential 5V Family SOIC-8EP Family

The [MAAM-011163](#) is a 19dB Gain differential amplifier covering both upstream and downstream band 5-1218 MHz.

Assembled in a SOIC-8EP plastic package, this device offers noise figure of 2.4 dB and OIP3 of 42 dBm.

The [MAAM-011240](#) is a 17dB Gain differential amplifier covering both upstream and downstream bands 5-1218 MHz. Assembled in a SOIC8EP plastic package, this device offers noise figure of 2.6 dB and OPI3 of 44 dBm.

The [MAAM-011250](#) is a 15dB Gain differential amplifier covering both upstream and downstream bands 5-1218 MHz. Assembled in a SOIC8EP plastic package, this device offers noise figure of 2.8 dB and OPI3 of 44 dBm.

Part	Frequency	Gain	Noise Figure	IRL/ORL	OIP2	OIP3	P1dB	Voltage	Current
Units	MHz	dB	dB	dB	dBm	dBm	dBm	V	mA
MAAM-011163	5-1218	19	2.4	20/20	62	42	25	5	290
MAAM-011240	5-1218	17	2.6	20/20	63	44	25	5	290
MAAM-011250	5-1218	15	2.8	20/20	63	44	25	5	290

Final datasheets and additional product information can be obtained from the MACOM website at: www.macom.com.

ABOUT MACOM

MACOM is a new breed of analog semiconductor company — one that delivers a unique combination of high growth, diversification and high profitability. We are enabling a better-connected and safer world by delivering breakthrough semiconductor technologies for optical, wireless and satellite networks that satisfy society's insatiable demand for information.

Today, MACOM powers the infrastructure that millions of lives and livelihoods depend on every minute to communicate, transact business, travel, stay informed and be entertained. Our technology increases the speed and coverage of the mobile Internet and enables fiber optic networks to carry previously unimaginable volumes of traffic to businesses, homes and data centers.

Keeping us all safe, MACOM technology enables next-generation radars for air traffic control and weather forecasting, as well as mission success on the modern networked battlefield.

MACOM is the partner of choice to the world's leading communications infrastructure and aerospace and defense companies, helping solve their most complex challenges in areas including network capacity, signal coverage, energy efficiency, and field reliability, through its best-in-class team and broad portfolio of RF, microwave, millimeterwave and lightwave semiconductor products.

MACOM is a pillar of the semiconductor industry, thriving for more than 60 years of daring to change the world for the better through bold technological strokes that deliver true competitive advantage to customers and superior value to investors.

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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