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MACOM Introduces 2 Watt High Power Amplifier with Integrated Power Detector

MACOM's 17.65-19.75 GHz Device is Designed for Cellular Backhaul Applications and Extends its 18GHz Portfolio of High-Power Amplifiers

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. ("MACOM"), a leading supplier of high-performance analog RF, microwave, millimeterwave and photonic semiconductor solutions, today announced the new [MAAP-011145](#), a power amplifier designed specifically for 18 GHz wireless backhaul applications.

The MAAP-011145 is a power amplifier covering the 17.6-19.75 GHz frequency band in a 7 mm, lead-free, cavity package. This device features a temperature compensated integrated power detector, and includes ESD protection and by-pass capacitors to ease the implementation and volume assembly of the packaged part.

The MAAP-011145 boasts over 2 watts output power at 1 dB compression point, 25 dB small signal gain, a Third Intercept Point (OIP3) of 43 dBm and a noise figure of 7 dB and 34.5 dBm of saturated output power. The MAAP-011145 provides customers with a robust, high performance solution for demanding cellular backhaul applications.

"The outstanding technical performance of our new MAAP-011145 power amplifier, coupled with our broad portfolio of switches, LNAs and diodes, provides point-point radio designers with an elegant solution for next generation 18GHz point-point radio designs," said Stuart Cornelius, Product Manager, MACOM. "This addition to MACOM's Wireless Backhaul power amplifier portfolio further positions MACOM as the power amplifier vendor of choice for Wireless Backhaul applications."

Production quantities and samples of the MAAP-011145 are available from stock. Final datasheets and additional product information can be obtained from the MACOM website at: www.macom.com.

The table below outlines typical performance:

Parameter	Units	MAAP-011145
Frequency	GHz	17.65-19.75
Small Signal Gain	dB	25
OIP3	dBm	43
Saturated Output Power	dBm	34.5
Noise Figure	dB	7
P1dB	dBm	34

ABOUT MACOM

M/A-COM Technology Solutions Holdings, Inc. (www.macom.com) is a leading supplier of high-performance analog RF, microwave, millimeterwave and photonic semiconductor 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, 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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