

MACOM Introduces Industry's Highest Power, Full E-Band MMIC Power Amplifier

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Delivers typical saturated output power (Psat) of 25.5 dBm across the 71 to 86 GHz frequency range for high bandwidth, long distance point to point wireless backhaul

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. ("MACOM"), a leading supplier of high performance RF, microwave, and millimeter wave products, today introduced the industry's highest power, full E-Band power amplifier, delivering typical Psat of 25.5 dBm for the 71-76 GHz and 81-86 GHz frequency ranges in a single product. Optimized to enable fiber-caliber data rates over long distances across 10 GHz of available E-Band spectrum, MACOM's new E-Band power amplifiers equip designers of point to point transceivers to maximize design flexibility by eliminating the requirement for two different amplifiers to be used to cover the full 71-86 GHz E-Band frequency band.

MACOM's new [MAAP-011106](#) E-Band power amplifier is ideally suited for small cell wireless backhaul infrastructure, enabling data rates of 1 Gbps and higher to accommodate surging data demand, particularly in densely populated metro environments. Providing the industry's highest output power for high-frequency E-Band operation, MACOM's new amplifier offers a broad bandwidth and can reduce transceiver design and manufacturing costs via the consolidation of PAs within compact, multi-band systems.

MACOM's E-Band power amplifier includes an integrated power detector and supports 20 dB of small signal gain with variable gain control for flexible performance tuning. Each device is RF tested to ensure performance compliance, and is fabricated using an efficient pHEMT process.

"MACOM's MMIC design expertise and decades-long innovation in point to point wireless backhaul technology has distinguished us as a leading supplier of power amplifiers across every frequency band," said David Richardson, Product Line Director, Wireless, MACOM. "With the introduction of our E-Band power amplifier, we're making it easier for transceiver designers to achieve high linear power and gain control over the full E-Band spectrum, while including the convenience and performance of an integrated output power detector."

The table below outlines typical performance:

| Parameter | Units | MAAP-011106 |
|------------------------|-------|-------------|
| Frequency | GHz | 71-86 |
| Gain | dB | 20 |
| OIP3 | dBm | 30 |
| Saturated Power Output | dBm | 25 |
| Output and Input Match | dB | 15 |

MACOM's new MAAP-011106 E-Band power amplifiers are available for immediate delivery to qualified customers. For datasheets and additional product information, visit 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, 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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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

M/A-COM Technology Solutions Inc.
Husrav Billimoria, 978-656-2896
Husrav.Billimoria@macomtech.com

or

Rainier Communications
Jessie Glockner, 508-475-0025 x140
jglockner@rainierco.com

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