

MACOM Expands GaN Portfolio with New Wideband Power Amplifier at IMS 2015

May 19, 2015

MACOM's NPA1006 is designed for Narrowband to Broadband Applications

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. ("MACOM"), a leading supplier of high-performance analog RF, microwave and optical semiconductor products, today announced the new [NPA1006](#), a Gallium Nitride (GaN) wideband power amplifier optimized for 20-1000 MHz operation. This GaN on Silicon (Si) HEMT D-Mode Amplifier is suited for narrowband to broadband applications spanning test and measurement, defense communications, land mobile radio and wireless infrastructure.

This Smart News Release features multimedia. View the full release here: <http://www.businesswire.com/news/home/20150519005204/en/>

For more information on MACOM's expanding GaN portfolio and [recently announced Gen4 GaN technology](#), please visit booth 2839 at the IMS 2015 tradeshow in Phoenix, Arizona, May 19th - May 21st.

The NPA1006 is designed for saturated and linear operation, featuring output levels up to 12.5W (41 dBm). The NPA1006 boasts 50 ohms input matched and output unmatched, 28 V operation and 14 dB gain. The device also provides customers with 65% drain efficiency at 900 MHz.

MACOM continues to shatter the barriers to mainstream GaN adoption by delivering superior technical performance products below LDMOS cost structures. MACOM offers the industry's broadest portfolio, frequency range, power levels and packaging, crafting the industry's only true dual-sourcing capability.

"The NPA1006 is a great addition to MACOM's expanding GaN portfolio," said Gary Lopes, Senior Product Director, MACOM. "With our Gen 1 and Gen 2 products fully qualified and millions of units in the field, we are excited to continue leveraging our global design resources and deep GaN application experience to offer the industry the best performance, gain, efficiency and low cost products with our new Gen 4 technology."

Production quantities and samples of the [NPA1006](#) 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	NPA1006
Frequency	MHz	20-1000
Gain	dB	14
Saturated Output Power	P _{SAT}	24
Power Added Efficiency	%	62
Drain Efficiency	%	65
Drain Voltage	V	28

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 and 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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