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MACOM Furthers GaN Portfolio Leadership with New Wideband Power Transistor at IMS 2015

MACOM's NPT2022 Supports CW, Pulsed and Linear Operation Up to 100 W

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 [NPT2022](#), a wideband transistor optimized for DC-2 GHz operation and built using a proprietary Gallium Nitride (GaN) on Silicon (Si) process.

This Smart News Release features multimedia. View the full release here:

<http://www.businesswire.com/news/home/20150520005020/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 NPT2022 supports CW, pulsed and linear operation, boasting output levels up to 100 W or 50 dBm. This device provides customers 20 dB of gain and 60% drain efficiency at 900 MHz when operated at 50 volts. This HEMT D-Mode transistor is available in an industry standard plastic package with bolt down flange. The NPT2022 is ideally suited for defense communications, land mobile radio, avionics, wireless infrastructure, ISM applications and VHF/UHF/L/S-band radar.

"The NPT2022 features advanced RF performance in a plastic package powered by MACOM's unique GaN on silicon technology," said Gary Lopes, Senior Product Director, MACOM. "The technical performance of MACOM's NPT2022 complements our expanding GaN portfolio, which offers the industry the best performance, gain, efficiency and low cost products available on the market."

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.

Production quantities and samples of the [NPT2022](#) 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	NPT2022
Frequency	GHz	DC-2
Small Signal Gain	dB	21
Saturated Output Power	dBm	50.5
Power Gain	dB	20
Drain Efficiency	%	60

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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For more information about MACOM, please visit www.macom.com; follow [@MACOMtweets](https://twitter.com/MACOMtweets) on Twitter; join MACOM on [LinkedIn](#), or visit the MACOM [YouTube Channel](#).

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www.macomtech.com/content/customersupport.

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