



Partners from RF to Light

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## MACOM Announces Wideband Low Noise Amplifier with Superior Noise Figure Performance Enabling Test and Measurement Applications

- | *Amplifier delivers industry leading Wideband Performance from DC to 28 GHz*
- | *Flat Gain Response with Excellent Input and Output Return Loss*
- | *Positive Only Variable Bias Supply Offering Customers Versatility for Different Applications*

LOWELL, Mass.--(BUSINESS WIRE)-- [MACOM Technology Solutions Inc.](#) ("MACOM"), today introduced the MAAL-011141-DIE. Next generation test and measurement systems require higher performance wideband components offering ease of use and smaller footprints to allow for smaller modular solutions that accelerate time to market. MACOM's wideband low noise amplifier, operating from DC to 28 GHz, is an ideal solution to meet these test and measurement requirements.

- | Request MAAL-011141-DIE Datasheet: [Click Here](#)
- | See MACOM's MMIC Portfolio: [Click Here](#)

For over 60 years, MACOM's design and applications experts have spearheaded innovation in the RF, microwave and millimeterwave domain. Proven engineering and application support teams are continuing in this legacy with the next generation of wideband MMIC solutions designed for the most demanding customer applications.

The [MAAL-011141-DIE](#) offers low noise figure across the full frequency range enabling signal integrity for wideband applications such as test and measurement and mission critical aerospace and defense. Requiring positive voltage only, the MAAL-011141-DIE eliminates the need for a negative voltage supply, allowing for fewer components and supply rails thus simplifying the design burden for customers. In addition, this low noise amplifier has a variable bias voltage, offering customers greater versatility to tradeoff between linearity and power consumption. The input and the output of the MAAL-011141 are fully matched to 50  $\Omega$  with a typical return loss > 15 dB. Through innovative design techniques, this amplifier achieves a lower noise figure compared to alternative options, particularly at lower frequency ranges.

"The combination of flat gain, low noise figure performance and fully matched operation makes this device ideal for demanding test and measurement applications. The positive bias supply and variable bias voltage make the device highly versatile for many other applications," said Paul Beasley, Product Manager, at MACOM. "The MAAL-011141-DIE will also be released in a 5 mm QFN package and is part of a new family of next generation MACOM wideband amplifiers."

Final datasheets and additional product information can be obtained from the MACOM website at: [www.macom.com](http://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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For more information about MACOM, please visit [www.macom.com](http://www.macom.com) follow @MACOMtweets on Twitter, join MACOM on LinkedIn, or visit the MACOM YouTube Channel.

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<http://www.macom.com/purchases>.

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