



Partners from RF to Light

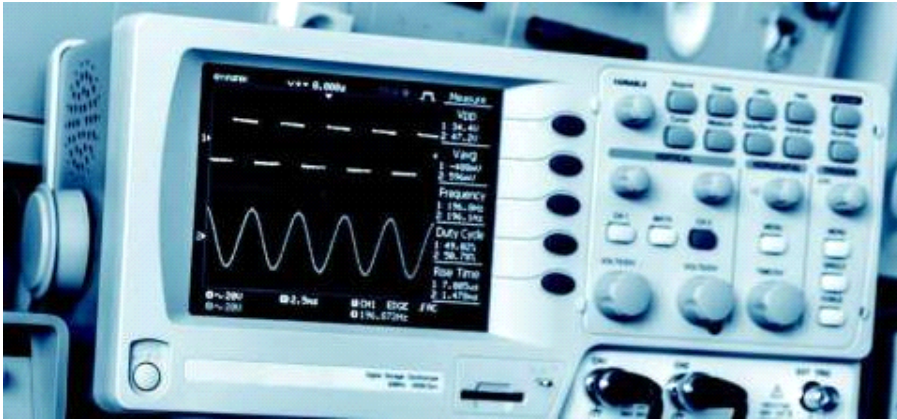
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Low Noise Amplifier Family from MACOM Provides Industry-Leading Performance and Versatility Enabling Accelerated Time-to-Market for Customers

The MAAL-011129 and MAAL-011130 cover a broad frequency range of 2.0 to 31.5 GHz, boasting market-leading high gain and low noise figure in plastic packages for multi-market applications

LOWELL, Mass.--(BUSINESS WIRE)-- MACOM Technology Solutions Inc. ("MACOM"), a leading supplier of high-performance analog RF, microwave, millimeterwave and optical semiconductor products, today introduced the [MAAL-011129](#) and the [MAAL-011130](#). These devices enable customers to achieve the competitive advantage they count on in test and measurement, SATCOM, aerospace and defense and ISM applications, while also receiving the proven engineering and technical support they have come to expect from MACOM.

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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 a next generation of wideband MMIC solutions designed for the most demanding customer applications.

The [MAAL-011129](#) is a versatile low noise amplifier solution well suited to diverse receiver applications such as VSAT, Point-to-Point and 24 GHz ISM. This device is fully matched across the band and provides customers with superior noise figure, small package size and flexibility in biasing options against competing low noise

Low Noise Amplifier Family from MACOM Provides Industry-Leading Performance and Versatility Enabling Accelerated Time-to-Market for Customers (Photo: Business Wire)

amplifier alternatives. The MAAL-011129 operates from 18 to 31.5 GHz and has a typical noise figure of 2.5 dB and gain of 23 dB at 24 GHz. The bias current can be set with a simple external resistor so the user can customize the power consumption and linearity performance. The device is housed in a lead-free 2x2 mm 8-lead PDFN plastic package, offering customers a simpler and faster automated assembly with minimal usage of valuable real estate.

The [MAAL-011130](#) was designed for customers who require a fully matched solution covering 2-18 GHz with low noise figure of 1.4 dB, high gain of 20 dB and flexible biasing options. The device is biased with a single +3.0 to +5.0 V bias and the current can be adjusted with a separate DC bias pin or set with an external resistor. It typically consumes only 30 mA and allows full power-down with the Vb pin. Housed in a 2x2 mm 8-lead PDFN plastic package, the MAAL-011130 offers the industry's best combination of performance, ease-of use, package size and biasing flexibility with broadband performance for customers across a breadth of multi-market applications.

"Our customers have come to depend on our industry leading, high-performance MMIC solutions coupled with world class technical and applications support," said Graham Board, Senior Director, Multi-Market, MACOM. "We continue to deliver best-in-class MMIC solutions that address our customers' key pain points while simultaneously delivering true differentiated value. With the addition of this new family of LNAs we once again assert our position and commitment to continually pushing the technical envelope and expanding our best-in-class portfolio."

Parameters	Units	MAAL-011129	MAAL-011130
Frequency	GHz	18.0-31.5	2.0-18.0

Gain	dB	23	20
Noise Figure	dB	2.5	1.4
Output IP3	dBm	25	21
Isolation	dB	45	35
Input Return Loss	dB	13	10
Output Return Loss	dB	13	15
Bias Voltage	V	+3.3 to +5.0	+3.3 to +5.0
Bias Current	mA	5-80	5-80
Packaging	dB	Lead-Free 2mm 8-Lead PDFN	Lead-Free 2mm 8-Lead PDFN

Samples of the **MAAL-011129** and **MAAL-011130** are now available. Additional product information can be obtained from the MACOM website at: www.macom.com.

ABOUT MACOM:

MACOM enables 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 datacenters.

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, 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 analog RF, microwave, millimeterwave and photonic 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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