



Partners from RF to Light

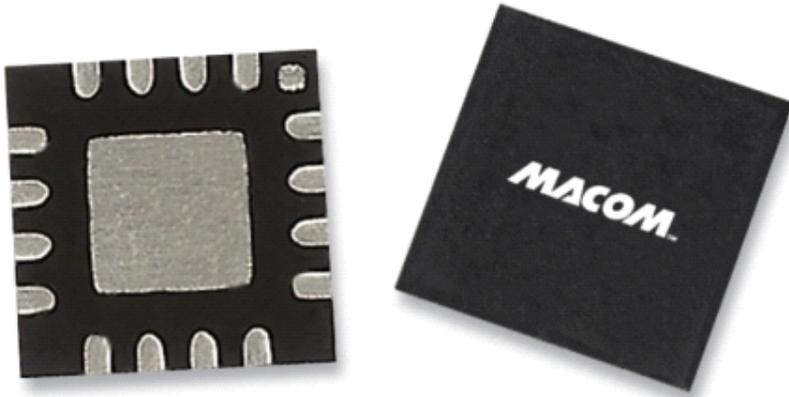
June 12, 2018

MACOM's New Power Detector Features Best-in-Class Wide-Input Bandwidth and Dynamic Range

- | New MADT-011000 operates from 5 - 44 GHz, supporting high dynamic range of 30 dB
- | MACOM's high-performance power detector is available to customers today as packaged or DIE versions
- | New detector will be showcased at IMS 2018 in booth #1125

LOWELL, Mass.--(BUSINESS WIRE)-- [MACOM Technology Solutions Inc.](http://www.macom.com) ("MACOM"), a leading supplier of high-performance RF, microwave, millimeterwave and photonic solutions, today announced the immediate availability of its new [MADT-011000](#) power detector for use in applications spanning microwave radios, test and measurement (T&M) equipment and radar systems. Operating from 5 - 44 GHz and supporting high dynamic range of 30 dB (-15 to +15 dBm), MACOM's MADT-011000 power detector features industry-leading wide-input bandwidth and device performance to enable optimal power control.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20180612005780/en/>



The single-ended, internally-matched MADT-011000 consumes 70 μ A from a 4.5 V supply, while the matched detector and reference diodes provide temperature compensation in differential operation. The MADT-011000 is offered in both a 3 mm 16-lead QFN package and in bare die format, with ESD protection for reliability and ease of handling.

"The MADT-011000 is an extremely versatile power detector offered in both 3mm QFN and bare-die formats," said Graham Board, Senior Director of Product Marketing, MACOM. "The wide bandwidth and dynamic range, very low power dissipation and external directional coupler makes this an ideal solution for both narrow and wide bandwidth power control circuits. It is anticipated that this one power detector will cover all of the high-volume wireless backhaul bands from 5 to 44GHz, significantly simplifying component selection and circuit design for the radio designer."

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For over 60 years, MACOM's design and applications experts have spearheaded innovation in the RF, microwave and millimeterwave domain, developing the industry's broadest portfolio of MMICs and components spanning the entire RF signal chain. Leveraging advanced, proprietary technologies, MACOM's heterogeneous semiconductor and packaging strategy is aimed at ensuring that each individual RF system function is fully optimized to deliver maximum performance at the appropriate cost. MACOM remains firmly committed to delivering true competitive advantage to our customers, providing superior technology, expertise, cost structures and supply chains - with no compromises.

The table below outlines typical performance:

Parameter	MADT-011000	MADT-011000-DIE
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Freq (GHz)	5 - 44	5 - 44
Input Power (dBm)	-15 to +15	-15 to +15
Dynamic Range (dB)	30	30
Vdelta (mV)	5 to 2200	5 to 2200
Return Loss (dB)	-15	-11
Supply Voltage / Current (v/ μ A)	4.5/70	4.5/70
Package	3mm 16-Lead PQFN	1.00x0.75x0.1 mm

MACOM's MADT-011000 power detectors are available to customers today. For assistance identifying MACOM products optimized to substitute or replace offerings from other vendors, visit [MACOM's Cross Reference tool](#).

MACOM will showcase its industry leading RF technology portfolio at IEEE's International Microwave Symposium (IMS) 2018, Booth #1125 in Philadelphia, Pennsylvania, June 12th - 14th. MACOM's booth will feature new product solutions optimized for 5G connectivity, basestations, SATCOM, Test and Measurement, ISM and Radio communications. To make an appointment, contact your local sales representative. For more information about MACOM's RF technology solutions visit 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 follow [@MACOMtweets](#) on Twitter, join MACOM on [LinkedIn](#), or visit the MACOM [YouTube Channel](#).

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS:

This press release contains forward-looking statements based on MACOM's beliefs and assumptions and on information currently available to MACOM. These forward-looking statements reflect MACOM's current views about future events and are subject to risks, uncertainties, assumptions and changes in circumstances that may cause those events or our actual activities or results to differ materially from those expressed in any forward-looking statement. Although MACOM believes that the expectations reflected in the forward-looking statements are reasonable, it cannot and does not guarantee future events, results, actions, levels of activity, performance or achievements. Readers are cautioned not to place undue reliance on these forward-looking statements. A number of important factors could cause actual results to differ materially from those indicated by the forward-looking statements, including, but not limited to, those factors described in "Risk Factors" in MACOM's Annual Report on Form 10-K and Quarterly Report on Form 10-Q filings with the Securities and Exchange Commission. MACOM undertakes no obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future events or otherwise.

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

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