

## MACOM's New Power Detector Family Features Integrated Directional Couplers and Built-In Temperature Compensation

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- New MACP Series power detectors provide unrivaled ease-of-use in a small footprint
- MACOM's new power detector family covers 2 – 6, 6 – 18 and 10 – 30 GHz frequency ranges
- New solutions will be showcased at EuMW 2018 in booth #271

LOWELL, Mass.--(BUSINESS WIRE)--Sep. 24, 2018-- [MACOM Technology Solutions Inc.](https://www.businesswire.com/news/home/20180924005066/en/) ("MACOM"), a leading supplier of semiconductor solutions, today announced its new MACP Series of high-performance power detectors with integrated, low loss directional couplers, optimized for power monitoring and leveling in point-to-point radios, ISM, radar, VSAT, EW and aerospace and defense applications. The integrated solution of the directional coupler and temperature compensated detector circuit enables customers to dramatically simplify their system designs and lower BOM costs while preserving valuable board space.

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The new MACP Series power detectors operate in frequency ranges from 2 – 6 GHz ([MACP-010571](#)), 6 – 18 GHz ([MACP-010572](#)) and 10 – 30 GHz ([MACP-010573](#)), and provide low insertion loss and high directivity enabling power monitoring along a transmission line. The devices are housed in lead-free, 1.5 x 1.2 mm surface mount plastic packaging compatible with standard pick and place assembly equipment.

"For system designers seeking plug-and-play ease of use and design flexibility, MACOM's MACP Series power detectors provide an elegant, integrated power monitoring solution," said Graham Board, Senior Director of Product Marketing, MACOM. "This family of footprint compatible detectors covers 2 to 30 GHz. Through the integration of the directional coupler and temperature compensation circuit, we have developed easy to use, robust and cost-effective power detector solutions that are suitable for multiple power sensing missions."

The integrated solution of the directional coupler and temperature compensated detector circuit enables customers to dramatically simplify their system designs and lower BOM costs while preserving valuable board space. (Graphic: Business Wire)

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 ensures 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 – without compromises.

The table below outlines typical component performance:

Parameter	Units	MACP-010571	MACP-010572	MACP-010573
Frequency	GHz	2 - 6	6 - 18	10 - 30
Insertion Loss	dB	0.17 @ 4 GHz	0.27 @ 12 GHz	0.4 @ 20 GHz
Input Return Loss	dB	30 @ 4 GHz	30 @ 12 GHz	15 @ 20 GHz
Output Return Loss	dB	30 @ 4 GHz	30 @ 12 GHz	18 @ 20 GHz
Minimum Detectable Power	dBm	-15 @ 4 GHz	-16 @ 12 GHz	-18 @ 20 GHz
Directivity	dB	14.5 @ 4 GHz	16 @ 12 GHz	13 @ 20 GHz
Bias		3.2 V, 0.3 mA	3.2 V, 0.3 mA	3.2 V, 0.3 mA

MACOM will showcase its industry leading RF technology portfolio at European Microwave Week (EuMW) 2018, Booth #271 in Madrid, Spain, September 25<sup>th</sup> – 27<sup>th</sup>. MACOM's booth will feature new product solutions optimized for 5G, wireless basestations, radar, test and measurement and industrial, scientific and medical (ISM) applications. To make an appointment, contact your local sales representative. For more information about MACOM's RF technology solutions, please visit: [www.macom.com](http://www.macom.com).

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.

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 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.

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**SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS:**

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