



Partners in RF & Microwave

May 24, 2013

## MACOM Extends Leadership in Diodes with Broadband Shunt Family in Ultra Small Plastic Packages

*New Shunt PIN Diode series delivers cost, time and space savings for high-power switching applications*

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. (MACOM), a leading supplier of high performance analog semiconductor solutions, today extended its strong industry position in diodes with a new family of broadband Shunt PIN Diodes for high-power switching applications.



The MACOM [Shunt PIN Diode series](#) is designed for customers who need a versatile, low cost, ultra-small Shunt PIN diode element for land mobile radio, wireless infrastructure and test instrument applications. Unlike the competition, MACOM's small, 1.5 X 1.2 mm plastic package reduces board space while enabling broadband performance comparable to chip-scale devices. Typical applications include high-power switching through 6GHz with incident power up to 100W. Boasting excellent performance, low cost and easy implementation, the Shunt PIN Diode series offers a winning combination for customers looking for high-power diode solutions.

"This family of Shunt PIN Diodes offers an excellent combination of broadband performance, ease of use and low cost," said Paul Wade, Product Manager. "These devices are ideal for customers looking for cost and space savings to implement into their solutions."

The 3 terminal, low-pass filter structure inherent in MACOM's devices provides superior low- and high signal performance compared to 2 terminal PIN diode devices, making the Shunt PIN Diodes ideal for high-power switching applications through 12 GHz with incident power up to 100W.

The table below outlines typical part number performance:

MACOM's Shunt PIN Diode Family - Providing excellent broadband performance in ultra-small plastic packages (Photo: Business Wire)

Parameters	Units	MADP-011027-14150T	MADP-011028-14150T	MADP-011029-14150T
Frequency	GHz	0.05-12	0.05-12	0.05-12
Capacitance (@-50V)	pF	0.24	0.24	0.31
Series Resistance	$\Omega$	1.9	3.4	1.5
Breakdown Voltage	V	100 (min)	200 (min)	500 (min)
Power Dissipation	W	3.3	4.3 (max)	7.5
Size	-	1.5 x 1.2	1.5 x 1.2	1.5 x 1.2
Process	-	Si	Si	Si

All part numbers and test fixtures are available upon request. Datasheets and additional product information can be obtained from MACOM's website at: [www.macomtech.com](http://www.macomtech.com)

To find out more about the Shunt PIN Diode series, as well as MACOM's extensive product portfolio, come visit us at Booth #930 at the IMS 2013 Show, June 2-7 in Seattle, Washington. For more information about the show visit: <http://www.ims2013.org/>

## **ABOUT MACOM**

M/A-COM Technology Solutions ([www.macomtech.com](http://www.macomtech.com)) is a leading supplier of high performance analog semiconductor solutions for use in radio frequency (RF), microwave, and millimeter wave applications. Recognized for its broad portfolio of products, MACOM serves diverse markets, including CATV, wireless infrastructure, optical communications, aerospace and defense, automotive, industrial, medical, and mobile devices. MACOM builds on more than 60 years of experience designing and manufacturing innovative product solutions for customers worldwide.

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.

MACOM, M/A-COM, M/A-COM Technology Solutions, M/A-COM Tech, The First Name in Microwave and related logos are trademarks of MACOM. All other trademarks are the property of their respective owners.

Photos/Multimedia Gallery Available: <http://www.businesswire.com/multimedia/home/20130524005072/en/>

## **FOR SALES INFORMATION:**

M/A-COM Technology Solutions Inc.  
North Americas -- Phone: 800-366-2266  
Europe -- Phone: +353.21.244.6400  
India -- Phone: +91.80.43537383  
China -- Phone: +86.21.2407.1588

or

## **MEDIA:**

M/A-COM Technology Solutions Inc.  
Husrav Billimoria, 978-656-2896  
[Husrav.Billimoria@macomtech.com](mailto:Husrav.Billimoria@macomtech.com)

or

Rainier Communications  
Jessie Glockner, 508-475-0025 x140  
[jglockner@rainierco.com](mailto:jglockner@rainierco.com)

Source: M/A-COM Technology Solutions Inc.