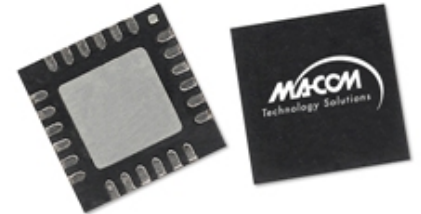




M/A-COM Technology Solutions Announces S-Band Additions to Family of Digital Phase Shifters

New Phase Shifters Deliver Fast Switching Speed, Low Phase Error, and Serial or Parallel Control Capability

Lowell, MA, October 11, 2011 - M/A-COM Technology Solutions Inc. (M/A-COM Tech), a leading supplier of high performance analog semiconductor solutions, introduced today a new set of S-Band digital phase shifters for communications, electronic warfare (EW), and radar applications. These phase shifters facilitate easy implementation in communication antennas, phased array radars, weather radars, and EW receivers. The S-Band GaAs pHEMT 4-Bit and 6-Bit digital phase shifters meet the high performance requirements of communications and radar system manufacturers, optimizing for fast switching speed, low phase error, and serial or parallel control capability.



"M/A-COM Tech's new 2.3 GHz to 3.8 GHz digital phase shifters maintain low phase error and low attenuation variation over the 360° range," said Kevin Harrington, Product Manager. "The built-in CMOS driver allows for serial or parallel control while in a small form factor."

The [MAPS-010144](#) is a 4-Bit digital phase shifter housed in a 4mm 24-lead PQFN Package. It provides 360° phase shift range with a step size of 22.5°. It is controlled with a single +5.0 V serial or parallel control line. Its insertion loss is 2.5 dB, with a low +/- 0.5 dB attenuation variation and +/- 4.0° phase accuracy over the 2.3 GHz to 3.8 GHz frequency range.

The [MAPS-010164](#) is a 6-Bit digital phase shifter housed in a 4mm 24-Lead PQFN Package. It provides 360° phase shift range with a step size of 5.625°. It is controlled with a single +5.0 V serial or parallel control line. Its insertion loss is 3.2 dB, with a low +/- 0.6 dB attenuation variation and +/- 5.0° phase accuracy over the 2.3 GHz to 3.8 GHz frequency range.

The table below outlines specific part number performance:

Parameters	Units	MAPS-010144	MAPS-010164
		Typ	Typ
Insertion Loss (any phase)	dB	2.5	3.2
Attenuation Variation	dB	+/- 0.5	+/- 0.6
Phase Accuracy	deg	+/- 4.0	+/- 5.0
RMS Attenuation Error	dB	0.35	0.3
RMS Phase Error	deg	2.5	3.0
Input IP3	dBm	47	45
Package		4mm 24-lead PQFN	4mm 24-lead PQFN

Production quantities and samples of MAPS-010144 and MAPS-010164 are available from stock. Final datasheets and additional product information can be obtained from the M/A-COM Tech website at: www.macomtech.com

ABOUT M/A-COM TECHNOLOGY SOLUTIONS INC.

M/A-COM Technology Solutions (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, M/A-COM Tech serves diverse markets, including CATV, wireless infrastructure, optical communications, aerospace and defense, automotive, industrial, medical, and mobile devices. M/A-COM Tech builds on more than 60 years of experience designing and manufacturing innovative product solutions for customers worldwide.

Headquartered in Lowell, Massachusetts, M/A-COM Tech is certified to the ISO9001 international quality standard and ISO14001 environmental management standard. M/A-COM Tech has design centers and sales offices throughout North America, Europe, Asia and Australia.

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