

M/A-COM Technology Solutions Announces New Set of Digital Phase Shifters

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Lowell, MA, August 8, 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 digital phase shifters for communications, electronic warfare (EW), and radar applications. The phase shifters facilitate easy implementation in communication antennas, phased array radars, weather radars, and EW receivers. The 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 1.4 GHz to 2.4 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 and low DC power consumption."

The MAPS-010143 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 +5.0V serial or parallel control line. Its insertion loss is 3.2dB, with a low +/- 0.5dB attenuation variation and +/- 2.0° phase accuracy over the 1.4 GHz to 2.4 GHz frequency range.

The MAPS-010163 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 +5.0V serial or parallel control line. Its insertion loss is 5.0dB, with a low +/- 0.8dB attenuation variation and +/- 4.0° phase accuracy over the 1.4 GHz to 2.4 GHz frequency range.

The table below outlines specific part number performance:

Parameters	Units	MAPS-010143	MAPS-010163
		Typ	Typ
Insertion Loss (any phase)	dB	3.2	5.0
Attenuation Variation	dB	+/- 0.5	+/- 0.8
Phase Accuracy	deg	+/- 2.0	+/- 4.0
RMS Attenuation Error	dB	0.35	0.4
RMS Phase Error	deg	2.0	3.0
Input IP3	dBm	40	40
Package		4mm 24-Lead PQFN	4mm 24-Lead PQFN

Production quantities and samples of MAPS-010143 and MAPS-010163 are available from stock. Final datasheets and additional product information can be obtained from the M/A-COM Tech website at: www.macomtech.com/Phase-Shifters

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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