



Planar Monolithics Industries, Inc.

RF & Microwave Components and Modules to 40GHz

ISO9001:2008 Certified

May 21, 2014

32.0 to 37.0GHz 8-Bit Digital Phase Shifter

PMI Model No. PS-360-3237-8-292FF



PMI Model No. PS-360-3237-8-292FF is a High Speed, Millimeter Wave, 8-Bit Digitally Controlled, Phase Shifter that operates over the frequency range of 32.0 to 37.0GHz. This phase shifter offers a low insertion loss of 13dB typically and maintains a VSWR of 1.8:1. The total phase shift range is 358.593° having a step size of 1.406° and switches between states in less than 500ns. This model provides a high level of accuracy by offering an amplitude error of ±1.5dB and a phase shift error of ±1.3°. Ultra-Low DC Current consumption is offered at +15VDC, 20mA and -15VDC, 10mA. This unit is supplied in a small housing measuring 1.15" x 1.80" x 0.4" with 2.92mm female connectors.

Frequency	32.0 to 37.0GHz
Insertion Loss	13.0dB typ
VSWR	2.0:1 typ
LSB	1.40625°
Control Bits	8 line (TTL Control)
Switching Speed	500 nS Maximum
Power Supply	+15V @ 90mA Maximum -15V @ 60mA Maximum
Connectors	2.92mm Female Input & Output
Size	1.150" X 1.800" X 0.4"

Temperature:	-55°C to +85 °C Operating -65 °C to +125 °C Non-Operating
Humidity:	MIL-STD-202F, Method 103B Cond. B
Shock:	MIL-STD-202F, Method 213B Cond. B
Vibration:	MIL-STD-202F, Method 204D Cond. B
Altitude:	MIL-STD-202F, Method 105C Cond. B
Temperature Cycle:	MIL-STD-202F, Method 107D Cond. A

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F Grove Road, Frederick,
Maryland 21704 USA |

4921 Roberts J. Mathews Parkway
Suite 1 El Dorado Hills, CA 95762 USA

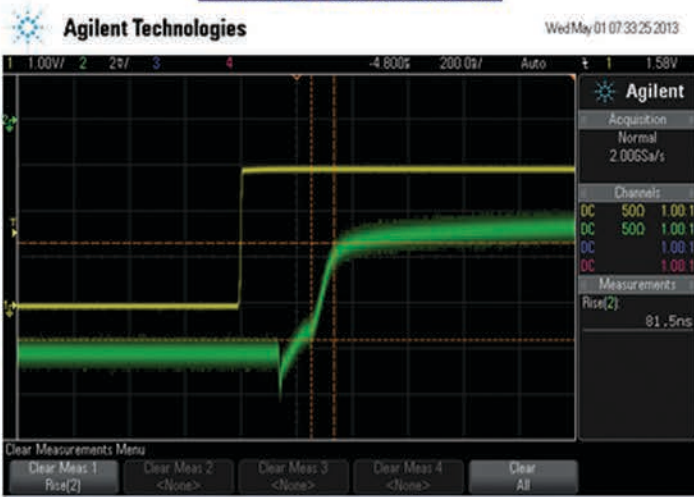
Tel: 301-662-5019 | Fax: 301-662-1731

Tel: 916-542-1401 | Fax: 916-265-2597

Email: sales@pmi-rf.com | www.pmi-rf.com

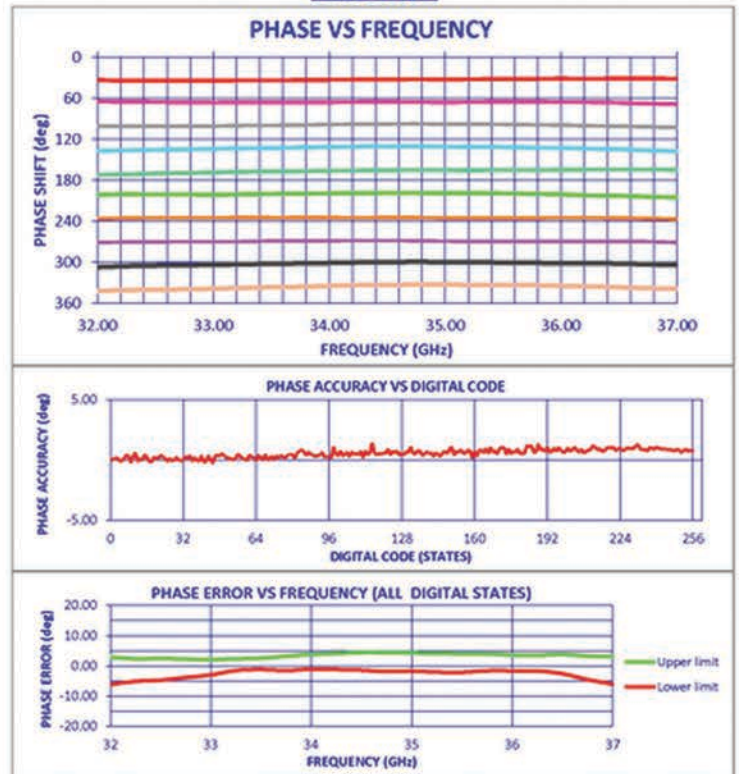
ISO9001:2008 Certified

Switching Speed (Rise Time, Delay On)

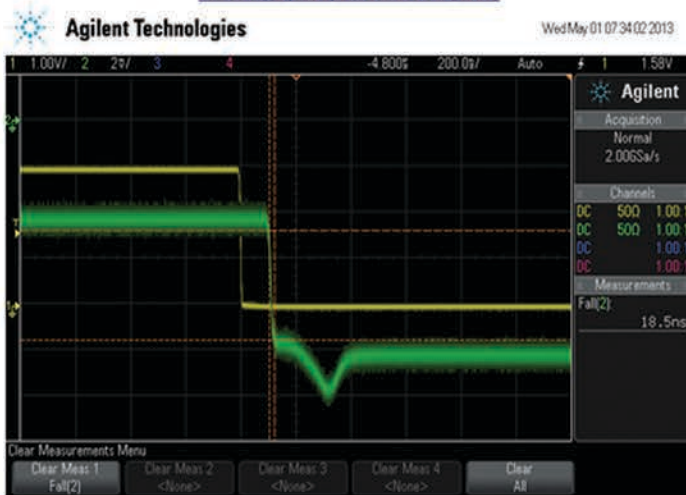


Yellow Trace: Input Signal
Green Trace: Phase Measured with a Mixer

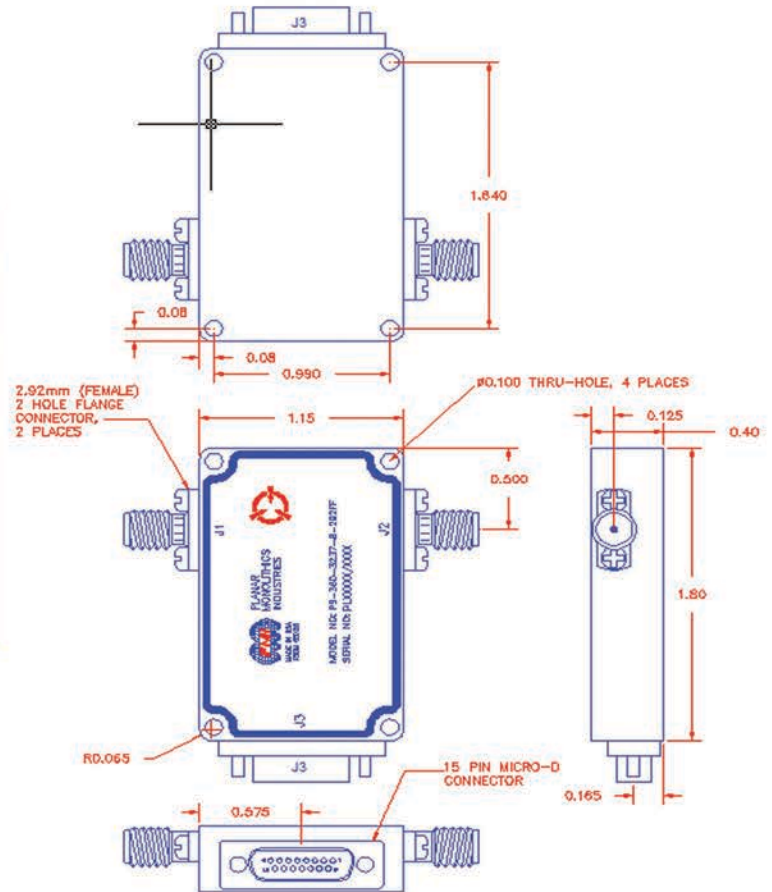
Phase Graphs



Switching Speed (Fall Time, Delay Off)



Yellow Trace: Input Signal
Green Trace: Phase Measured with a Mixer



PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F Grove Road, Frederick,
Maryland 21704 USA |

Tel: 301-662-5019 | Fax: 301-662-1731

4921 Roberts J. Mathews Parkway
Suite 1 El Dorado Hills, CA 95762 USA

Tel: 916-542-1401 | Fax: 916-265-2597

Email: sales@pmi-rf.com | www.pmi-rf.com

ISO9001:2008 Certified