

PHASE SHIFTER

SURFACE MOUNT MODEL: SPS-312

OPTIMIZED BANDWIDTH

306 - 318 MHz

FEATURES:

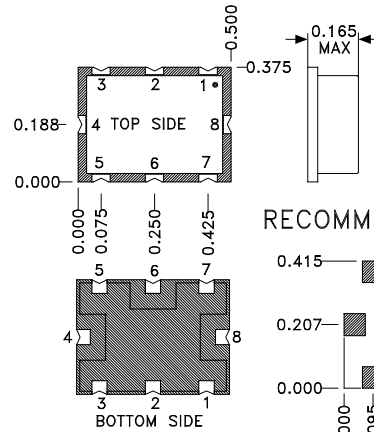
- ▶ Over 180° Phase Shift
- ▶ Good Tuning Linearity
- ▶ Low Control Voltage
- ▶ Low Insertion Loss
- ▶ Low VSWR



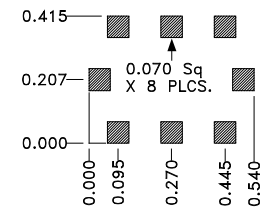
SPECIFICATIONS (Rev. A 08/16/11)

Frequency	306 - 318 MHz				
Insertion Loss (dB)	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Typ.</td> <td>Max.</td> </tr> <tr> <td>1.2</td> <td>1.8</td> </tr> </table>	Typ.	Max.	1.2	1.8
Typ.	Max.				
1.2	1.8				
Control Bandwidth	DC to 50 kHz				
Control Voltage	0 - 14 V (Max.)				
Phase Shift Range	0 - 180° (Min.)				
VSWR	1.65:1 (Typ.)				
Input Power	0 dBm (Max.)				
Impedance	50 Ohms (Nom.)				
Operating Temperature Range	-40 to +85 °C				

Package # 357



RECOMMENDED PCB LAYOUT



TOLERANCES ON THREE DECIMAL PLACES = ± 0.015

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7301

PORT CONFIGURATION			
Input	Output	CTRL	GND
4	8	6	All Others

Absolute Maximum Ratings

Storage Temp. Range	-55 to +100 °C
RF Input Power	+20 dBm
Control Voltage	+20 V

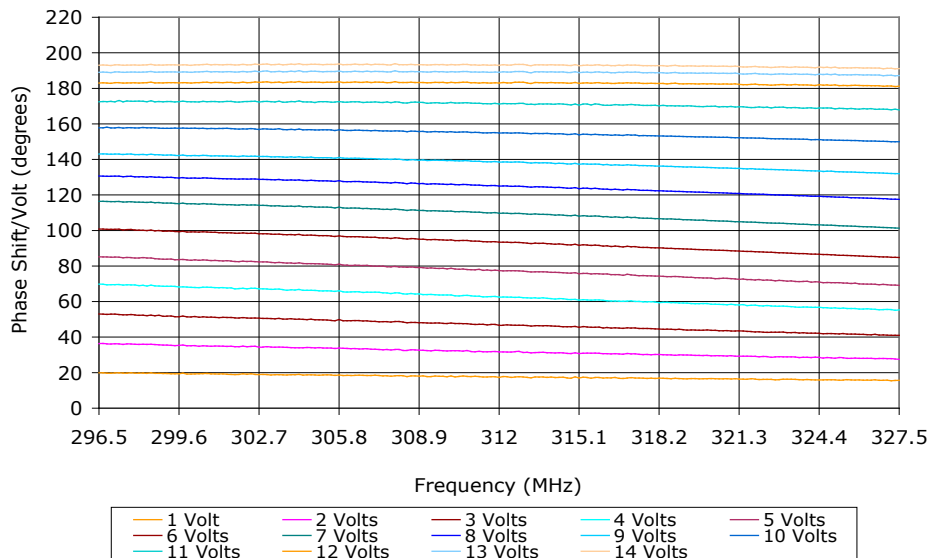
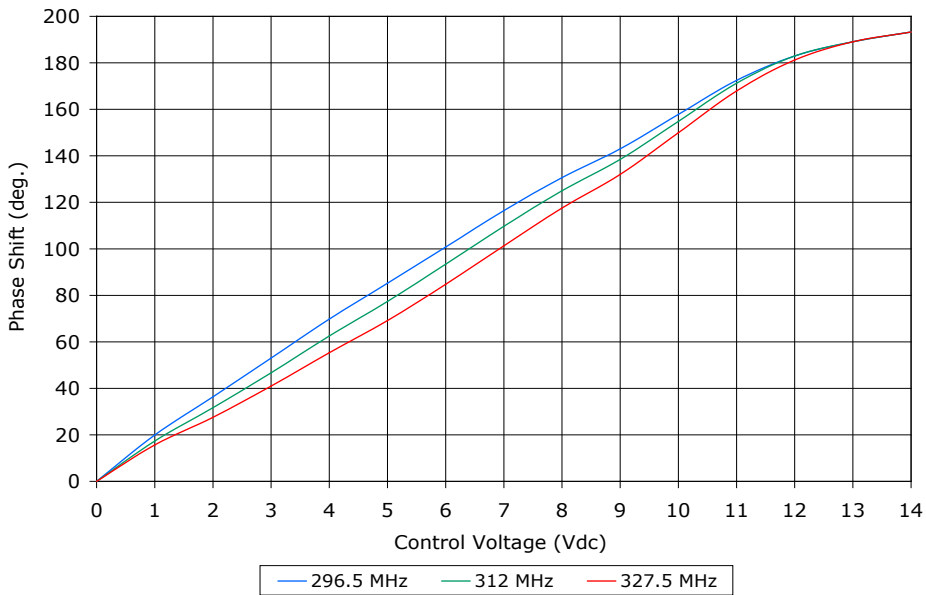
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Data @ 25°C



PERFORMANCE PLOTS

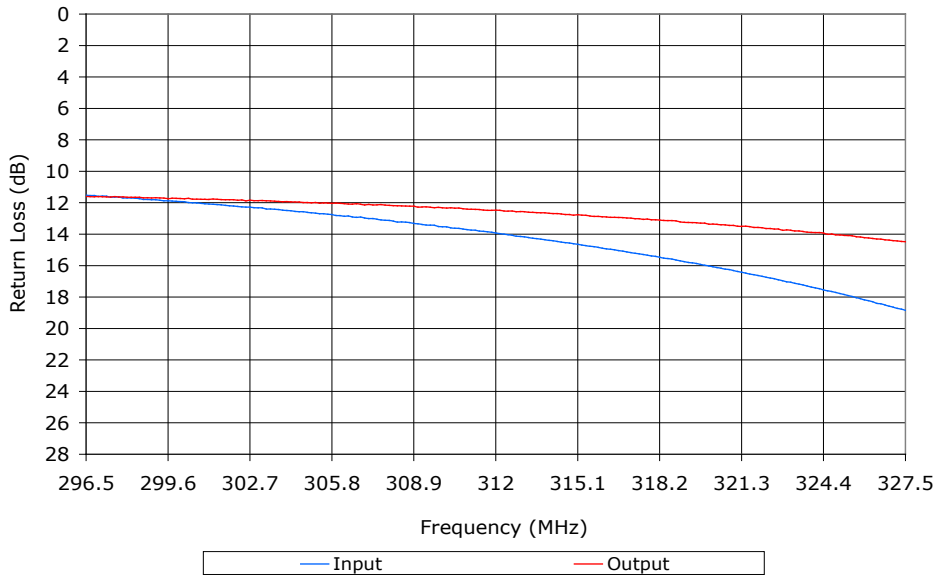
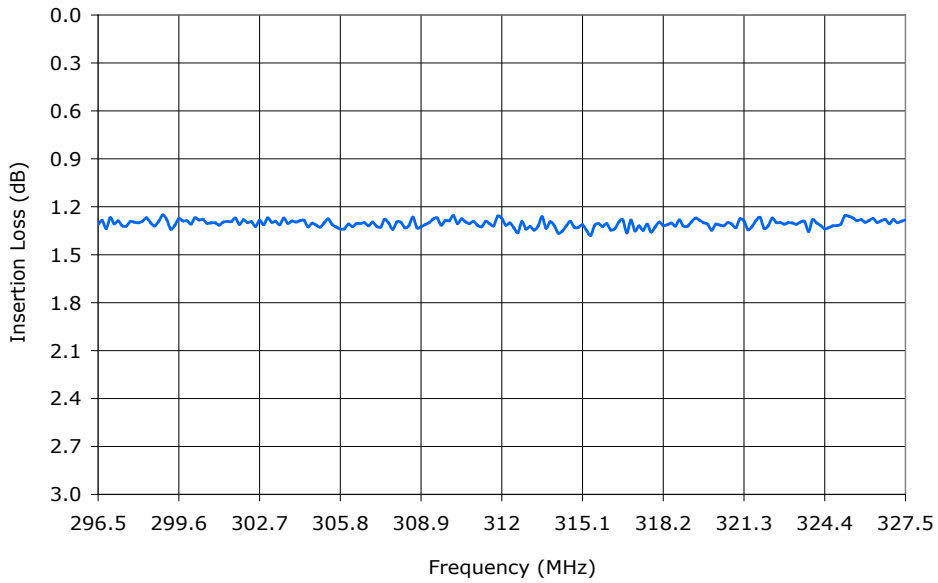
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