

PHASE SHIFTER

SURFACE MOUNT MODEL: SPS-1300

OPTIMIZED BANDWIDTH

1290 - 1310 MHz

FEATURES:

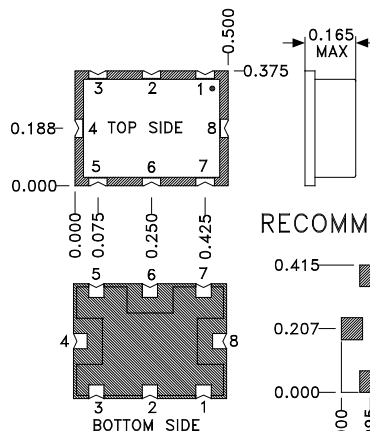
- ▶ Over 120° Phase Shift
- ▶ Good Tuning Linearity
- ▶ Low Control Voltage
- ▶ Low Insertion Loss
- ▶ Low VSWR



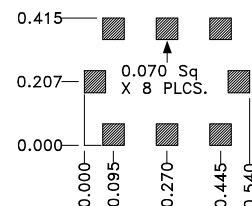
SPECIFICATIONS (Rev. A 08/16/11)

Frequency	1290 - 1310 MHz	
Insertion Loss (dB)	Typ.	Max.
	1.25	1.8
Control Bandwidth	DC to 250 kHz	
Control Voltage	0 - 12 V (Max.)	
Phase Shift Range	0 - 120° (Min.)	
VSWR	1.55:1 (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

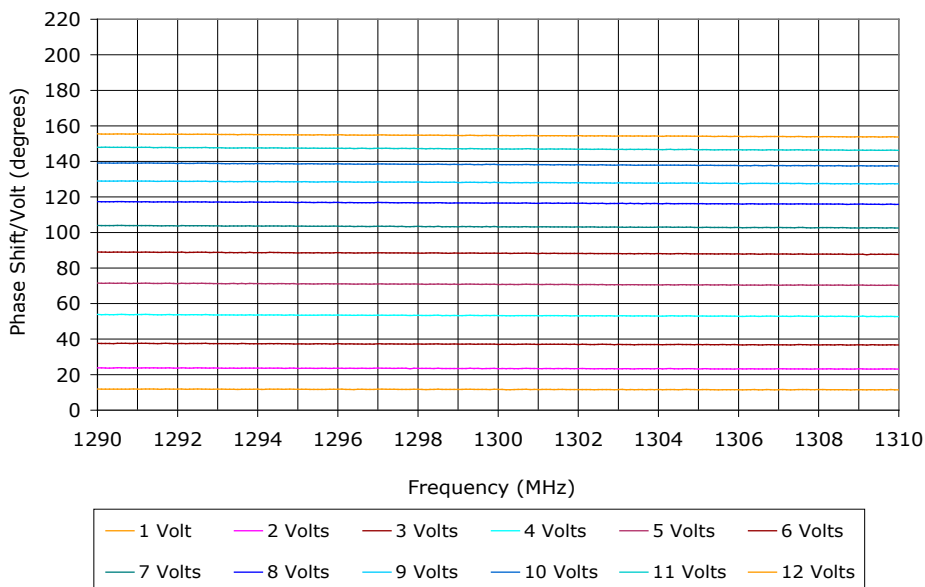
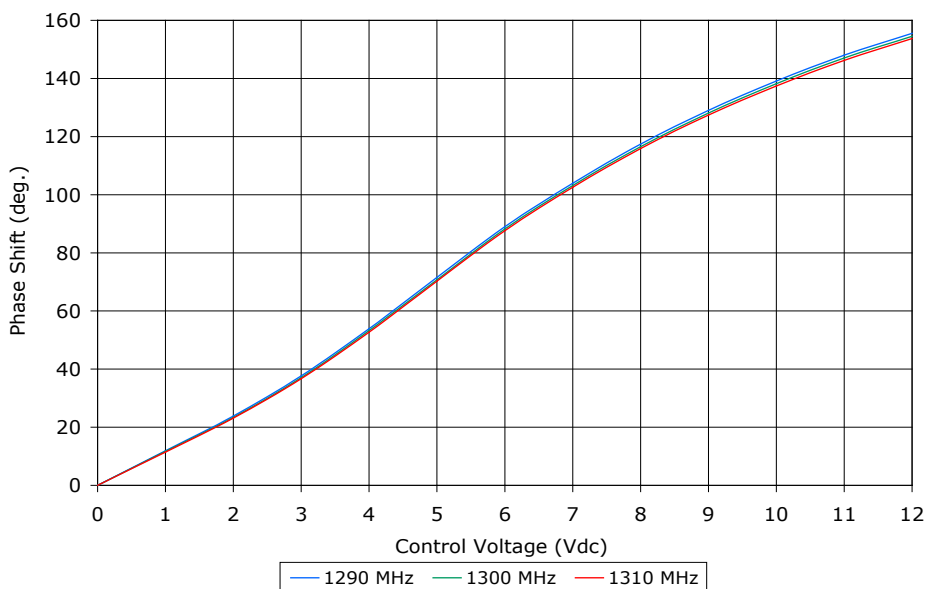
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Data @ 25°C



PERFORMANCE PLOTS

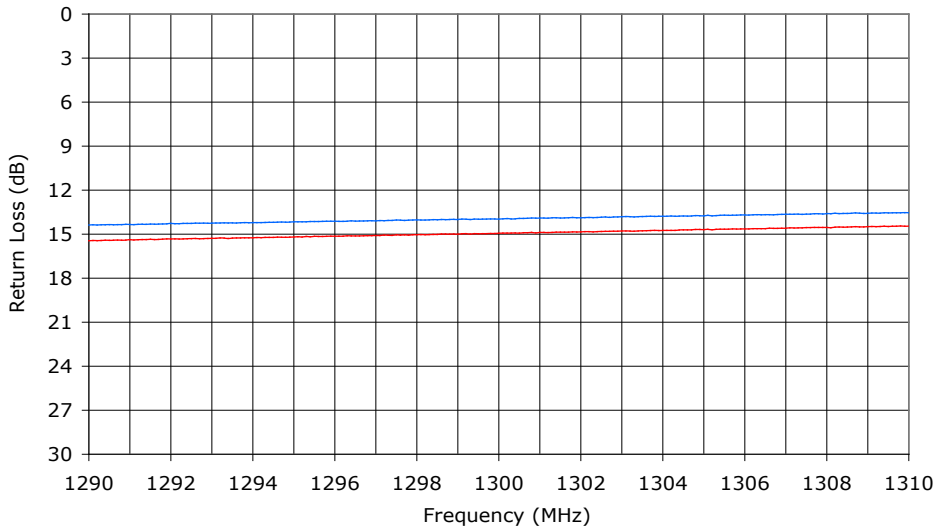
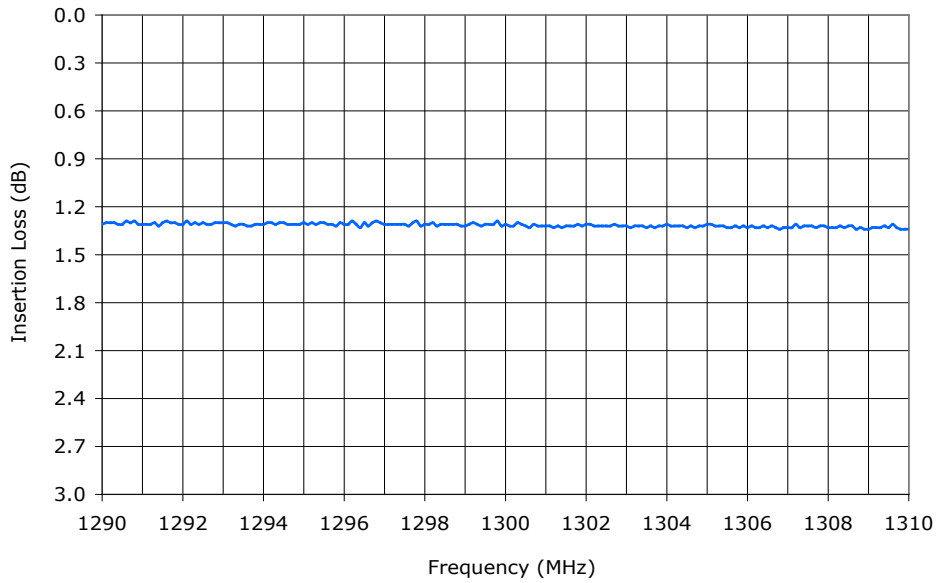
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— Input — Output

PERFORMANCE PLOTS