SKP-0631830536-SFSF-A1

Rev. 1.0

Analog Controlled Phase Shifter, 6 to 18 GHz

Description:

Model SKP-0631830536-SFSF-A1 is an analog controlled phase shifter that covers the frequency range of 6 to 18 GHz. The phase shifter can be used in many applications such as transmit/receive modules and phased arrays. The phase shifter exhibits 5 dB typical insertion loss and offers a 360 degree phase shifting range.

Features:

- Analog Controlled
- 360° Phase Shifting
- Low DC Power Consumption

Applications:

- Test Lab
- Phased Array Radar
- Transmit/Receive Modules
- Communications Antennas

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
RF Frequency	6 GHz		18 GHz
Insertion Loss		5 dB	
Phase Shifting	0°		360°
Control Voltage	+0 V_{DC}		+10 V_{DC}
Return Loss		7 dB	
Power Handling			+25 dBm
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

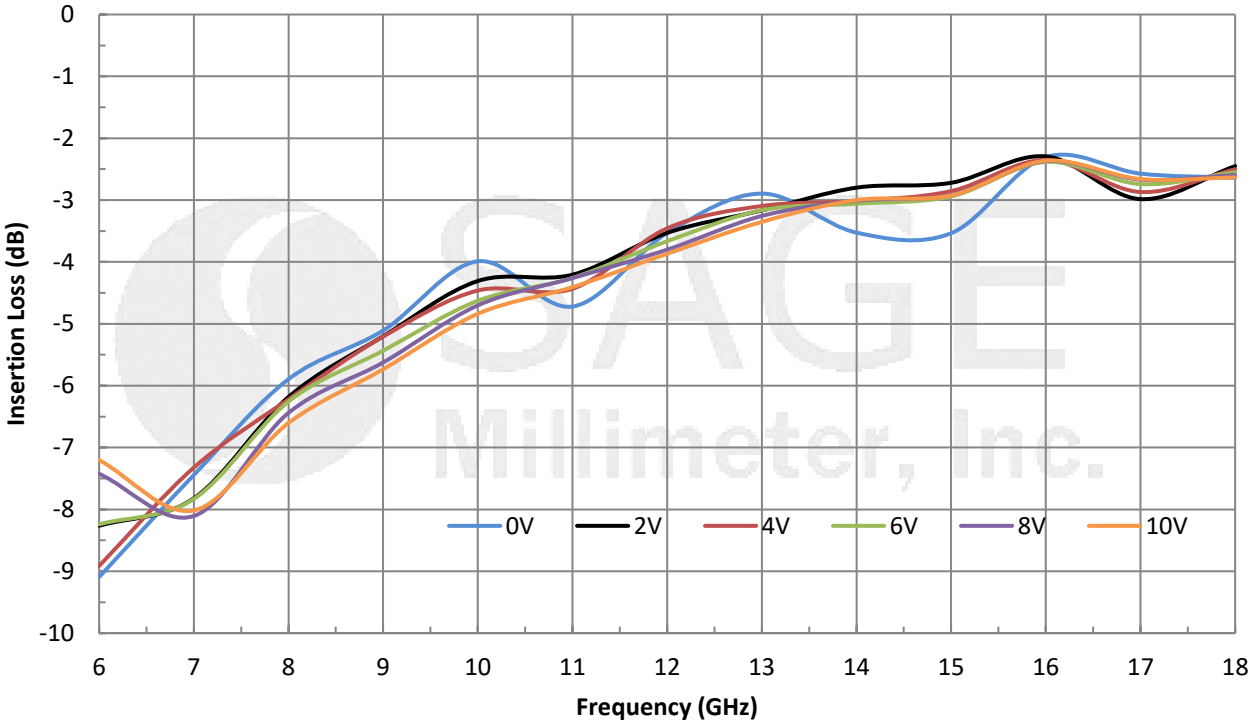
Mechanical Specifications:

Item	Specification
RF Ports	SMA (F)
Control Type	Analog
Control and Bias Connector	D-Sub 9 Pin Connector (F)
Case Material	Aluminum
Finish	Gold Plated
Weight	1.3 Oz
Size	1.57” (L) x 1.30” (W) x 0.59” (H)
Outline	KP-AC-S1

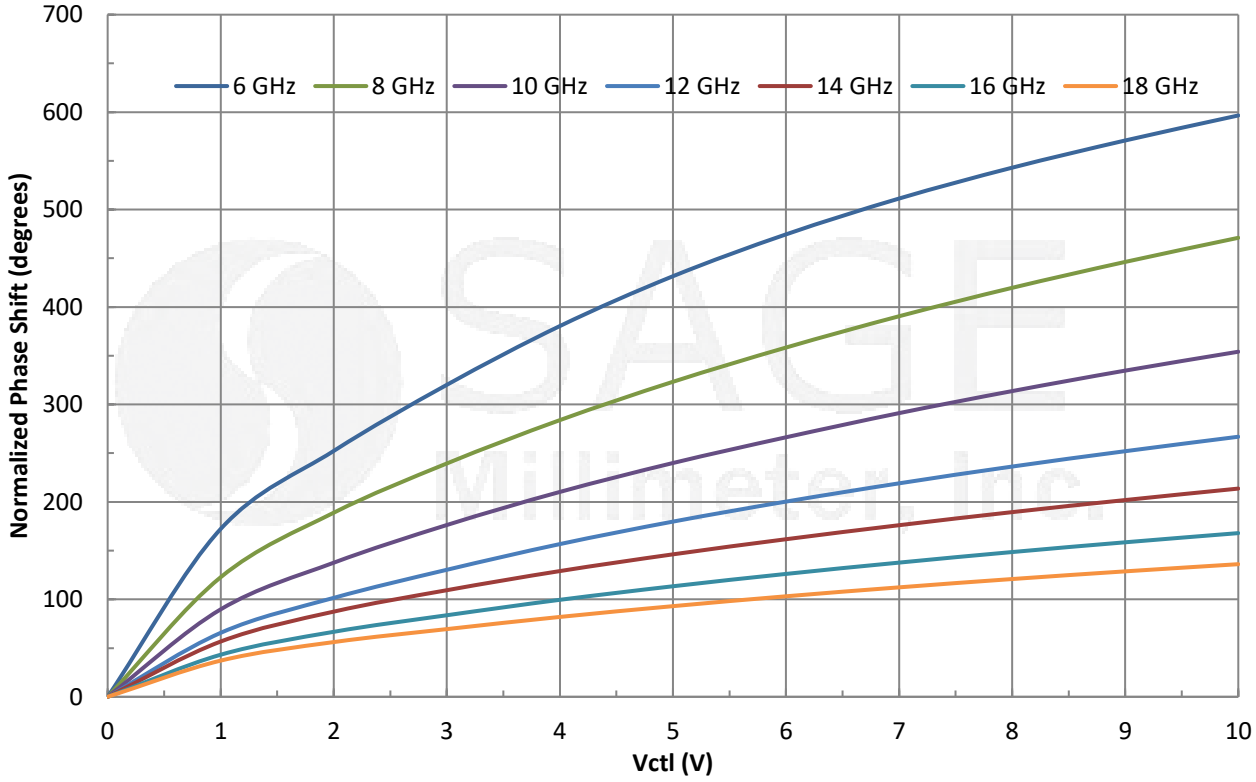
www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505
Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com

Analog Controlled Phase Shifter, 6 to 18 GHz

Typical Insertion Loss vs. Frequency

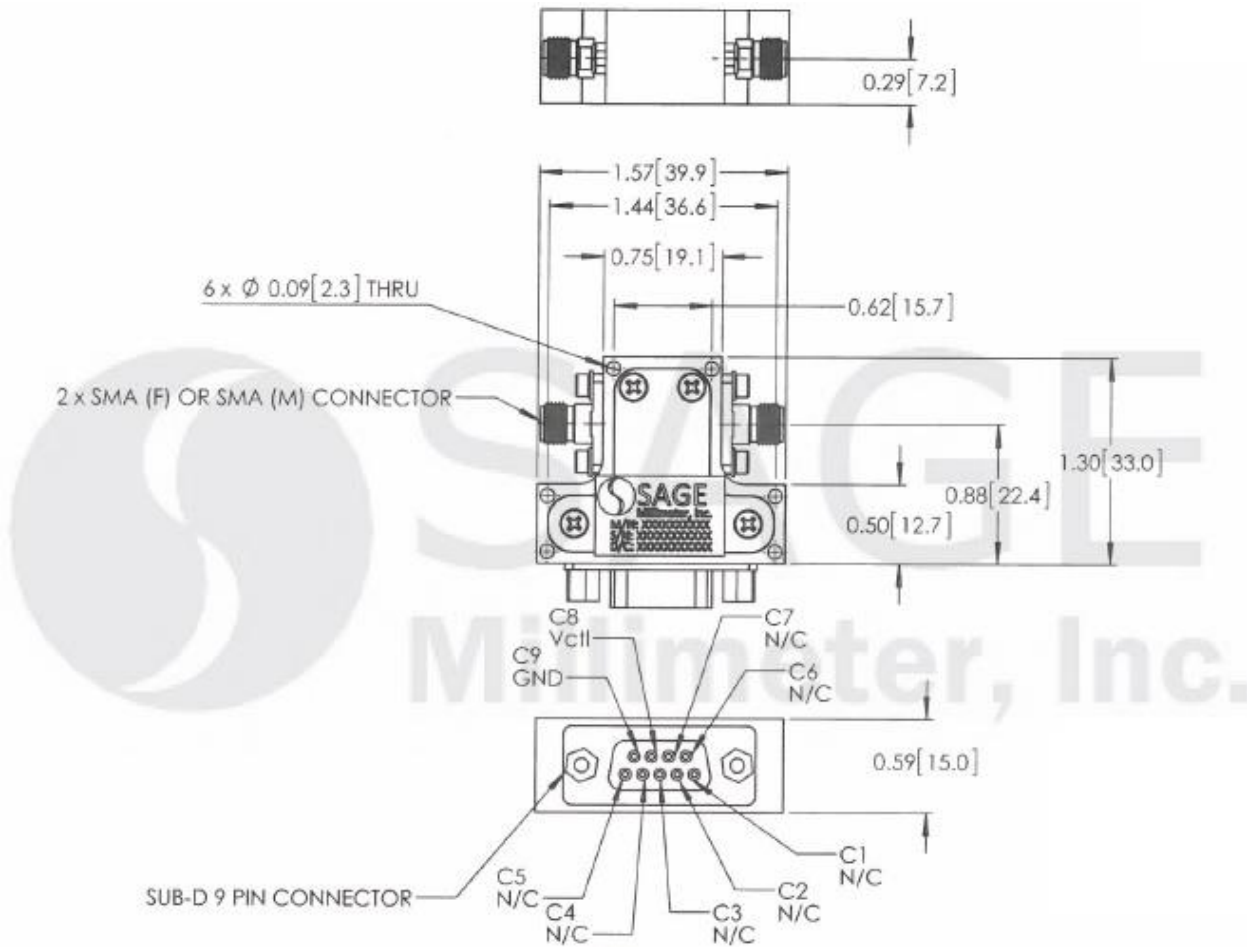


Typical Phase Shift vs. Control Voltage



Analog Controlled Phase Shifter, 6 to 18 GHz

Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:

- Other mechanical configurations are available under different model numbers.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Exceeding absolute maximum ratings shown will damage the device.
- The device is a static sensitive. Always follow ESD rules when working with the attenuator.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.92 ± 0.05 Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**