

**SMA 8 Bit Programmable Phase Shifter 360 Deg
 Phase Shift 256 Steps From 6 GHz to 18 GHz**

The SDPS-0618-360-SMA is an 8 Bit Digital Controlled Phase Shifter with 360 Deg Phase Range with a switching speed of 500 ns Max over the Operating Frequency Range from 6 GHz to 18 GHz. The Module is offered in a slim line housing measuring only 0.5" Height.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	6		18	GHz
Phase Shift			360	Degrees
Input VSWR			2:1	
Insertion Loss		10	12	dB
Phase Accuracy			±15	Degrees
PM/AM Error			±2.5	dB
Switching Speed			500	ns
Translation Rate	0		500	KHz
Carrier Suppression		18		dBc
Side Band Suppression		15		dBc
Harmonics		-25		dBc
Voltage Supply 1			5	Vdc
Current Supply 1			115	mA
Voltage Supply 2	-15		-12	Vdc
Current Supply 2			20	mA
Input Power, CW			0.1	Watts
Input Power, CW (Survival)			+20	dBm

Mechanical Specifications

Size	
Length	1.6 in [40.64 mm]
Width/Diameter	1.75 in [44.45 mm]
Height	0.5 in [12.7 mm]
Weight	0.138 lbs [62.6 g]

Configuration

Input Connector	SMA Female
Output Connector	SMA Female

Environmental Specifications

Temperature

Operating Range	-55 to 85 deg C
Storage Range	-65 to 150 deg C

Humidity	MIL-STD-202G, METHOD 103B COND. B
Shock	MIL-STD-202G, METHOD 213B COND. B
Vibration	MIL-STD-202G, METHOD 204D COND. B
Altitude	MIL-STD-202G, METHOD 105C COND. B
Temperature Cycle	MIL-STD-202G, METHOD 107D COND. A



Features:

- 8 Bit Digital Controlled Phase Shifter
- 6 GHz to 18 GHz Frequency Range
- +/-15 Deg Max Accuracy
- 360 Deg Phase Shift in 256 Steps
- 500 ns Max Switching Speed
- +20 dBm Max Input Power
- Insertion Loss 10 dB Typ

Applications:

- Electronic Warfare
- Test & Measurement
- Military & Space
- Radar
- Military Communications Systems

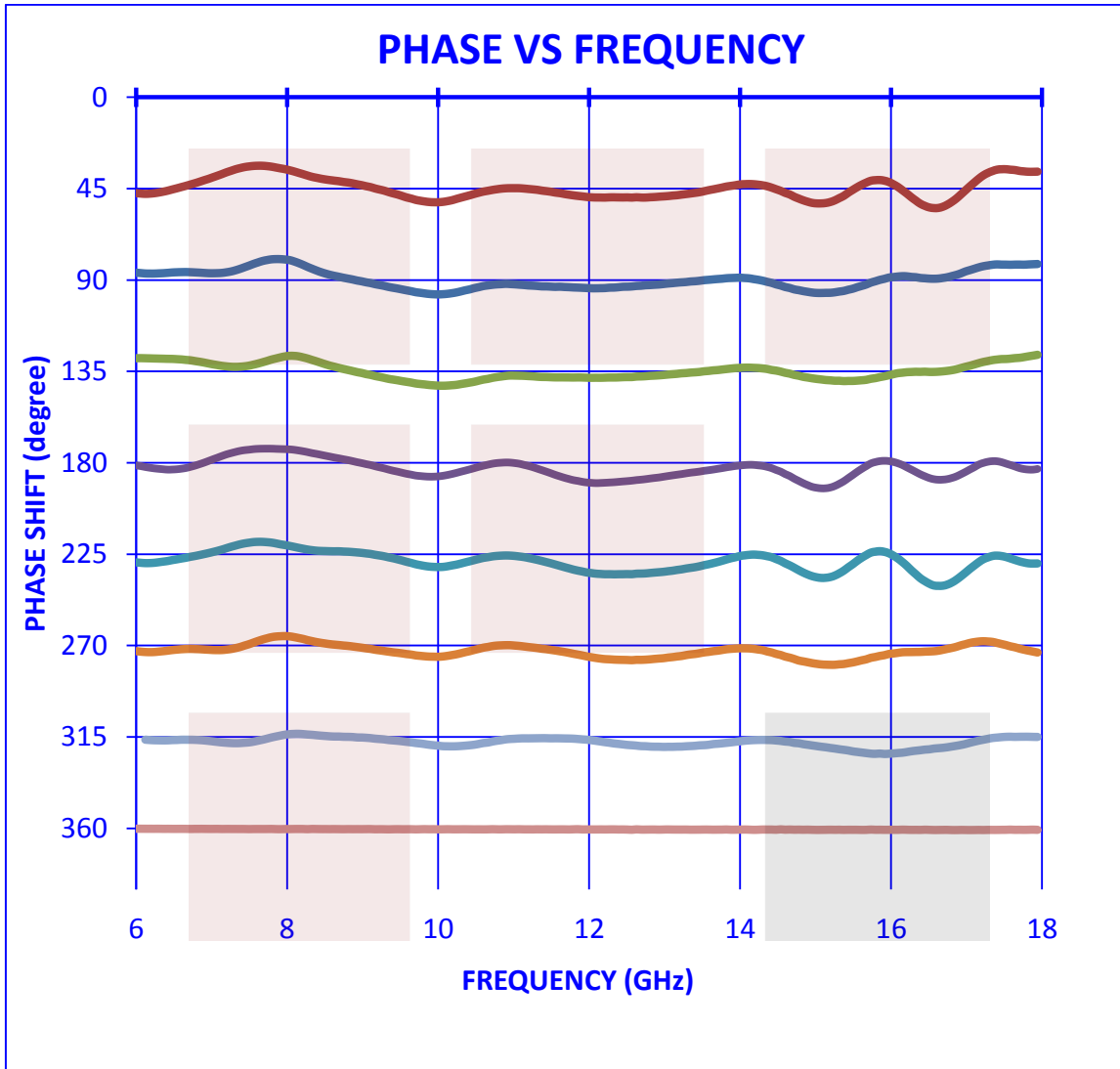
Fairview Microwave
 1130 Junction Dr. #100
 Allen, TX 75013
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

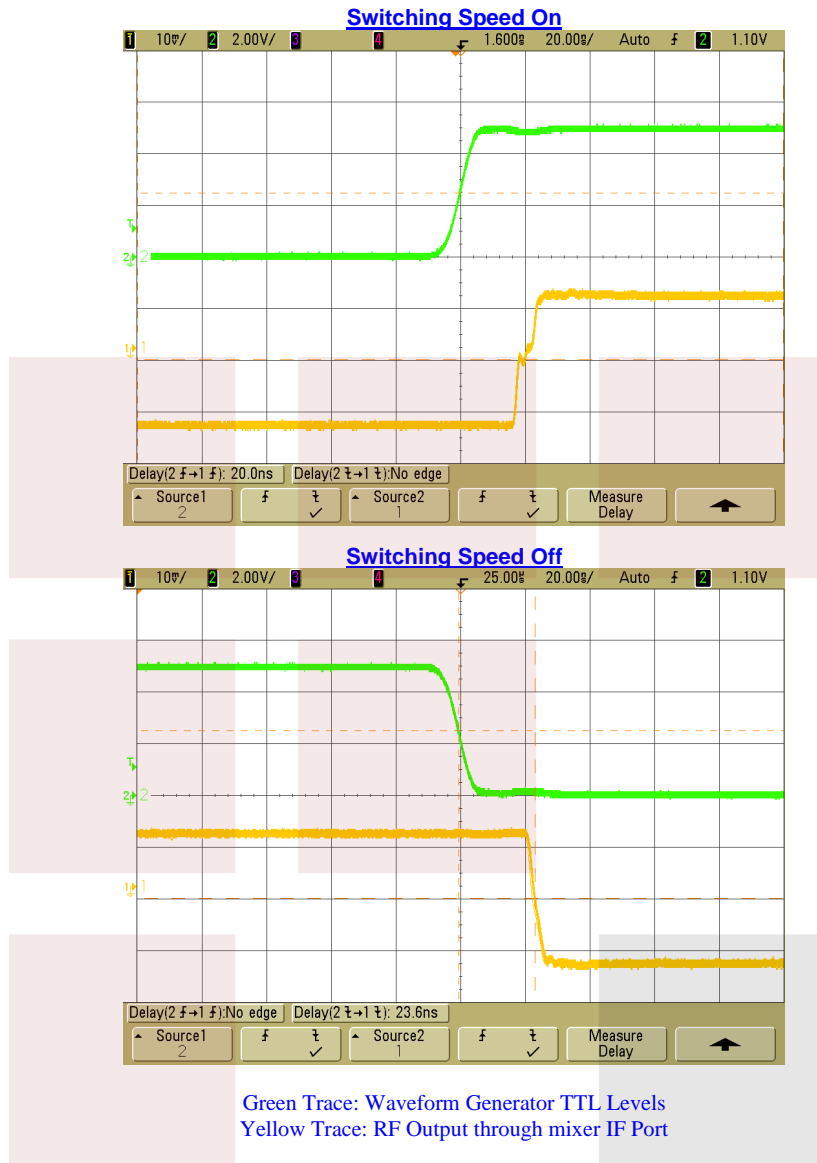
Compliance Certifications (visit www.FairviewMicrowave.com for current document)
 REACH Compliant 12/17/2015

Plotted and Other Data

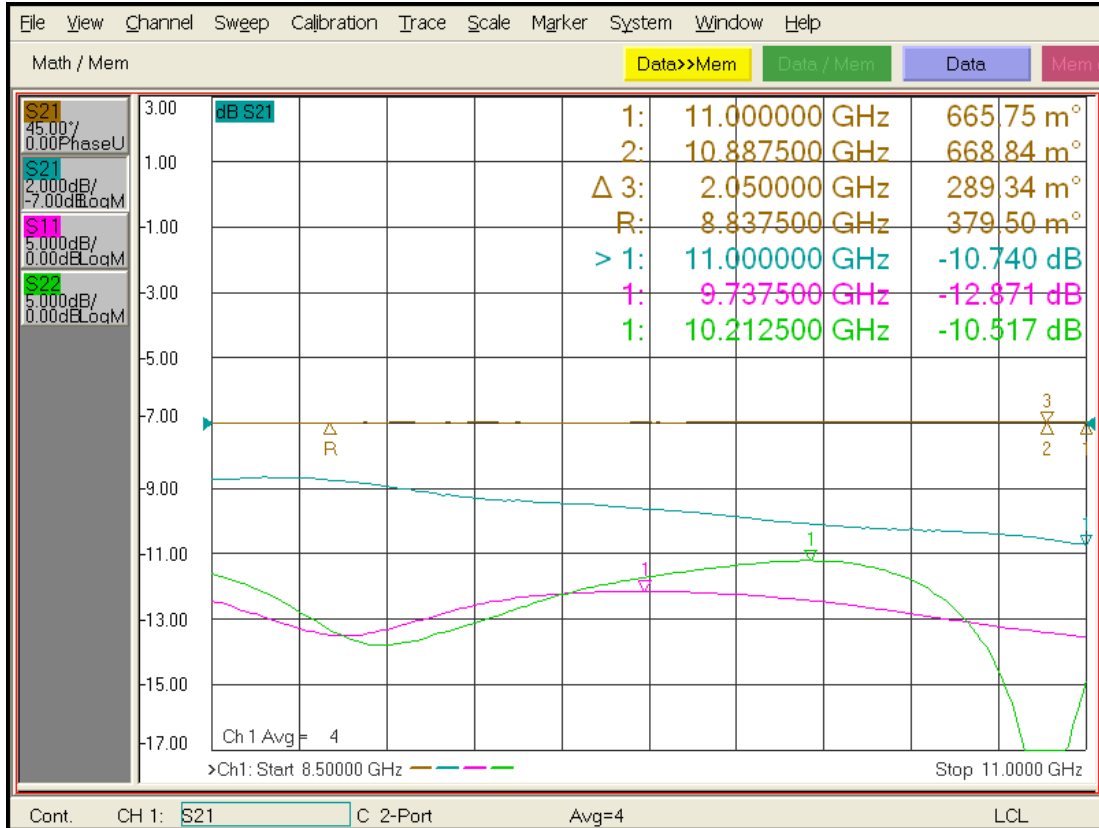
Notes:

Typical Performance Data

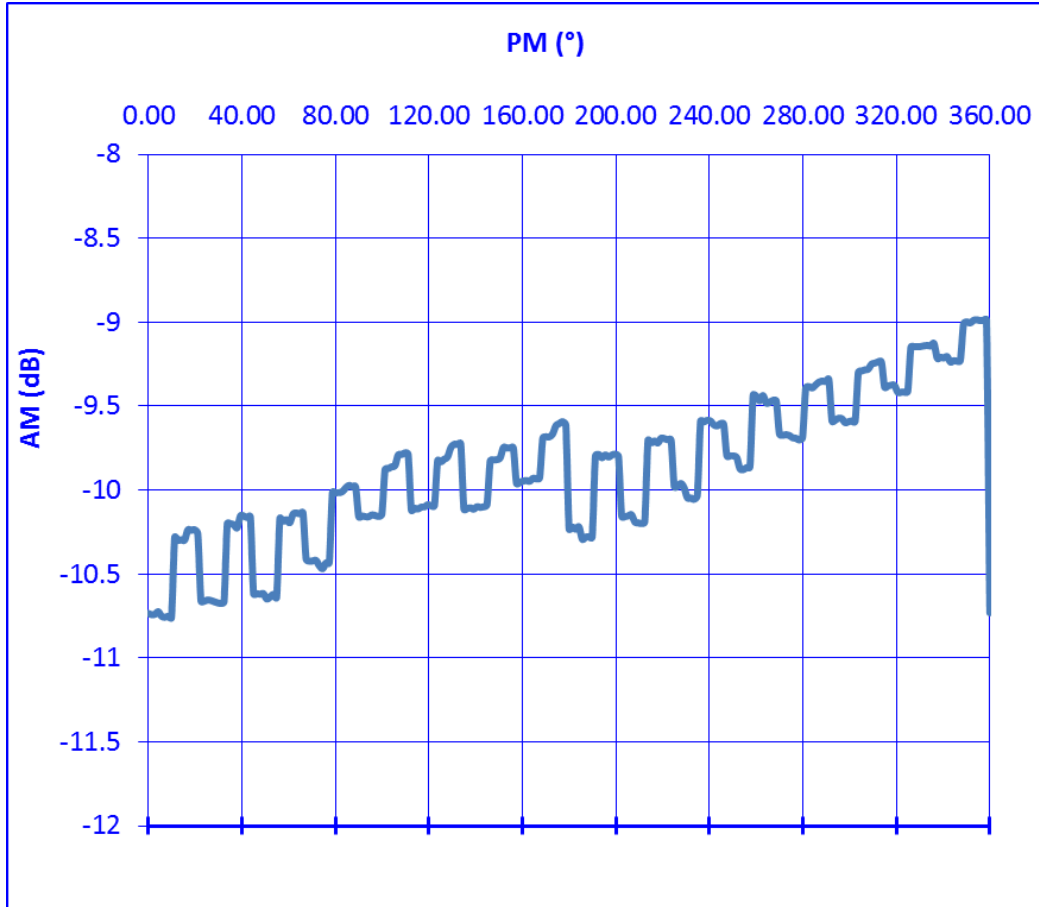




Insertion Loss, Phase, and Return Loss 0 Degrees



PM/AM Flatness

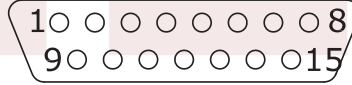
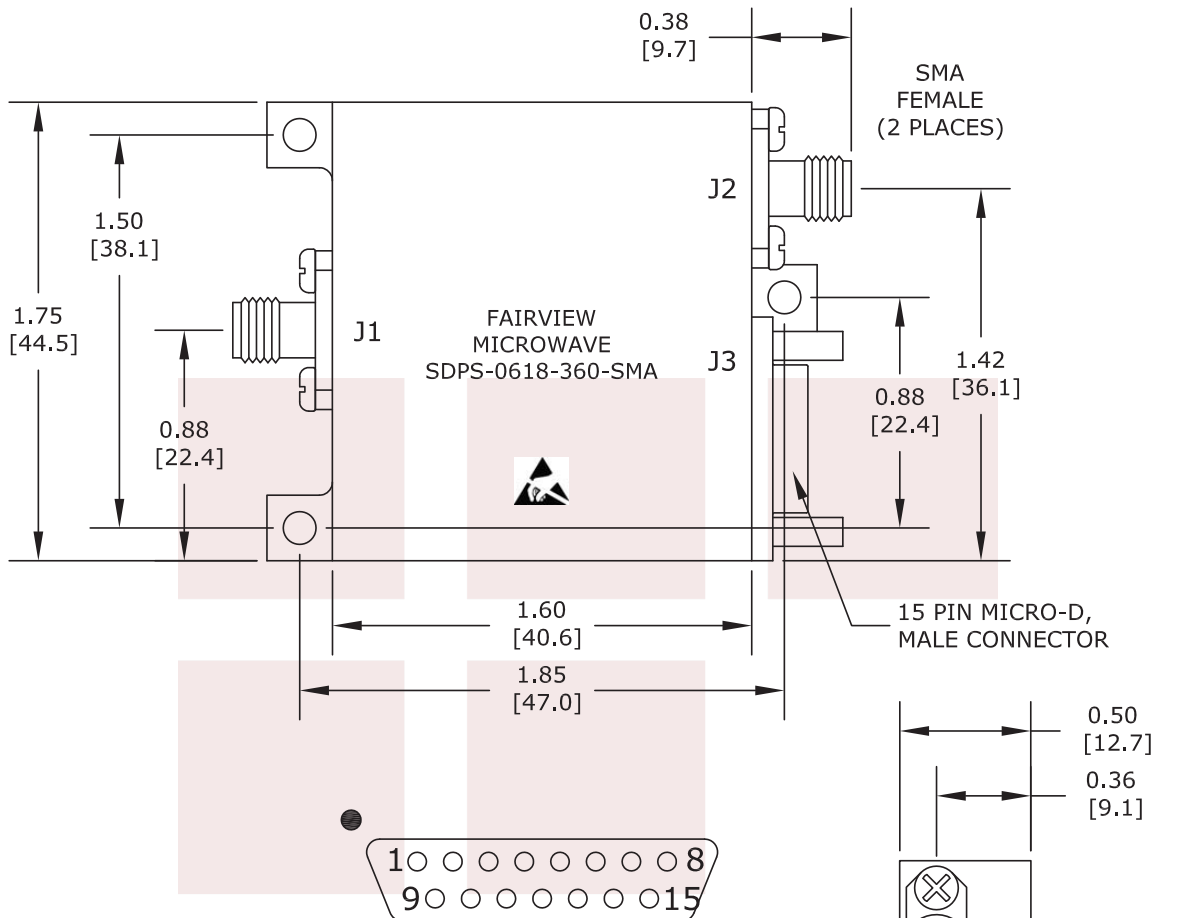


SMA 8 Bit Programmable Phase Shifter 360 Deg Phase Shift 256 Steps From 6 GHz to 18 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA 8 Bit Programmable Phase Shifter 360 Deg Phase Shift 256 Steps From 6 GHz to 18 GHz SDPS-0618-360-SMA](https://www.fairviewmicrowave.com/sma-8-bit-programmable-phase-shifter-360-deg-phase-shift-256-steps-from-6-ghz-to-18-ghz-sdps-0618-360-sma)

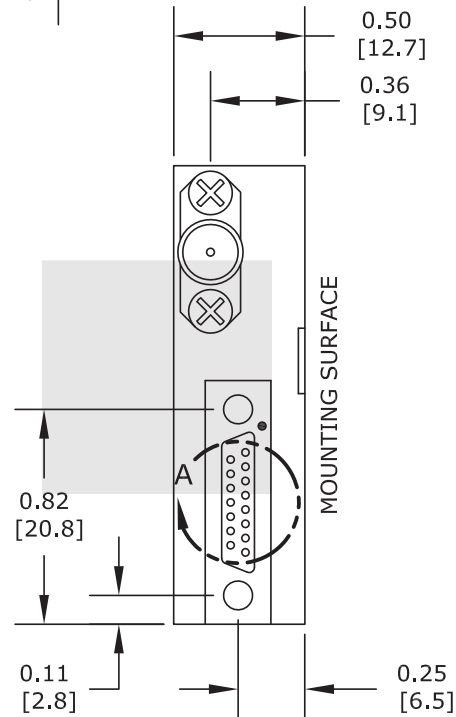
URL: <https://www.fairviewmicrowave.com/sma-8-bit-programmable-phase-shifter-6-18-ghz-sdps-0618-360-sma-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



View A

CONNECTOR TABLE			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	GROUND	9	90°
2	+5V	10	180° (MSB)
3	-12V TO -15V	11	NO CONNECTION
4	1.4° (LSB)	12	45°
5	2.8°	13	GROUND
6	5.6°	14	NO CONNECTION
7	22.5°	15	NO CONNECTION
8	11.3°		



FAIRVIEW MICROWAVE INC.
 ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM

NOTES:
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
 3. DIMENSIONS ARE IN INCHES [mm].

TITLE
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DWG NO SDPS-0618-360-SMA CAGE CODE 3FKR5

CAD FILE 092914 SHEET SCALE N/A SIZE A 2233