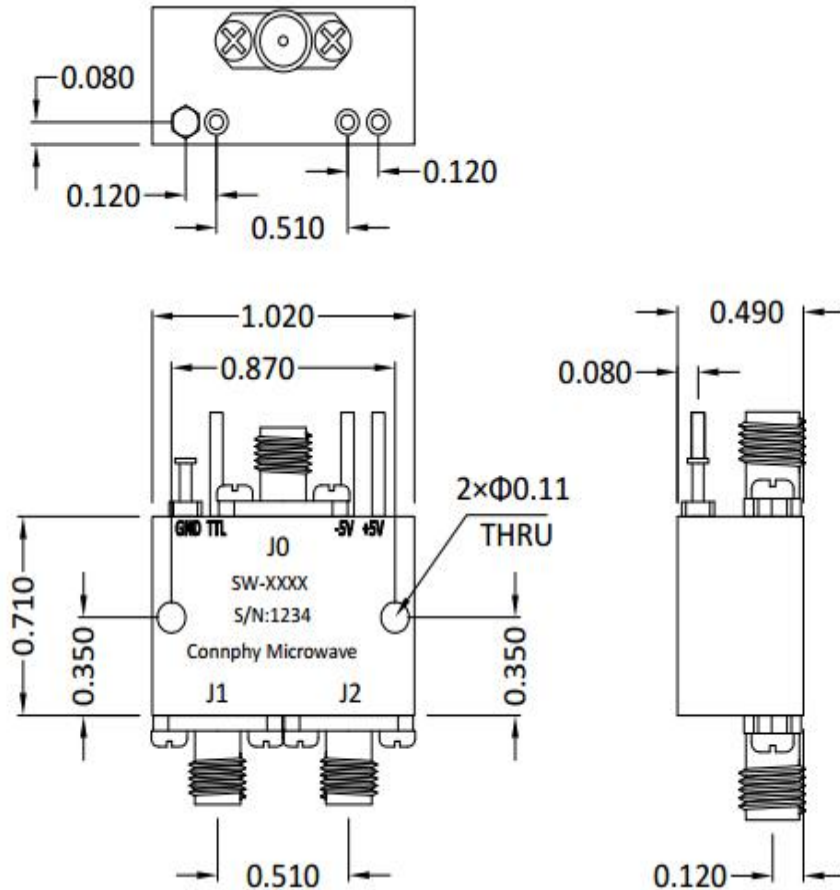


**SW-1G18G-2A-S** is a single pole, two throw, absorptive switch designed to operate over the 1 to 18 GHz frequency range. This model is designed to handle 30dBm typ. input power. The switch offers fast switching speeds of 100nsec max., low insertion loss of 1.8dB typ. and high isolation of 60dB min. The DC supplies are 80mA @ ±5 V.

### Mechanical Outline(Unit: Inch):



### Environmental Ratings:


Temperature: -25°C to +71 °C Operating  
 -65 °C to +100 °C Non-Operating

Vibration: MIL-STD-202F, Method 204D Cond. B

Altitude: MIL-STD-202F, Method 105C Cond. B

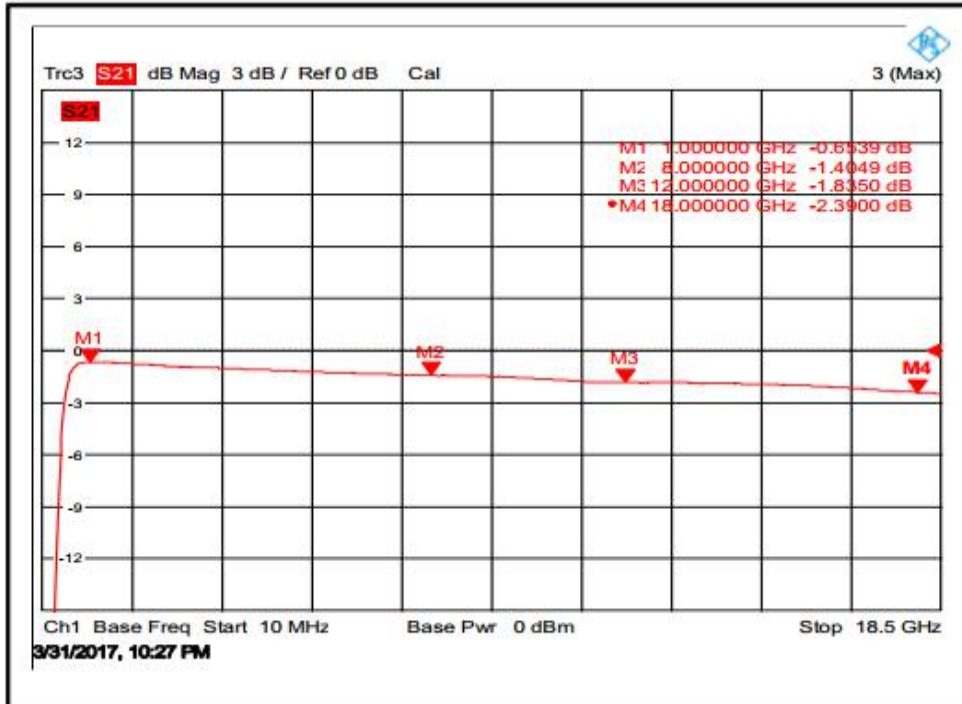
### Specifications:

Frequency: 1.0 to 18.0GHz  
 Insertion Loss: 1.8dB typ.  
 3.0dB max  
 Isolation: 80dB typ.  
 60dB min  
 Switching Speed: 100ns max  
 Power Handling: 30dBm max  
 VSWR: 2.0:1 max  
 Voltage/Current: 80mA @ ±5V typical  
 Control logic: TTL (0: J0-J2; 1: J0-J1)  
 Connectors: SMA Female  
 Type: Absorptive

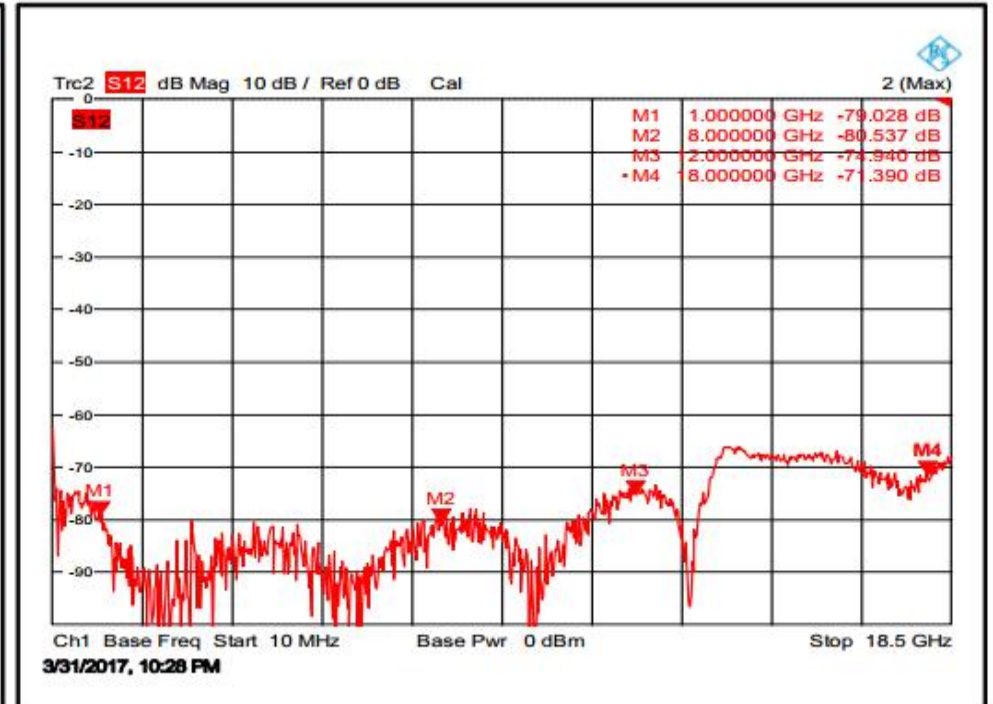
Pin Diode Switch SW-1G18G-2A-S			
DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 <a href="http://www.connphy.com">www.connphy.com</a> <a href="mailto:sales@connphy.com">sales@connphy.com</a>
CHECKRD:	DATE: 20/05/16	SHEET : 1 OF 3	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.

**SW-1G18G-2A-S** is a single pole, two throw, absorptive switch designed to operate over the 1 to 18 GHz frequency range. This model is designed to handle 30dBm typ. input power. The switch offers fast switching speeds of 100nsec max., low insertion loss of 1.8dB typ. and high isolation of 60dB min. The DC supplies are 80mA @ ±5 V.

**Typical Performance:**



**Insertion Loss**

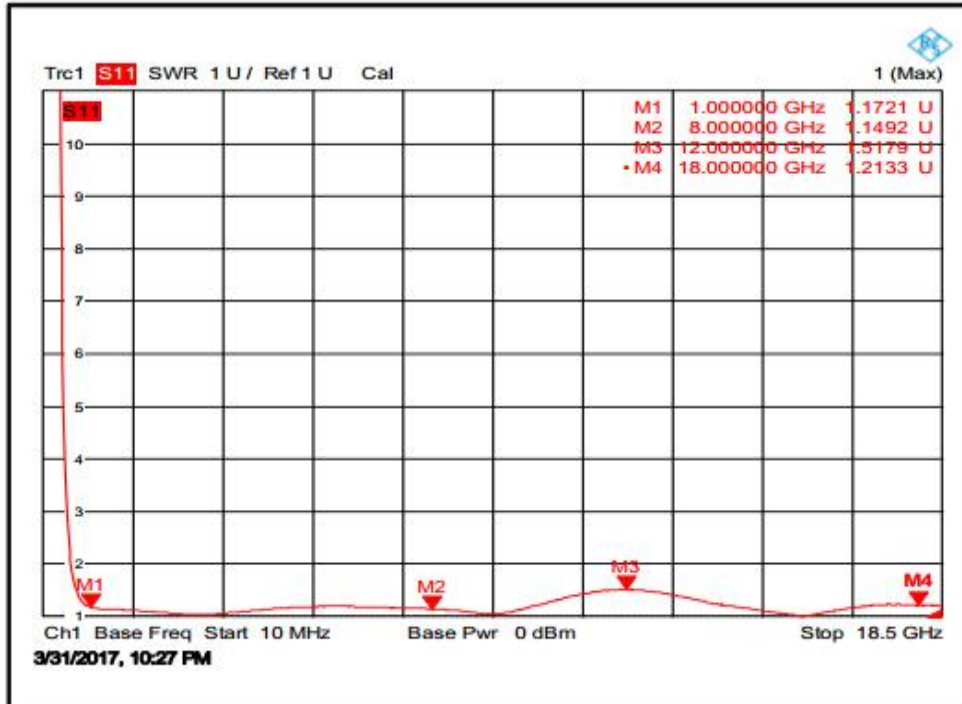


**Isolation**

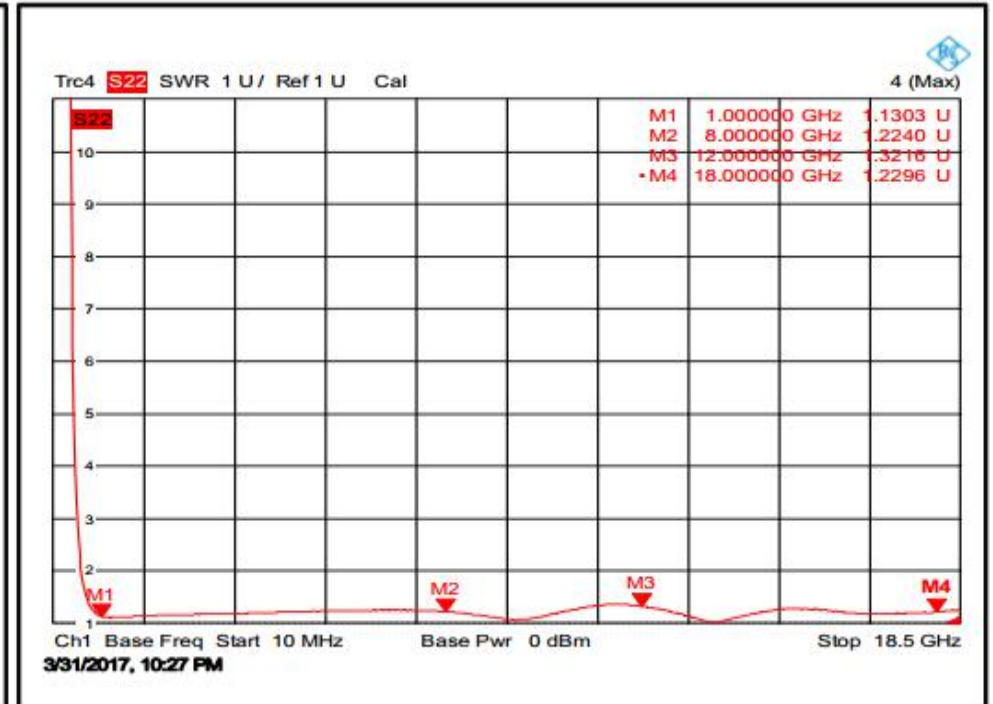
<b>Pin Diode Switch SW-1G18G-2A-S</b>			
DRAWN:	DWG NO.:	REV CODE: Rev.1.0	<b>CONNPHY</b> Microwave Inc. <a href="http://www.connphy.com">www.connphy.com</a> <a href="mailto:sales@connphy.com">sales@connphy.com</a>
CHECKRD:	DATE: 20/05/16	SHEET : 2 OF 3	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.

**SW-1G18G-2A-S** is a single pole, two throw, absorptive switch designed to operate over the 1 to 18 GHz frequency range. This model is designed to handle 30dBm typ. input power. The switch offers fast switching speeds of 100nsec max., low insertion loss of 1.8dB typ. and high isolation of 60dB min. The DC supplies are 80mA @ ±5 V.


**Typical Performance:**



**Input VSWR**



**Output VSWR**

Pin Diode Switch SW-1G18G-2A-S			
DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 <a href="http://www.connphy.com">www.connphy.com</a> <a href="mailto:sales@connphy.com">sales@connphy.com</a>
CHECKRD:	DATE: 20/05/16	SHEET : 3 OF 3	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.