

**CDPS-0.5G2G-360-8** is an 8-Bit Digital Phase Shifter that operates over the 0.5GHz to 2.0 GHz frequency range. This model offers 360° of phase shift with an LSB of 1.4° .

Features:

- 0.5-2.0 GHz
- 1.4° LSB, 360° Range

### Specifications:

Frequency Range:	0.5-2.0 GHz
Insertion Loss:	13 dB Max
Number of Bits:	8
Least Significant Bit(LSB):	1.4°
Phase Range:	360°
Phase accuracy:	+/-10° Max
VSWR(dB):	1.7:1 Max
Operating Power:	+27 dBm Max
Switching Time:	500 nsec Max
Control Logic:	TTL
Power supply:	+5Vdc @ 200 mA -5Vdc @ 200mA

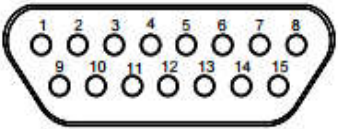
### Environmental Ratings:


Temperature:	-45°C to +85 °C Operating -45 °C to +85°C Non-Operating
Vibration:	MIL-STD-202F, Method 204D Cond. B
Altitude:	MIL-STD-202F, Method 105C Cond. B
Temperature Cycle:	MIL-STD-202F, Method 107D Cond. A

### Mechanical Specifications:

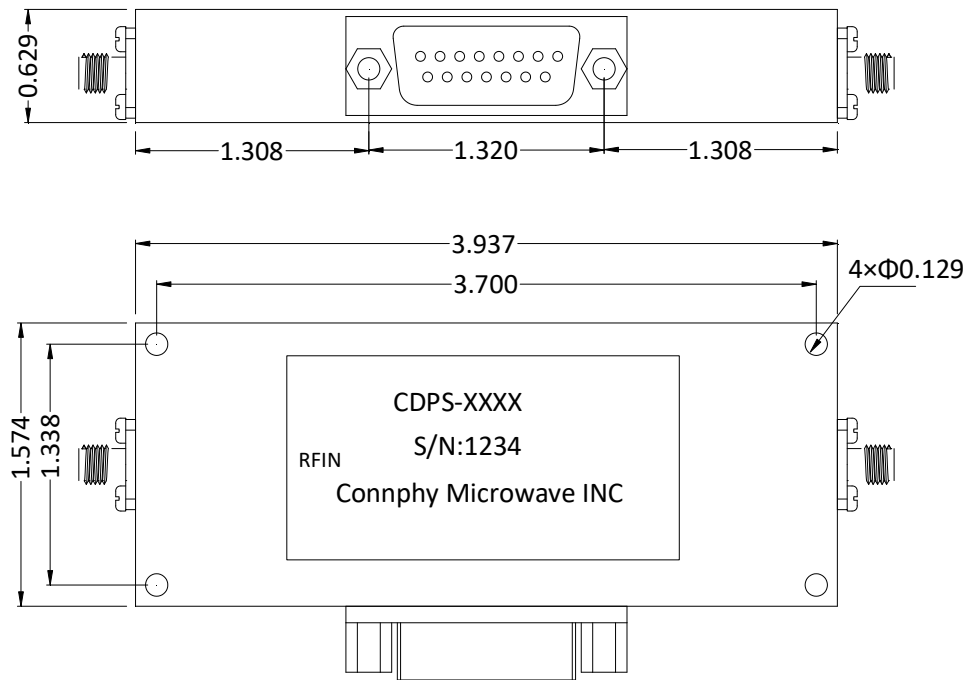
Parameter	Specification
Dimensions WxHxD	3.975X1.574X0.629 inches
RF Connectors In/Out	SMA-Female
DC Connector	D-SUB 15 Pin(Female)
Material	Aluminum

### DC Connector PIN Assignment:

Pin	Function	Pin Definition
1-8	Bit1-Bit8	
9	GND	
10-11	+5V	
12-13	-5V	
14-15	GND	

8-Bit Digital Phase Shifter CDPS-0.5G2G-360-8			
DRAWN:	DWG NO.:	REV CODE: Rev.1.0	
CHECKRD:	DATE: 08/07/15	SHEET : 1 OF 2	
ISSUED:	SIZE:	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.

## Mechanical Outline(Inches) :



## Truth Table :


Control Voltage TTL Input for 8 bits resolution								Phase Shift
Bit 1	Bit 2	Bit 3	Bit 4	Bit 5	Bit 6	Bit 7	Bit 8	RFin - RfOut
0	0	0	0	0	0	0	0	Reference
1	0	0	0	0	0	0	0	1.40°
0	1	0	0	0	0	0	0	2.81°
0	0	1	0	0	0	0	0	5.62°
0	0	0	1	0	0	0	0	11.25°
0	0	0	0	1	0	0	0	22.50°
0	0	0	0	0	1	0	0	45.00°
0	0	0	0	0	0	1	0	90.00°
0	0	0	0	0	0	0	1	180.00°
1	1	1	1	1	1	1	1	358.60°

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Altitude:	MIL-STD-202F, Method 105C Cond. B
Temperature Cycle:	MIL-STD-202F, Method 107D Cond. A

### 8-Bit Digital Phase Shifter

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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: 08/07/15	SHEET : 2 OF 2	
ISSUED:	SIZE:	SCALE : N / A	
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