

**CDPS-2G4G-360-8** is an 8-Bit Digital Phase Shifter that operates over the 2.0 GHz to 4.0 GHz frequency range. This model offers 360° of phase shift with an LSB of 1.4° .

**Features:**

- 2.0-4.0 GHz
- 1.4° LSB,360° Range
- TTL Driver

**Specifications:**

Frequency Range:	2.0-4.0 GHz
Insertion Loss:	8 dB Max
Number of Bits:	8
Least Significant Bit(LSB):	1.4°
Phase Range:	360°
Phase accuracy:	+/-4° Max
Amplitude balance:	+/-1.0 dB Max
VSWR:	1.7:1 Max
Operating Power:	+25 dBm Max
Switching Time:	500 nsec Max
Control Logic:	TTL
Power supply:	+5V dc @ 410 mA -5V dc @ 410mA

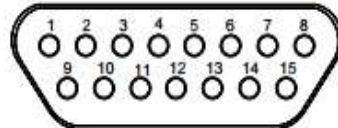
**Environmental Ratings:**


Temperature:	-45°C to +85 °C Operating -55 °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:**

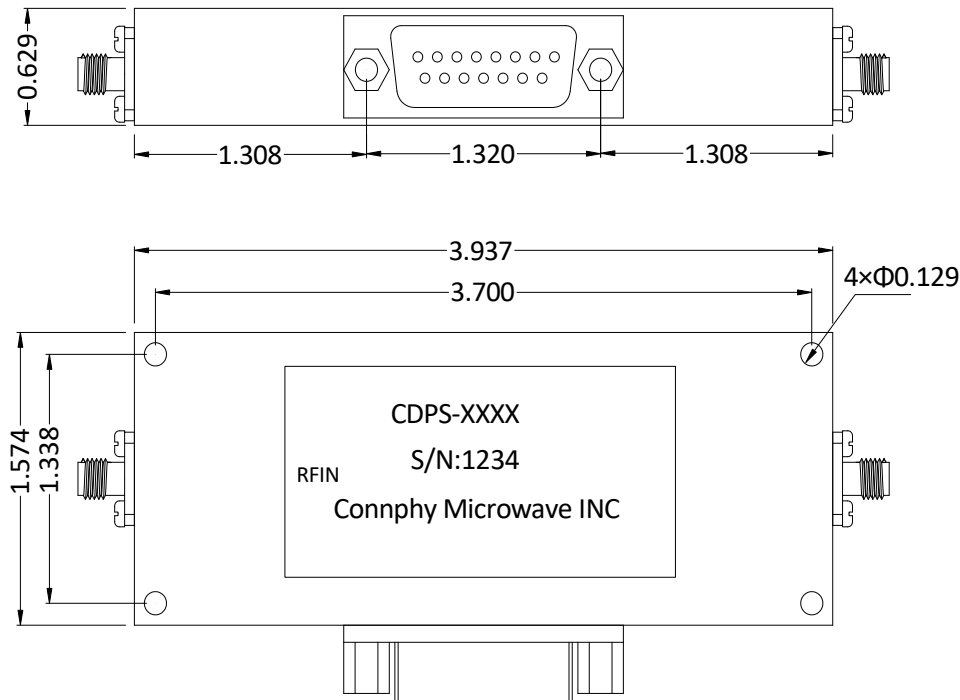
Parameter	Specification
Dimensions WxHxD	3.975X1.574X0.629 inches
RF Connectors In/Out	SMA-Female
DC Connector	D-SUB 15 Pin(Female)
Material	Aluminum

**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-2G4G-360-8			
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 : 1 OF 1	
ISSUED:	SIZE: A	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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CHECKRD:	DATE: 08/07/15	SHEET : 2 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
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