

CDPS-28G35G-360-5 is an 5-Bit Digital Phase Shifter that operates over the 28.0 GHz to 35.0 GHz frequency range. This model offers 360° of phase shift with an LSB of 11.25°.

**Features:**

- 28.0-35.0 GHz
- 11.25°LSB,360°Range
- TTL Driver

**Specifications:**

Frequency Range:	28.0-35.0 GHz
Insertion Loss:	6.0 dB Typ
Number of Bits:	5
Least Significant Bit(LSB):	11.25°
Phase Range:	360°
Amplitude Error:	+/- 0.5 dB Max
Phase Shift Error:	+/- 5.0°Typ
VSWR(dB):	2.0:1 Max
Power Handling:	+20 dBm Max
Switching Time:	100 nsec Typ
Control Logic:	TTL
Power supply:	+5 Vdc @35 mA Typ

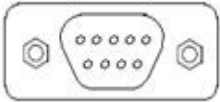
**Environmental Ratings:**


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:**

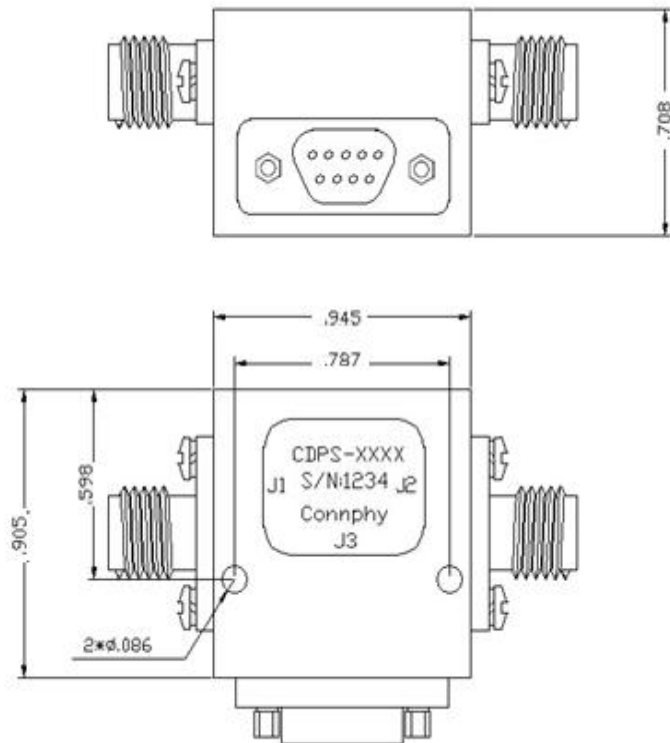
Parameter	Specification
Dimensions WxHxD	0.945X0.905X0.708 inches
RF Connectors In/Out	2.92mm-Female
DC Connector	MICRO-D9
Material	Aluminum

**DC Connector PIN Assignment:**

Pin	Function	Pin Definition
1-5	Bit1-Bit5	
6	+5V	
7-8	NC	
9	GND	

5-Bit Digital Phase Shifter CDPS-28G35G-360-5			
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 2	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.

## Mechanical Outline(Inches) :



## Truth Table :


TTL Input for 8 bits resolution					Phase Shift
Bit 1	Bit 2	Bit 3	Bit 4	Bit 5	RFin - RfOut
0	0	0	0	0	Reference
1	0	0	0	0	11.25°
0	1	0	0	0	22.50°
0	0	1	0	0	45.00°
0	0	0	1	0	90.00°
0	0	0	0	1	180.00°
0	0	0	0	1	348.75°

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### 5-Bit Digital Phase Shifter

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