

**CDAT-0.2G6G-63-6** is an digital controlled attenuator that operates over the 0.2 to 6.0GHz frequency range. This model utilizes 6 bits control, the corresponding attenuation is 0-63db.

Features:

- Wide Bandwidth
- Fast Response
- Low VSWR
- Miniature Size

**Specifications:**

Frequency Range:	0.2-6.0 GHz	
Attenuation Range:	63 dB Max	
Insertion Loss:	5.5 dB Max	
Attenuation Flatness:	+/-0.50 dB	1-7 dB
	+/-1.00 dB	8-11 dB
	+/-1.25 dB	12-63 dB
VSWR:	1.8:1 Max	
Control Bits:	6 bits	
Least Significant Bit (LSB):	1 dB	
Control Logic:	TTL	
Power Handling:	+27 dBm CW Max	
Power Supply:	+5 V @ 50 mA Typ	
Switching Time:	1us Max	

**Environmental Ratings:**


Temperature:	-45°C to +85 °C Operating
	-55 °C to +125 °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:**

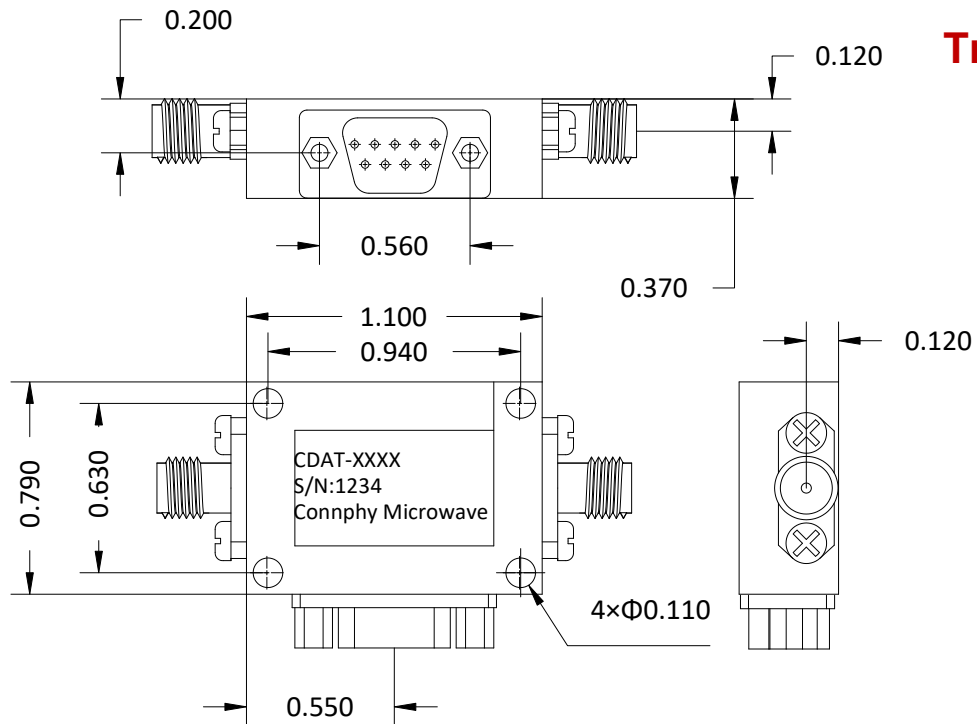
Parameter	Specification
Dimensions WxHxD	1.1X0.878X0.374 inches
RF Connectors In/Out	SMA-Female
DC Connector	Micro-D9
Material	Aluminum\GoldPainting

**DC Connector PIN Assignment:**

Pin	Function	Pin Definition
1	+5V	
2	GND	
3	NC	
4-9	Bit1-Bit6	

Digital Control PIN Attenuators CDAT-0.2G6G-63-6			
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:	SCALE : N / A	Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.

## Mechanical Outline (Inches) :



## Truth Table :


Control TTL Input for 6 bits resolution						Attenuation RF1-RF2
Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	
0	0	0	0	0	0	Reference
0	0	0	0	0	1	1.0 dB
0	0	0	0	1	0	2.0 dB
0	0	0	1	0	0	4.0 dB
0	0	1	0	0	0	8.0 dB
0	1	0	0	0	0	16.0 dB
1	0	0	0	0	0	32.0 dB
1	1	1	1	1	1	63.0 dB

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## Digital Control PIN Attenuators

### CDAT-0.2G6G-63-6

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