

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:	+20 dBm CW Max
Power Supply:	+5 V @ 50 mA Typ
Switching Time:	1us Max

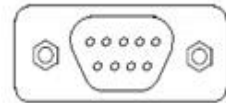
Environmental Ratings:

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	2.50X1.77X0.51 inches
RF Connectors In/Out	SMA-Female
DC Connector	D-SUB 9 (Female)
Material	Aluminum

DC Connector PIN Assignment:

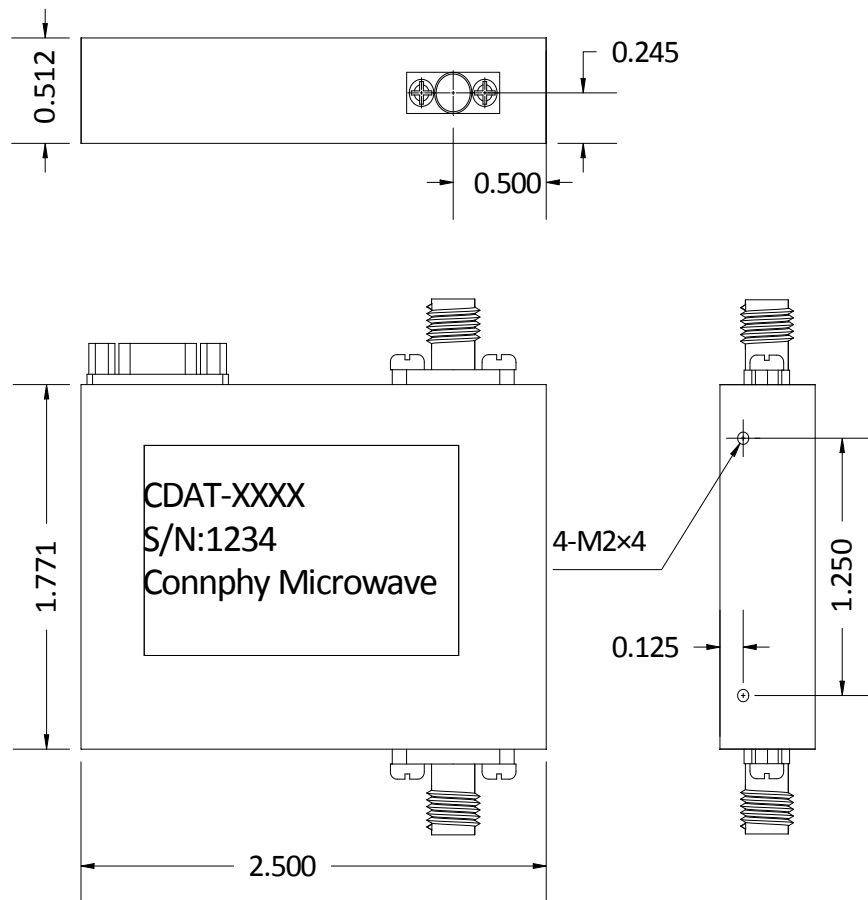
Pin	Function	Pin Definition
1 -6	Bit1-Bit6	
7	NC	
8	+5V	
9	GND	

Digital Control PIN Attenuators

CDAT-0.2G6G-63-6

DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 www.connphy.com sales@connphy.com
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) :



Environmental Ratings:

Temperature:	-45°C to +85 °C Operating -55 °C to +125 °C Non-Operating
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Temperature Cycle:	MIL-STD-202F, Method 107D Cond. A

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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ISSUED:	SIZE: A	SCALE : N / A	
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