

CDAT-1G18G-63-7 is an digital controlled attenuator that operates over the 1.0 to 18.0 GHz frequency range. This model utilizes 7 bits control, the corresponding attenuation is 0-63.5 dB.

Features:

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

Specifications:

Frequency Range:	1.0-18.0 GHz
Attenuation Range:	63.5 dB Max
Insertion Loss:	10.5 dB Max
Attenuation Flatness:	+/-1.5 dB Max
VSWR Input:	2.0:1 Max
VSWR Output :	2.0:1 Max
Control Bits:	7 bits
Least Significant Bit (LSB):	0.5 dB
Control Logic:	TTL
Power Handling:	+23 dBm CW Max
Power Supply:	+5 V @ 40 mA Typ
Switching Time:	500 ns Max

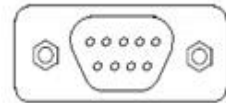
Environmental Ratings:

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	1.45X1.20X0.65 inches
RF Connectors In/Out	SMA-Female
DC Connector	MICRO-D9 (Female)
Material	Aluminum

DC Connector PIN Assignment:

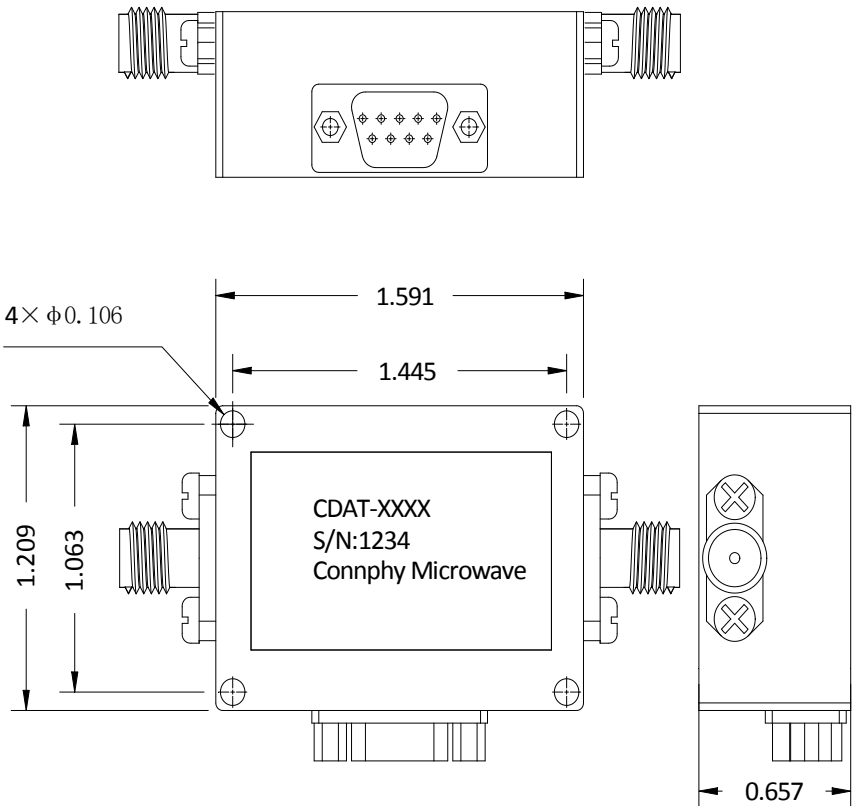
Pin	Function	Pin Definition
1	+5V	
2	GND	
3-9	Bit1-Bit7	

Digital Control PIN Attenuators

CDAT-1G18G-63-7

DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 CONNPHY Microwave Inc. 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
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

Truth Table :

Control TTL Input for 6 bits resolution							Attenuation
Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	
0	0	0	0	0	0	0	Reference
0	0	0	0	0	0	1	0.5 dB
0	0	0	0	0	1	0	1.0 dB
0	0	0	0	1	0	0	2.0 dB
0	0	0	1	0	0	0	4.0 dB
0	0	1	0	0	0	0	8.0 dB
0	1	0	0	0	0	0	16.0 dB
1	0	0	0	0	0	0	32.0 dB
1	1	1	1	1	1	1	63.5 dB

Digital Control PIN Attenuators			
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