

CDAT-8G12G-32-8 is an digital controlled attenuator that operates over the 8 GHz to 12.4 GHz frequency range. This model utilizes 8 bits control, the corresponding attenuation is 0-32 dB.

Features:

- Very wide band operation 8.0-12.4 GHz
- 0.125 dB LSB Steps to 32 dB
- Single Positive Control Line Per Bit

Specifications:

Frequency Range:	8.0-12.4 GHz
Attenuation Range:	32 dB
Insertion Loss:	5.0 dB Max
Attenuation Accuracy:	+/-0.5 dB 0-10 dB +/-0.8 dB 0-20 dB +/- 1.5 dB 0-32 dB
VSWR:	2.0:1 Max
Control Bits:	8 bits
Least Significant Bit (LSB):	0.125 dB
Control Logic:	TTL
Operating Power:	+0 dBm CW Max
Handling power:	+27 dbm CW Max
Power Supply:	+12 to +15 Volts @ +100 mA, -12 to -15 Volts @ -50 mA,
Switching Time:	600 ns Typ

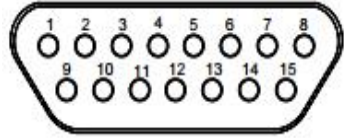
Environmental Ratings:

Temperature:	-25°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	5.00X3.00X0.75 inches
RF Connectors In/Out	SMA-Female
DC Connector	D-SUB 15 Pin (Male)
Material	Aluminum

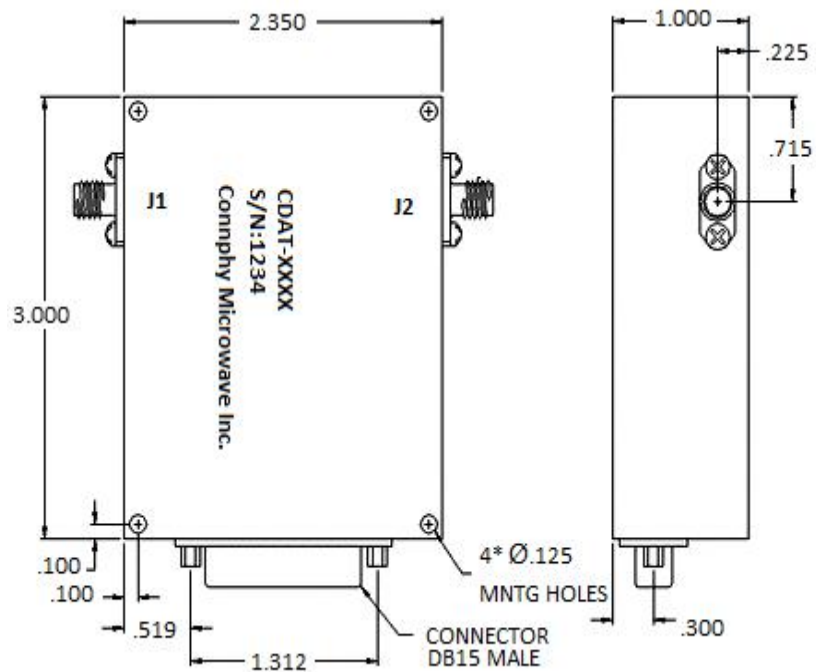
DC Connector PIN Assignment:

Pin	Function	Pin Definition
1-8	Bit1-Bit8	
9-12	NC	
13	+VDC	
14	-VDC	
15	GND	

Digital Control PIN Attenuators CDAT-8G12G-32-8

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):



Truth Table :


Control Voltage TTL Input for 8 bits resolution								Attenuation
Bit 8	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	
0	0	0	0	0	0	0	0	Reference
0	0	0	0	0	0	0	1	0.125 dB
0	0	0	0	0	0	1	0	0.25 dB
0	0	0	0	0	1	0	0	0.5 dB
0	0	0	0	1	0	0	0	1 dB
0	0	0	1	0	0	0	0	2 dB
0	0	1	0	0	0	0	0	4 dB
0	1	0	0	0	0	0	0	8 dB
1	0	0	0	0	0	0	0	16 dB
1	1	1	1	1	1	1	1	32 dB

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Digital Control PIN Attenuators

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ISSUED:	SIZE: A	SCALE : N / A	
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