

CDAT-6G18G-32-8 is an digital controlled attenuator that operates over the 6GHz to 18GHz frequency range. This model utilizes 8 bits control, the corresponding attenuation is 0-32 dB.

Features:

- Very wide band operation 6.0-18.0 GHz
- 0.125 dB LSB Steps to 32 dB
- Single Positive Control Line Per Bit

Specifications:

Frequency Range:	6.0-18.0 GHz
Attenuation Range:	32 dB
Insertion Loss:	6.0 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

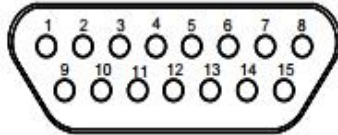
Environmental Ratings:

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	MICRO-D15(Female)
Material	Aluminum

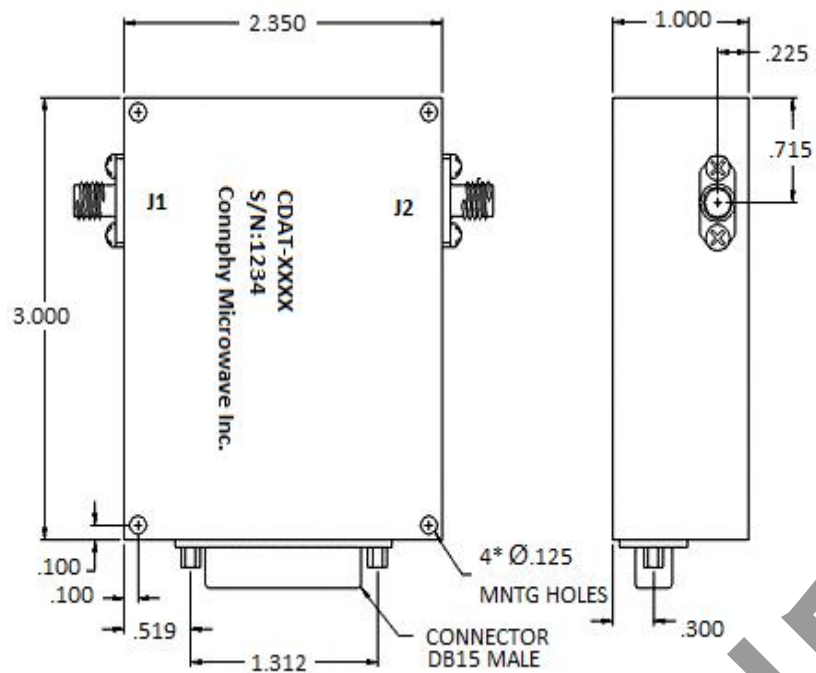
DC Connector PIN Assignment:

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

Digital Control PIN Attenuators CDAT-6G18G-32-8

DRAWN:	DWG NO.:	REV CODE: Rev.1.0	CONNPHY Microwave Inc. www.connphy.com sales@qiidao.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

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

Digital Control PIN Attenuators

CDAT-6G18G-32-8

DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 www.connphy.com sales@qiidao.com
CHECKRD:	DATE: 08/07/15	SHEET : 2 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.