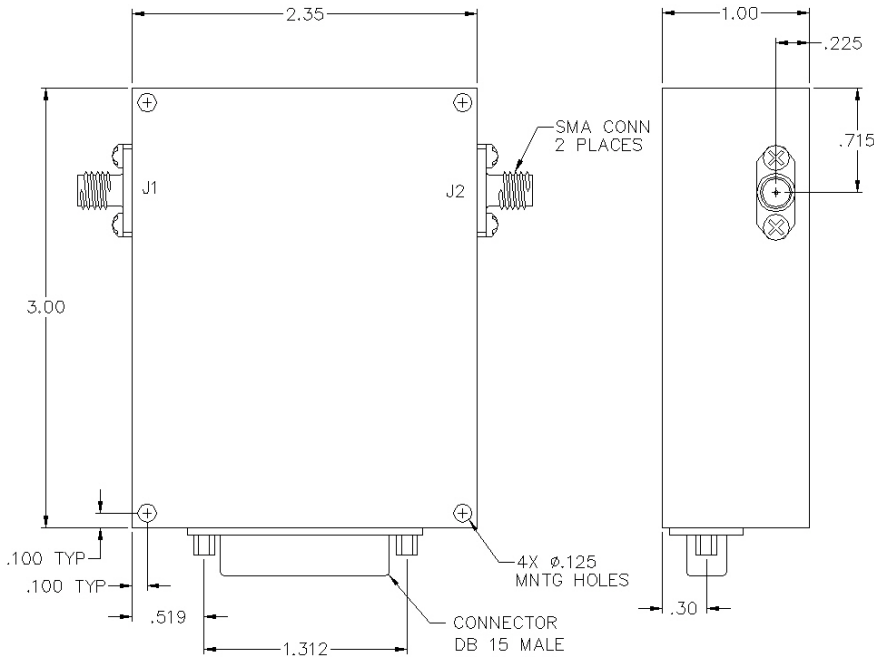


# DAT-20-482/1S

## DIGITAL STEP ATTENUATOR



## ATTENUATOR ACCURACY VS. FREQUENCY

Bandwidth (2:1)		Bandwidth (4:1)	
Flatness (dB)	Attenuation (dB)	Flatness (dB)	Attenuation (dB)
±0.5	0-10	±0.6	0-10
±0.8	0-20	±1.2	0-20
±1.2	0-30	±1.8	0-30
±1.5	0-40	±2.2	0-40
±2.2	0-64	±3.5	0-64

## Logic Table

State	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Att. 32 dB
-	0	0	0	0	0	0	0	0	0 dB
1	1	0	0	0	0	0	0	0	0.125 dB
2	0	1	0	0	0	0	0	0	0.25 dB
3	0	0	1	0	0	0	0	0	0.50 dB
4	0	0	0	1	0	0	0	0	1.0 dB
5	0	0	0	0	1	0	0	0	2.0 dB
6	0	0	0	0	0	1	0	0	4.0 dB
7	0	0	0	0	0	0	1	0	8.0 dB
8	0	0	0	0	0	0	0	1	16.0 dB

A combination of the above states will provide an attenuation equal to the sum of the selected states.

## SPECIFICATIONS

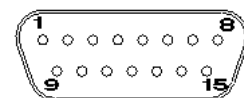
Name: DAT-20-482/1S  
 Frequency Range: 8-12.4 GHz  
 Attenuation Range: 32 dB  
 Number of Bits: 8  
 Insertion Loss: 5.5 dB max.  
 VSWR: 2.00:1 dB max.  
 Least Significant Bit: 0.125 LSB  
 Connector Type: SMA

Resolution of 8 bit is standard, up to 12 bits available.

Operating Power: ≤ 0 dBm  
 Power Handling: +27 dBm max.  
 Switching Time: 600 nsec typical.  
 Control Logic: TTL  
 Power supply: +12 to +15 Volts @ +100 mA, Typical  
 -12 to -15 Volts @ -50 mA, Typical  
 Operating Temperature: -25°C to +80°C

RF Connectors: SMA Female  
 Bi-directional: Either SMA connector can be used as input.

## Pin-Out



Pin 01 = Bit 1 (LSB)      Pin 09 = N/C  
 Pin 02 = Bit 2          Pin 10 = N/C  
 Pin 03 = Bit 3          Pin 11 = N/C  
 Pin 04 = Bit 4          Pin 12 = N/C  
 Pin 05 = Bit 5          Pin 13 = +12 to +15 Vdc  
 Pin 06 = Bit 6          Pin 14 = -12 to -15 Vdc  
 Pin 07 = Bit 7          Pin 15 = Ground  
 Pin 08 = Bit 8

This is a commercial off the shelf (COTS) product.  
 For an equivalent product that meets DFARS materials compliance, contact sales.  
 All specifications are subject to change without notice at any time. Rev: 190722



