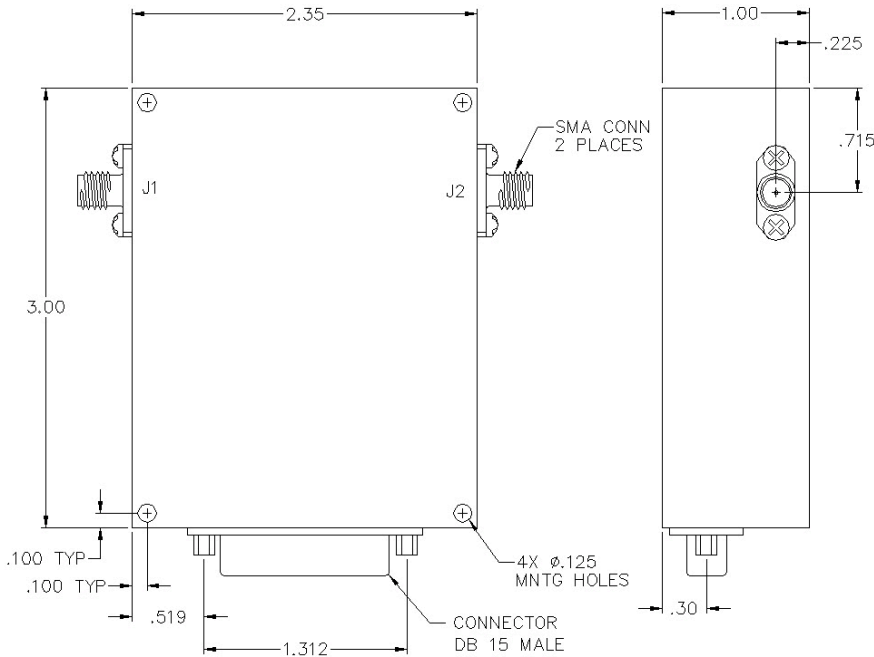


DAT-24-482/1S

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-24-482/1S
 Frequency Range: 6-18 GHz
 Attenuation Range: 32 dB
 Number of Bits: 8
 Insertion Loss: 6.0 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: 250614

