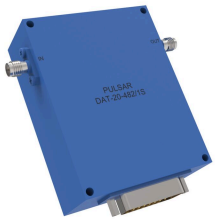
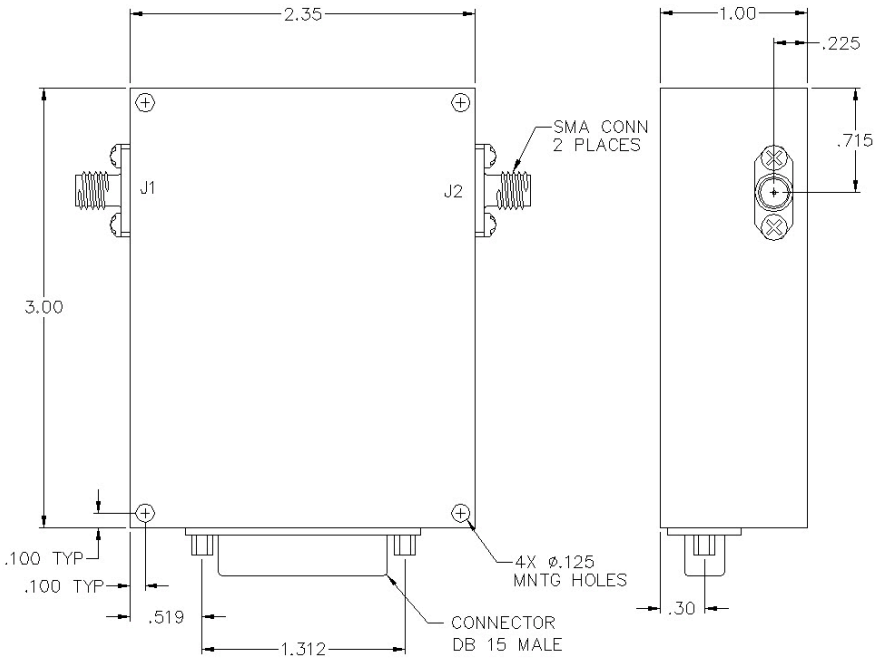
DAT-20-482/1S

DIGITAL STEP ATTENUATOR





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.

ATTENUATOR ACCURACY VS. FREQUENCY

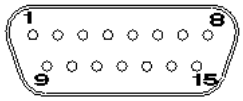
Bandwidth (2:1)		Bandwidth (4:1)	
Flatness (dB)	Attenuation (dB)	Flatness (dB)	Attenuation (dB)
±0.5	0-10	±0.6	0-10
±0.8	0-20	±1.2	0-20
±1.2	0-30	±1.8	0-30
±1.5	0-40	±2.2	0-40
±2.2	0-64	±3.5	0-64

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.

Pin-Out



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

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

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