SPECIFICATIONS

Frequency Range:	8.00 - 12.40 GHz
Insertion Loss:	5.5 dB Max
VSWR:	2.00:1 dB Max
Attenuation Range:	32 dB
Number of Bits:	8
Least Significant Bit (LSB):	0.125 dB
Operating Power:	<= 0 dBm
Power Handling:	+ 27 dBm Max
Switching Time:	600 nsec, Typ
Control Logic:	TTL
Power Supply:	+12 to +15 Volts @ +100 mA, Typical
	-12 to -15 Volts @ -50 mA, Typical
Operating Tempurature:	- 25°C to + 80°C
RF Connectors:	SMA Female

Resolution of 8 bit is standard; up to 12 bits available.
These attenuators are bi-directional.
Either J1 or J2 can be used as input.
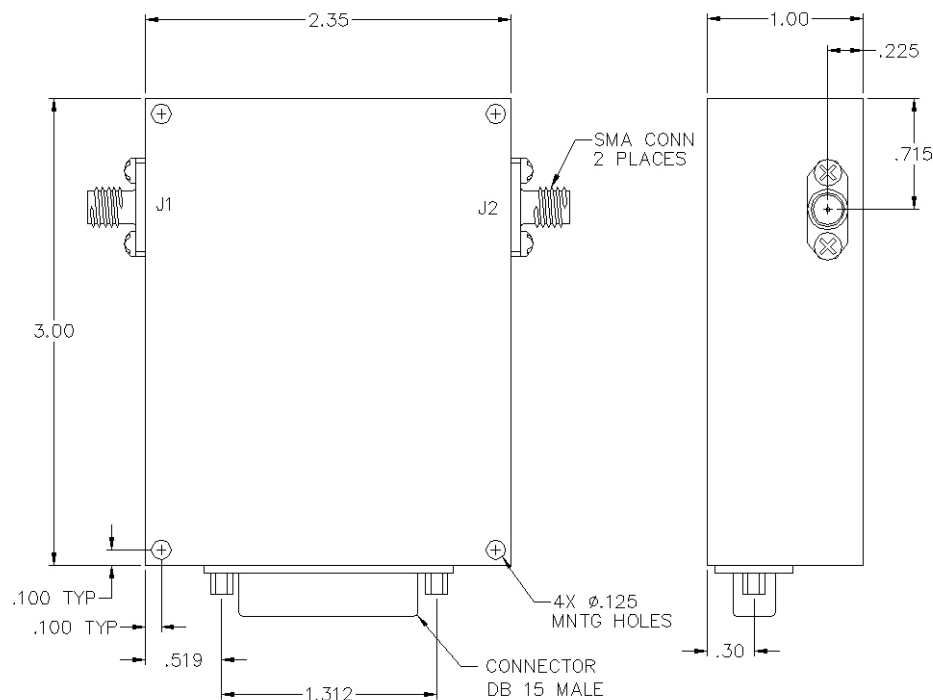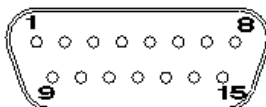J3: DC Connector (DC Power & Logic)

LOGIC TABLE

State	Bit 1 (Pin 1)	Bit 2 (Pin 2)	Bit 3 (Pin 3)	Bit 4 (Pin 4)	Bit 5 (Pin 5)	Bit 6 (Pin 6)	Bit 7 (Pin 7)	Bit 8 (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 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

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

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DESCRIPTION : Digital Controlled Attenuator

MODEL NO. : DAT-20-482/1S

DIMENSIONS ARE IN INCHES
DECIMAL TOLERANCE:
2 PLACE ± .02
3 PLACE ± .010

SIZE: A

CAGE CODE : 0HR85

REV CODE : 180403

SCALE : N / A

ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME

SHEET   1 OF 1