

SPECIFICATIONS

Frequency Range:	2.00 - 4.00 GHz
Insertion Loss:	6.5 dB Max
VSWR:	2.00:1 dB Max
Attenuation Range:	64 dB
Number of Bits:	8
Least Significant Bit (LSB):	0.25 dB
Operating Power:	+ 20 dBm/100 mw Max
Power Handling:	+ 30 dBm/1 watt Max
Switching Time:	600 nsec, Typ
Control Logic:	TTL
Power Supply:	± 5 Vdc @ ± 300 mA Typ
Operating Temperature:	- 25°C to + 80°C
RF Connectors:	SMA Female

These attenuators are bi-directional.
 Either J1 or J2 can be used as input.
 J3: DC Connector (DC Power & Logic)

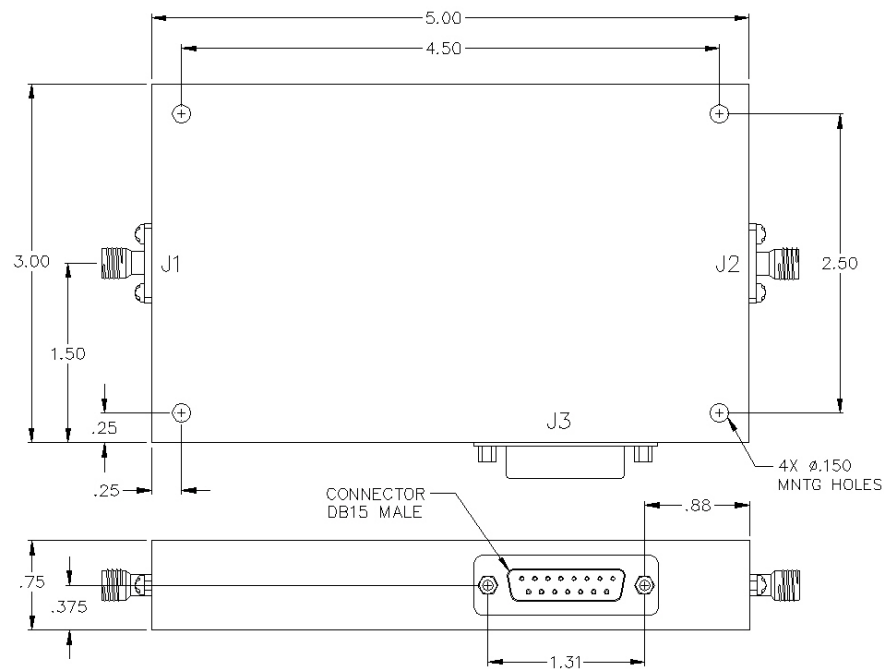
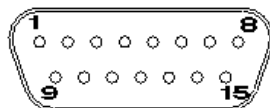
LOGIC TABLE

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. 64 dB
-	0	0	0	0	0	0	0	0	0 dB
1	1	0	0	0	0	0	0	0	0.25 dB
2	0	1	0	0	0	0	0	0	0.50 dB
3	0	0	1	0	0	0	0	0	1.0 dB
4	0	0	0	1	0	0	0	0	2.0 dB
5	0	0	0	0	1	0	0	0	4.0 dB
6	0	0	0	0	0	1	0	0	8.0 dB
7	0	0	0	0	0	0	1	0	16.0 dB
8	0	0	0	0	0	0	0	1	32.0 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 = +5 Vdc
Pin 06 = Bit 6	Pin 14 = -5 Vdc
Pin 07 = Bit 7	Pin 15 = Ground
Pin 08 = Bit 8	



Offset of Mean Attenuation (dB)		Flatness (dB)	
± 0.4	0 - 16	± 0.4	0 - 16
± 0.8	17 - 32	± 0.6	17 - 32
± 1.5	32 - 64	± 1.2	32 - 64

PULSAR

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DESCRIPTION :

Switched Bit Digital Controlled Attenuator

MODEL NO. :

DAT-18-480/1S

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