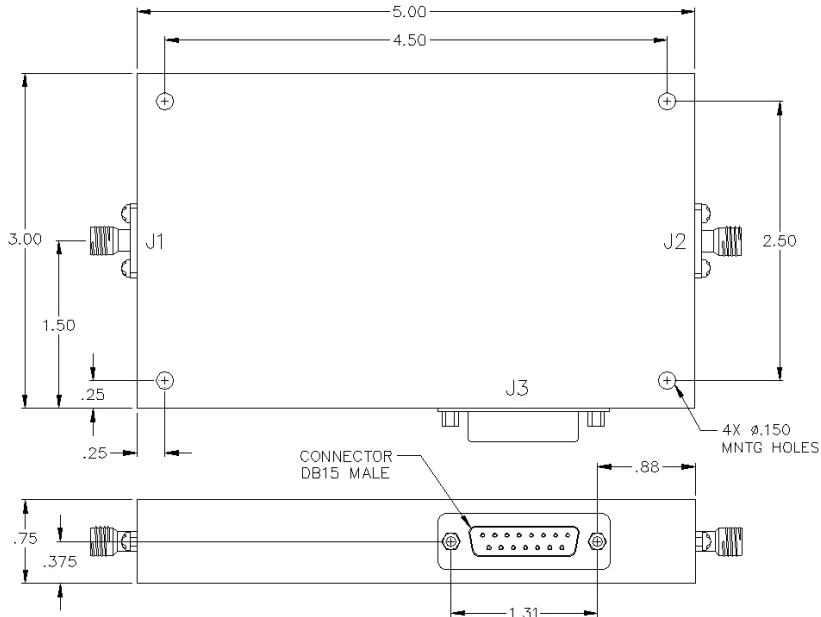


# DAT-16-480/1S

## DIGITAL STEP ATTENUATOR



Offset of Mean Attenuation (dB)		Flatness (dB)	
±0.5	0-16	±0.5	0-16
±0.8	17-32	±0.6	17-32
±1.5	32-64	±1.2	32-64

Logic Table

State	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	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

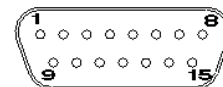
A combination of the above states will provide an attenuation equal to the sum of the selected states.

## SPECIFICATIONS

**Name:** DAT-16-480/1S  
**Frequency Range:** 0.5-1 GHz  
**Attenuation Range:** 64 dB  
**Number of Bits:** 8  
**Insertion Loss:** 3.7 dB max.  
**VSWR:** 2.00:1 dB max.  
**Least Significant Bit:** 0.250 LSB  
**Connector Type:** SMA  
**Operating Power:** +20 dBm/100 mw max.  
**Power Handling:** +30 dBm max.  
**Switching Time:** 600 nsec typical.  
**Control Logic:** TTL  
**Power supply:** ±5 Vdc @ ±300 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 = +5 Vdc  
 Pin 06 = Bit 6            Pin 14 = -5 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: 180403