

# 5 BIT DIGITAL ATTENUATOR *TAD2104*

**Available in:**  
 DP-5, 24 Pin DIP Package  
 and Connectorized Housings

## Features

- 10 - 2000 MHz; 31 dB Attenuation Range
- Fast Switching Speed: 15 ns Typical (GaAs)
- Integral TTL Driver
- OperatingTemp. -55 °C to + 85 °C
- Environmental Screening available

## Specifications

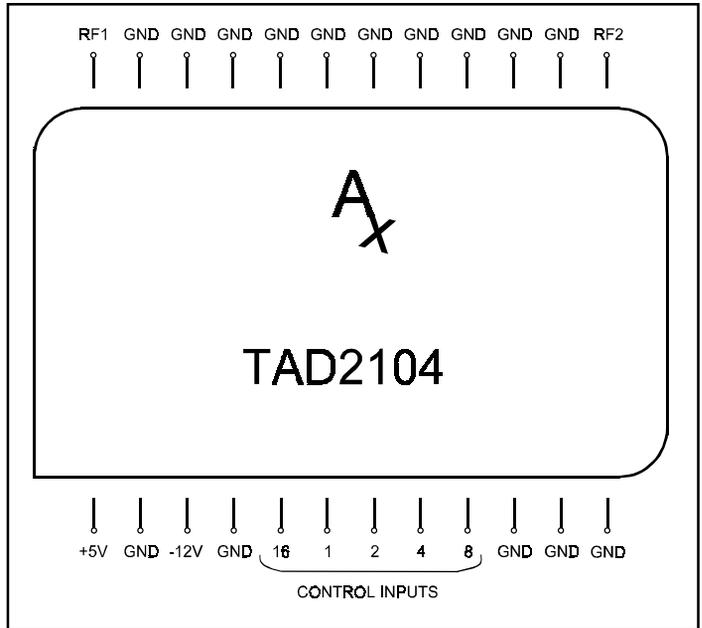
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 2000 MHz	10 - 2000 MHz
Insertion Loss (dB)	<6.5	8.5 Max.
Attenuation Range (dB)	1 - 31	1 - 31 Min.
Steps (dB)	1,2,4,8,16	1,2,4,8,16
Accuracy	±0.5 dB ±2%	±0.5 dB ±4% Max.
VSWR	1.5:1	1.75:1 Max.
Switching Speed (nsec)	<20	30 Max.
Transients (mV)	<25	35 Max.
DC Bias	VDC mA - 12 4.5	- 12 8.0 Max.
DC Bias	VDC mA +5 3.0	+5 5.0 Max.

Note: Care should always be taken to effectively ground the case of each unit.

## Maximum Ratings

Ambient Operating Temperature ..... -55°C to + 100 °C  
 Storage Temperature ..... -65°C to + 125 °C  
 Case Temperature ..... + 125 °C  
 DC Voltage ..... + 6.0, -16 Volts  
 Continuous RF Input Power ..... +30 dBm

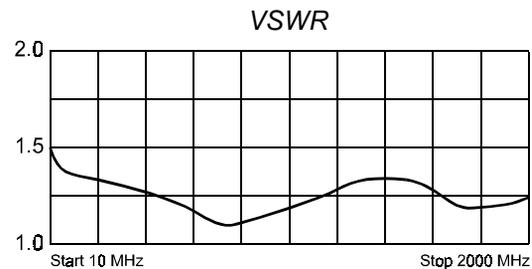
## Pin Layout



## Truth Table

Control Input 5 Line TTL	Attenuator Setting
1	Attenuate
0	Thru

## Typical Performance Data



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