

# 4 Bit Digital Attenuator

Fast Switch Speed: 20 ns (GaAs)

# Model TAD6006

50 to 500 MHz

## Features

- 50 - 500 MHz
- Fast Switching Speed: 20 ns Typical (GaAs)
- Integral TTL Driver
- Operating Tem. -55°C to +85 °C
- Screening to the tables of of MIL-STD-883 available

## Maximum Ratings

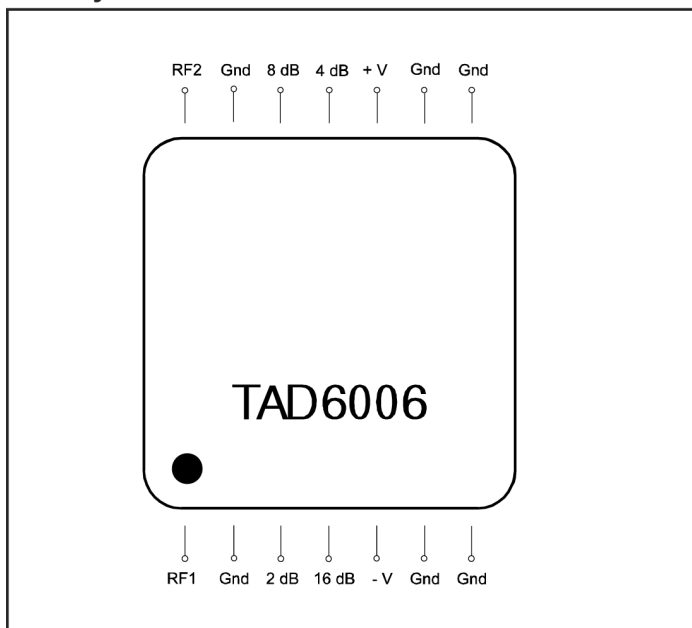
Ambient Operating Temperature .....	-55°C to + 100 °C
Storage Temperature .....	-65°C to + 125 °C
Case Temperature .....	+ 125 °C
DC Voltage .....	±6 Volts
Continuous RF Input Power .....	+30 dBm

## Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	50 - 500 MHz	50 - 500 MHz
Insertion Loss (dB)	2.2	3.0 Max.
Attenuation Range (dB)	2 - 30	2 -30
Steps (dB)	2,4,8,16	2,4,8,16
Accuracy	±0.15 dB ±1%	±0.25 dB Max. ±2%
VSWR	1.15:1	1.5:1 Max.
Switching Speed (nsec)	20	30 Max.
Transients (mV)	300	350 Max.
DC Bias VDC	+5	+5
Bias mA	3	5 Max.
DC Bias VDC	- 5	- 5
Bias mA	3	5 Max.

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

## Pin Layout



## Truth Table

Control Input 4 Line TTL	Attenuator Setting
1	Attenuate
0	Thru

## Packaging Options (see Appendix)

DP-11, 14 Pin DIP Package  
and Connectorized Housings

## Typical Performance Data

