

# 5 Bit Digital Attenuator

## Integral TTL Driver

# Model TAD6005

## 50 to 300 MHz

### Features

- Integral TTL Driver
- Fast switching speed: 20 ns Typical
- Operating Temp. -55°C to +85°C
- Screening to the tables 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 .....	+ 6.0, -13 Volts
Continuous RF Input Power .....	+30 dBm

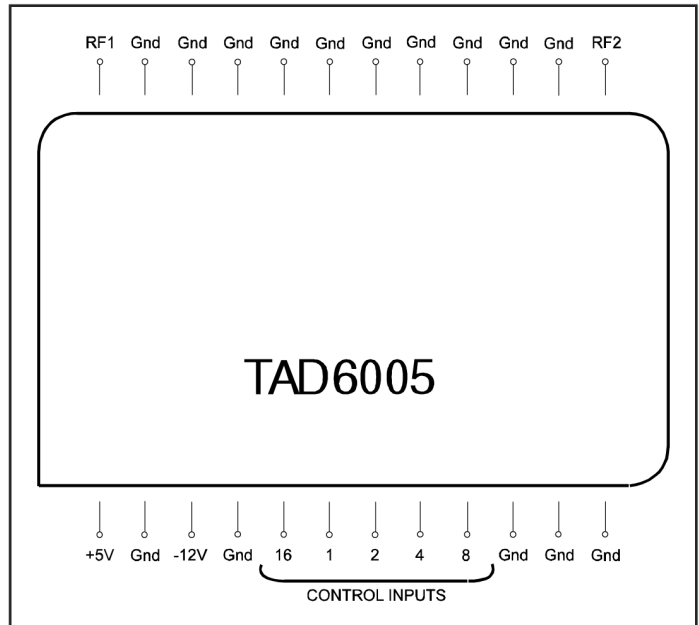
### Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	50 - 300 MHz	50 - 300 MHz
Insertion Loss (dB)	3.0	4.0 Max.
Attenuation Range (dB)	1 - 31	1 - 31
Steps (dB)	1,2,4,8,16	1,2,4,8,16
Accuracy	±0.15 dB ±1%	±0.25 dB Max. ±2%
VSWR	1.2:1	1.4:1 Max.
Switching Speed (nsec)	20	30 Max.
Transients (mV)	300	350 Max.
DC Bias	VDC mA	VDC mA
	+5 3	+6 5 Max.
DC Bias	VDC mA	VDC mA
	- 12 4	- 12 8 Max.

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

**Packaging Options (see Appendix)**  
 DP-5, 24 Pin DIP Package  
 and Connectorized Housings

### Pin Layout



### Truth Table

Control Input 5 Line TTL	Attenuator Setting
1	Attenuate
0	Thru

### Typical Performance Data

