

4 BIT DIGITAL ATTENUATOR

TAD6006

Available in:
DP-11, 14 Pin DIP Package
and Connectorized Housings

- 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

Specifications

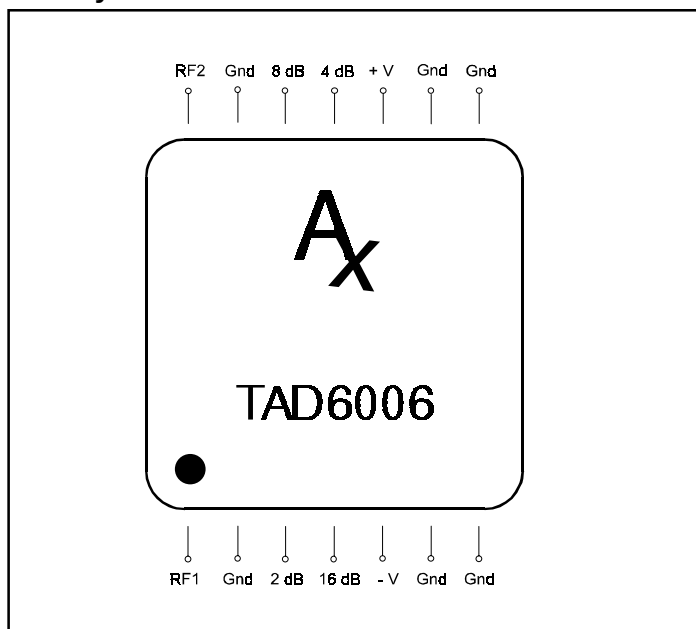
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	50 - 500 MHz	50 - 500 MHz
Insertion Loss (dB)	2.2	3.0 Max.
Attenuation Range (dB)	2 - 30	2 - 30
Steps (dB)	2,4,8,16	2,4,8,16
Accuracy	±0.15 dB ±1%	±0.25 dB Max. ±2%
VSWR	1.15:1	1.5:1 Max.
Switching Speed (nsec)	20	30 Max.
Transients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

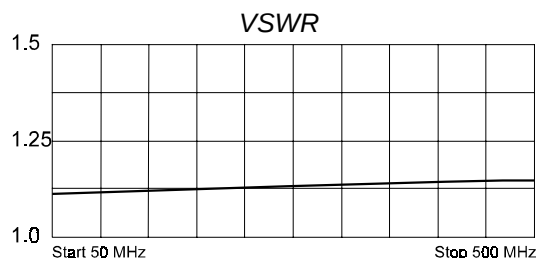
Pin Layout



Truth Table

Control Input 4 Line TTL	Attenuator Setting
1	Attenuate
0	Thru

Typical Performance Data



Amplifonix

2707 Black Lake Place, Philadelphia, PA 19154

TEL 215-464-4000 • • • • FAX 215-464-4001