4 Bit Digital Attenuator

Attentuation Range: 30 dB

Model TAD5006

10 to 150 MHz

Features

- 10 - 150 MHz
- 30dB Attenuation Range
- Integral TTL Driver
- Operating Temp.-55ºC to + 85ºC
- Screening to the tables ot MIL-STD-883 available

Maximum Ratings

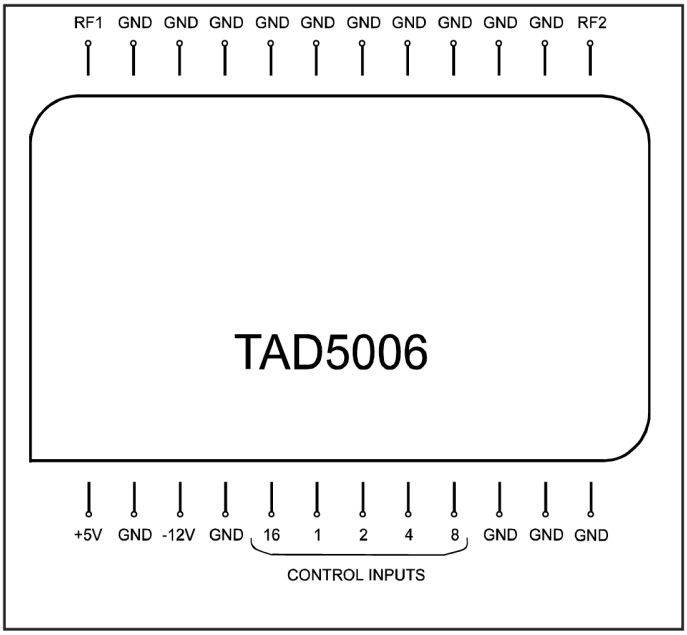
Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -65ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... +6 Volts
Continuous RF Input Power ..... +30 dBm

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency	10 - 150 MHz	10 - 150 MHz
Insertion Loss (dB)	2.5	3.3 Max.
Attenuation Range (dB)	2 - 30	2 - 30
Steps (dB)	2,4,8,16	2,4,8,16
Accuracy	±0.2 dB ±0.5%	±0.3 dB ±1% Max.
VSWR	1.4:1	1.65:1 Max.
Switching Speed (µsec)	3	10 Max.
Switching Translents (V)	0.5	1.0 Max.
DC Bias VDC mA	+5 22	+5 30 Max.

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

Pin Layout



Truth Table

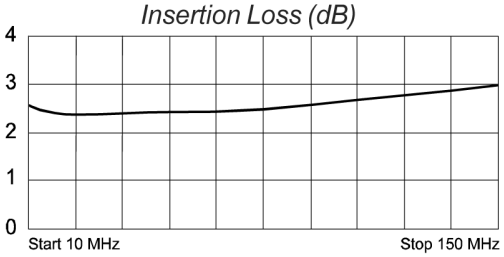
Control Input 4 Line TTL	Attenuator Setting
1	Attenuate
0	Thru

Packaging Options (see Appendix)

DP-5, 24 Pin DIP Package
and Connectorized Housings

Typical Performance Data

Insertion Loss (dB)



VSWR

