

4 BIT DIGITAL ATTENUATOR

TAD5006

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

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

Maximum Ratings

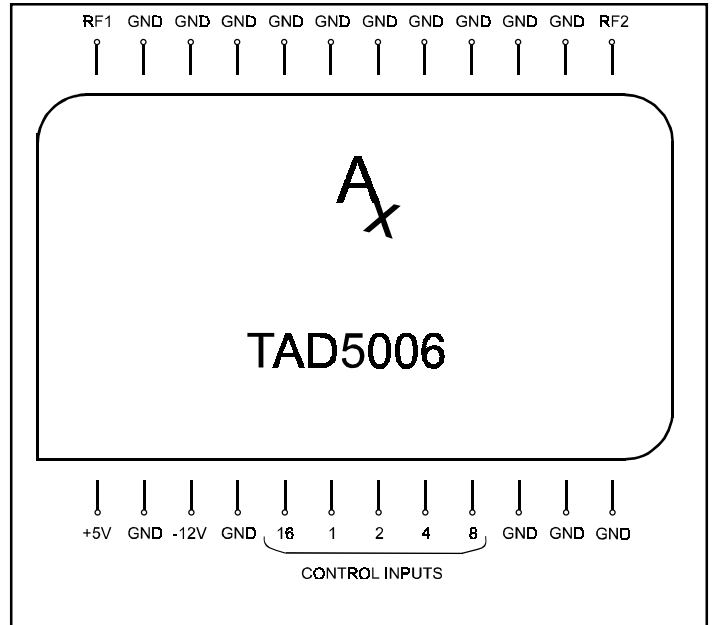
Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -65°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage +6 Volts
 Continuous RF Input Power +30 dBm

Specifications

| CHARACTERISTIC | TYPICAL Ta = 25 °C | MIN/MAX Ta = -55 °C to +85 °C |
|--------------------------|-----------------------|----------------------------------|
| 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 Max. ±1% |
| VSWR | 1.4:1 | 1.65:1 Max. |
| Switching Speed (µsec) | 3 | 10 Max. |
| Switching Transients (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

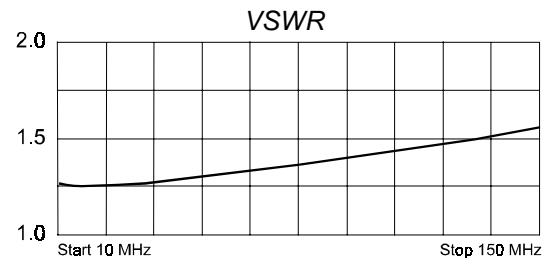
Pin Layout



Truth Table

| Control Input 4 Line TTL | Attenuator Setting |
|-----------------------------|--------------------|
| 1 | Attenuate |
| 0 | Thru |

Typical Performance Data



Amplifonix

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