

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

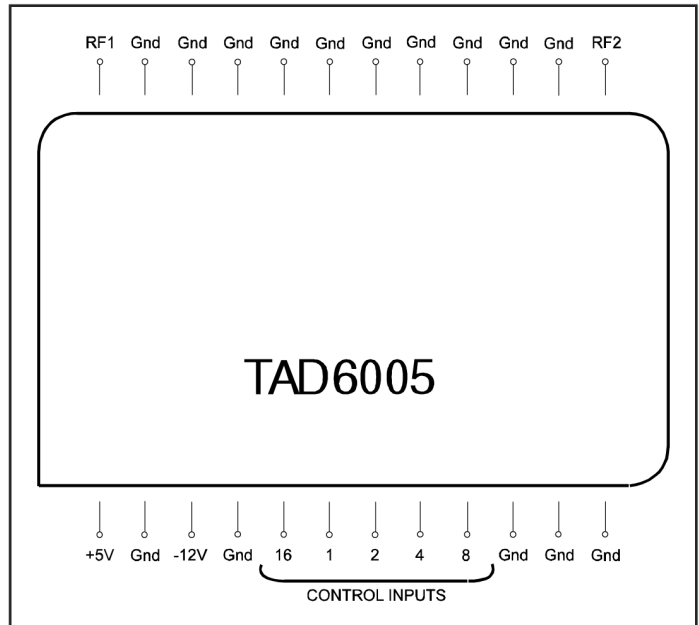
Specifications

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	+5	+6
Bias mA	3	5 Max.
DC Bias VDC	- 12	- 12
Bias mA	4	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

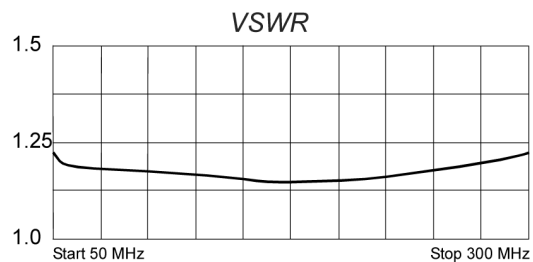
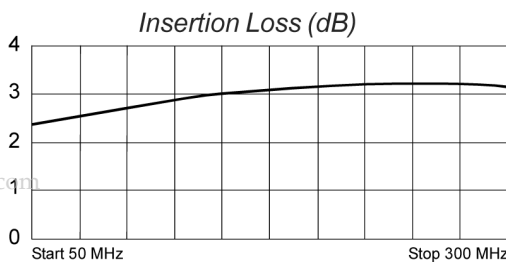
Pin Layout



Truth Table

Control Input 5 Line TTL	Attenuator Setting
1	Attenuate
0	Thru

Typical Performance Data



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