

5 Bit Digital Attenuator

Attenuation Range: 31 dB

Model TAD2104

10 to 2000 MHz

Features

- 10 - 2000 MHz; 31 dB Attenuation Range
- Fast Switching Speed: 15 ns Typical (GaAs)
- Integral TTL Driver
- Operating Temp. -55 °C to + 85 °C
- Environmental Screening available

Specifications

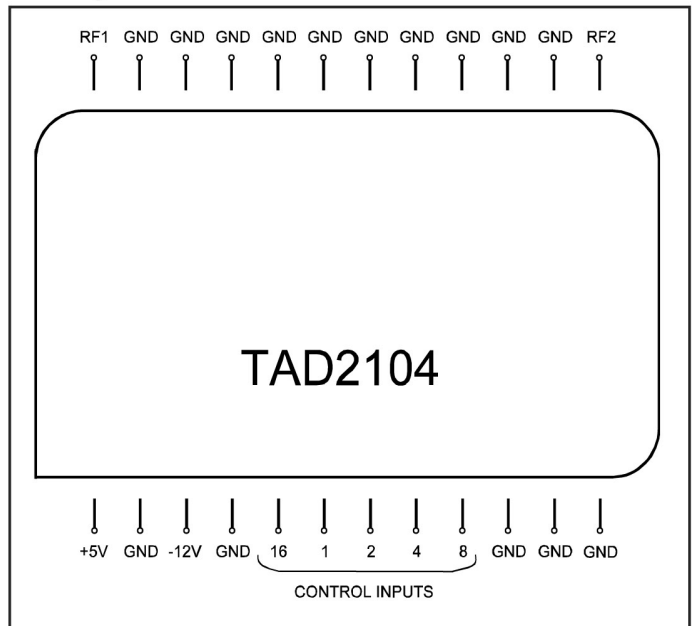
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 2000 MHz	10 - 2000 MHz
Insertion Loss (dB)	<6.5	8.5 Max.
Attenuation Range (dB)	1 - 31	1 - 31 Min.
Steps (dB)	1,2,4,8,16	1,2,4,8,16
Accuracy	±0.5 dB ±2%	±0.5 dB ±4% Max.
VSWR	1.5:1	1.75:1 Max.
Switching Speed (nsec)	<20	30 Max.
Transients (mV)	<25	35 Max.
DC Bias VDC	- 12	- 12
Bias mA	4.5	8.0 Max.
DC Bias VDC	+5	+5
Bias mA	3.0	5.0 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 + 6.0, -16 Volts
 Continuous RF Input Power +30 dBm

Pin Layout



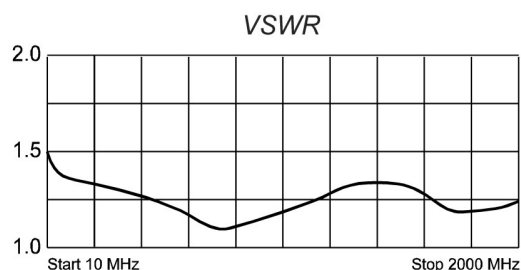
Truth Table

Control Input 5 Line TTL	Attenuator Setting
1	Attenuate
0	Thru

Packaging Options (see Appendix)

DP-5, 24 Pin DIP Package
 and Connectorized Housings

Typical Performance Data



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Attenuators