

7 Bit Digital Attenuator

Attenuation Range: 63.5 dB

Model TAD5010

50 to 250 MHz

Features

- 50 - 250 MHz
- 63.5 dB 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

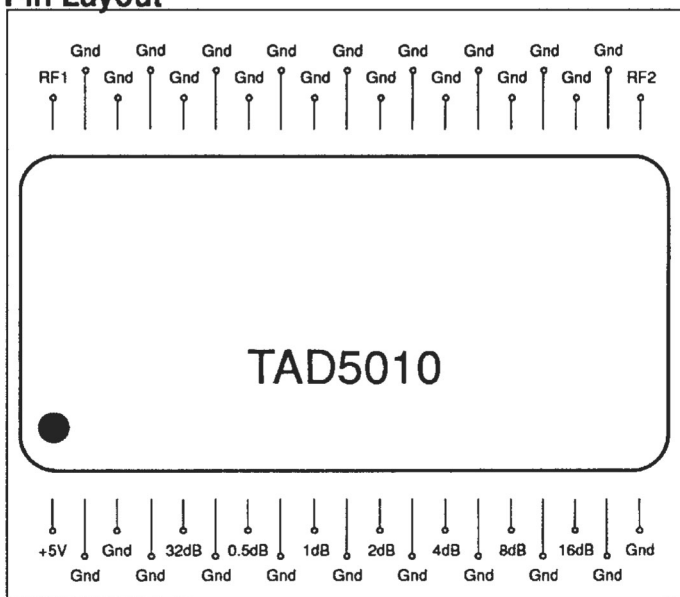
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = - 55 °C to + 85 °C
Frequency	50 - 250 MHz	50 - 250 MHz
Insertion Loss (dB)	5.0	7.5 Max.
Attenuation Range (dB)	0.5 - 63.5	0.5 - 63.5
Steps (dB)	0.5, 1, 2, 4, 8, 16, 32	0.5, 1, 2, 4, 8, 16, 32
Accuracy	±0.2 dB ±1.5%	±0.25 dB Max. ±2.5%
VSWR	1.25:1	1.5:1 Max.
Switching Speed (μsec)	6	10 Max.
Switching Transients (V)	0.8	1.0 Max.
DC Bias	Vdc mA	
	+5 25	+5 30 Max.

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

Packaging Options (see Appendix)

DP-8, 38 Pin Dip Package
 and Connectorized Housings

Pin Layout



Truth Table

Control Input 7 Line TTL	Attenuator Setting
1	Attenuate
0	Thru

Typical Performance Data

