

4 Bit Digital Attenuator

Fast Switching Speed: 20 ns (GaAs)

Model TAN6007

DC to 50 MHz

Features

- DC - 50 MHz
- Fast Switching Speed: 20 ns Typical (GaAs)
- Integral TTL Driver
- Operating Temp. -55 °C to +85 °C
- Screening to the tables of MIL-STD-883 available

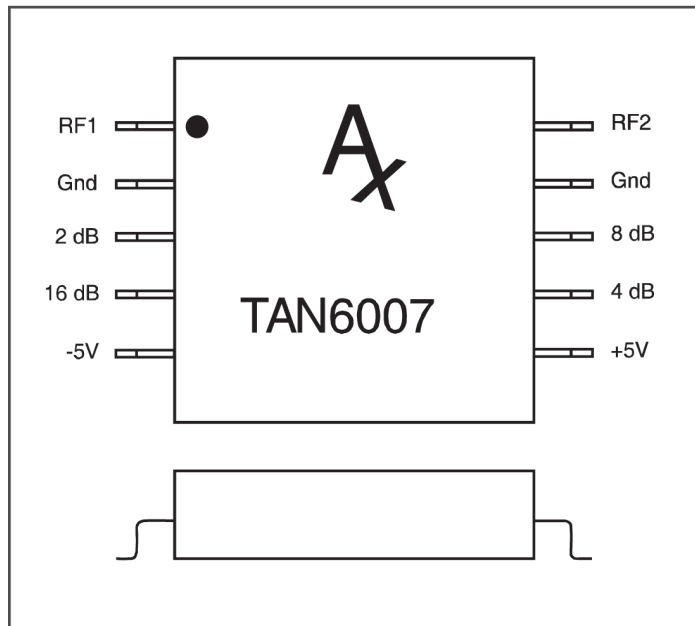
Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -65°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 6.0, -6 Volts
 Continuous RF Input Power +30 dBm

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	DC - 50 MHz	DC - 50 MHz
Insertion Loss (dB)	1.5	2.0 Max.
Attenuation Range (dB)	2 - 30	2 -30
Steps (dB)	2,4,8,16	2,4,8,16
Accuracy	±0.15 dB ±1%	±0.25 dB Max. ±2%
VSWR	1.3:1	1.4:1 Max.
Switching Speed (nsec)	20	30 Max.
Transients (mV)	300	350 Max.
DC Bias VDC	+5	+5
Bias mA	3	5 Max.
DC Bias VDC	- 5	- 5
Bias mA	3	5 Max.

Pin Layout



Truth Table

Control Input 4 Line TTL	Attenuator Setting
1	Attenuate
0	Thru

Packaging Options (see Appendix)

SG4, 10 Lead Gull Wing
 Package and Connectorized Housings

Typical Performance Data

