

4 BIT DIGITAL ATTENUATOR *TAN6007*

Available in:
SG4, 10 Lead Gull Wing
Package and Connectorized Housings

Features

- 300 kHz - 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

Specifications

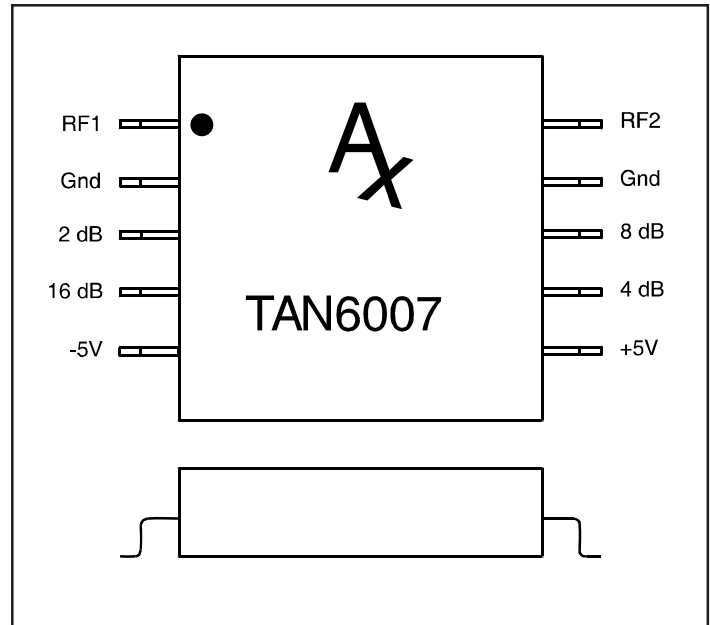
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C	
Frequency	300 kHz - 50 MHz	300 kHz - 50 MHz	
Insertion Loss	1.5 dB	2.0 dB Max.	
Attenuation Range	2 - 30 dB	2 - 30 dB	
Steps	2,4,8,16 dB	2,4,8,16 dB Max.	
Accuracy	+/-0.15 dB +/-1%	+/-0.25 dB Max. +/-2%	
VSWR	1.3:1	1.4:1 Max.	
Switching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

Revision 6-2-2012

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

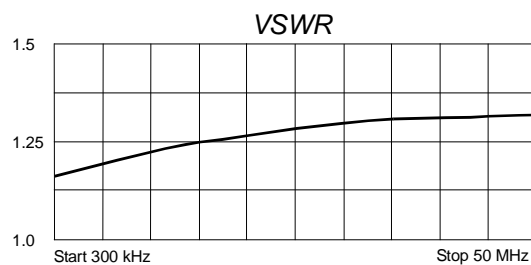
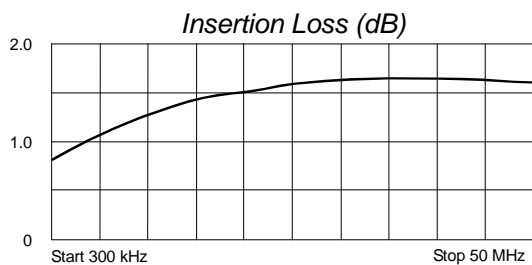
Pin Layout



Truth Table

Control Input 4 Line TTL	Attenuator Setting
1	Attenuate
0	Thru

Typical Performance Data



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