

# 4 Bit Digital Attenuator

Fast Switching Speed: 20 ns (GaAs)

# Model TAN6008

50 to 500 MHz

## Features

- 50 - 500 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

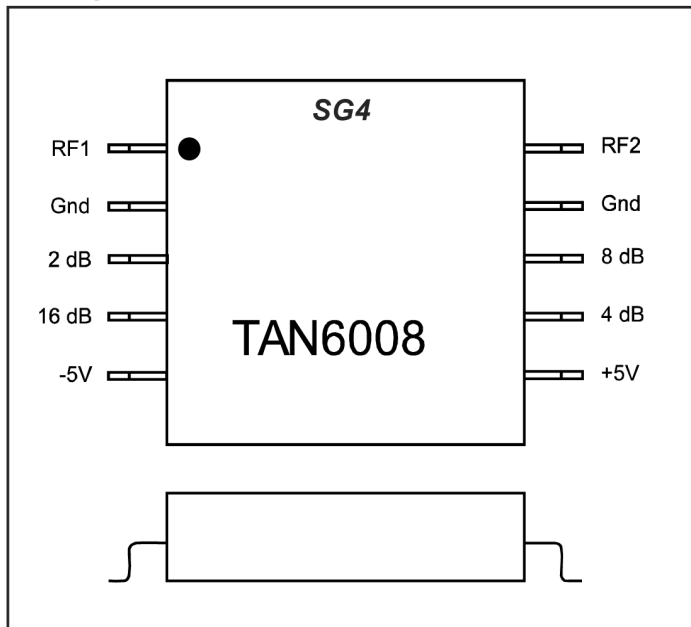
Ambient Operating Temperature ..... -55°C to + 100 °C  
 Storage Temperature ..... -65°C to + 125 °C  
 Case Temperature ..... + 125 °C  
 DC Voltage ..... +6.0, -6Volts  
 Continuous RF Input Power ..... +30 dBm

## Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	50 - 500 MHz	50 - 500 MHz
Insertion Loss (dB)	2.0	3.3 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 ±2% Max.
VSWR	1.3:1	1.5:1 Max.
Switching Speed (nsec)	20	30 Max.
Transients (mV)	300	350 Max.
DC Bias	VDC mA +5 3	+5 5 Max.
DC Bias	VDC mA - 5 3	- 5 5 Max.

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

## Pin Layout



## Truth Table

Control Input 4 Line TTL	Attenuator Setting
1	Attenuate
0	Thru

## Packaging Options (see Appendix)

Gullwing (SG4) .625"  
 and Connectorized Housings (H5)

## Typical Performance Data

