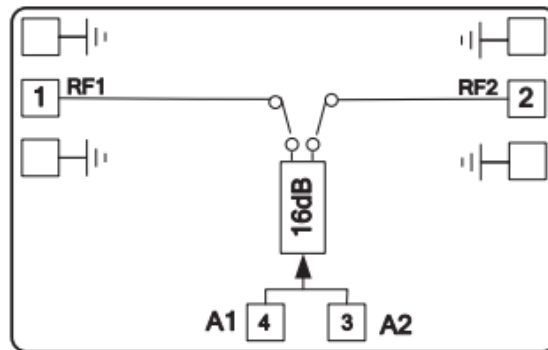


Features

- Attenuation Range: 16dB
- Attenuation Accuracy: $\pm 0.2\text{dB}$
- Insertion Loss : 1.8dB
- Attenuation Additional Phase Shift: $\pm 4^\circ$
- Impedance: 50 Ω
- Die Size: 1.0 x 1.0 x 0.1 mm

Typical Applications

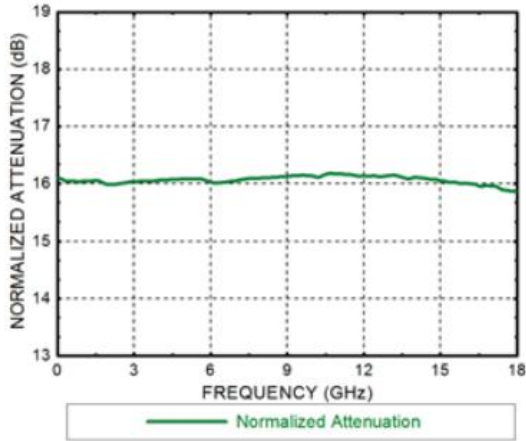
- Test Instrumentation
- Microwave Radio & VSAT
- Military & Space
- Telecom Infrastructure
- Fiber Optics

Functional Block Diagram

Electrical Specifications
TA = +25°C, Vctl = 0/-5V

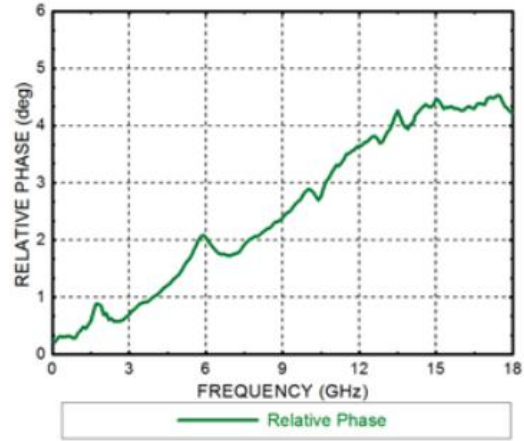
Parameters	Min.	Typ.	Max.	Units
Frequency	0.5-18			GHz
Insertion Loss		1.8		dB
Attenuation Range		16		dB
Return Loss		20		dB
Input 1dB Compression (P1dB)		24		dBm
Switching Speed		30		ns



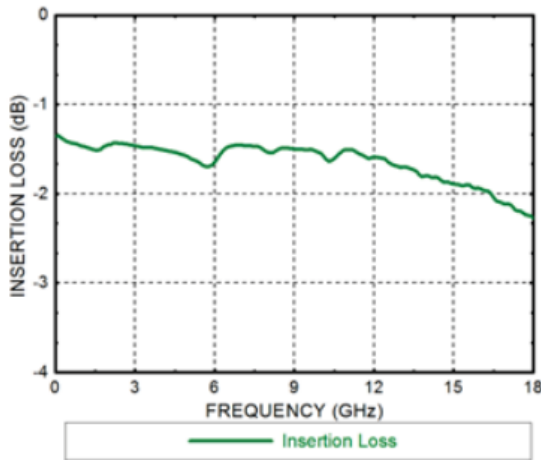
Attenuation



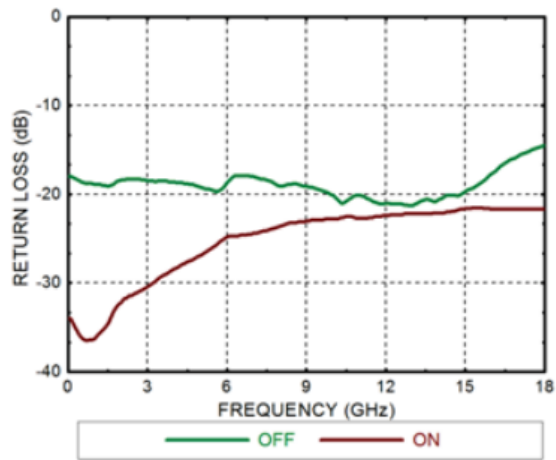
Relative Phase vs. Frequency



Insertion Loss



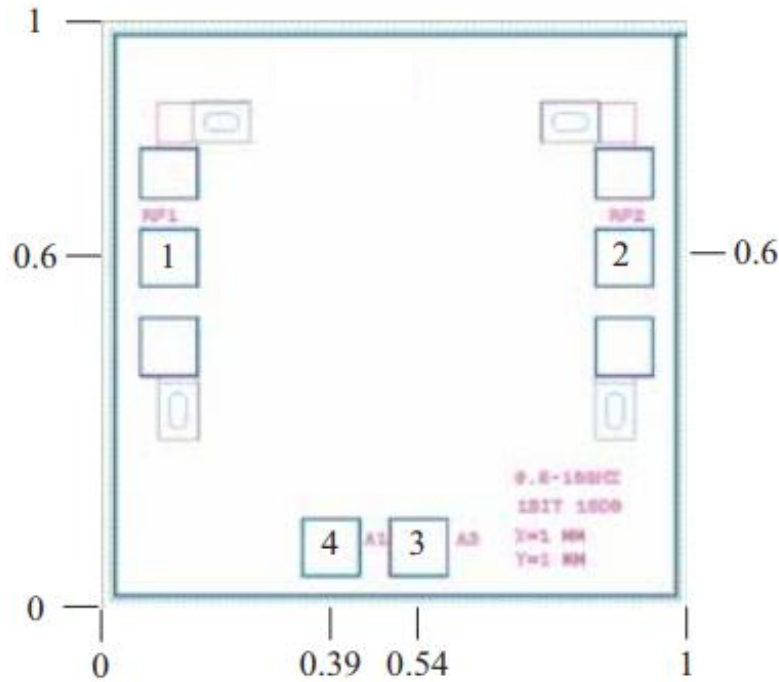
Return Loss





Outline Drawing:

All Dimensions in mm

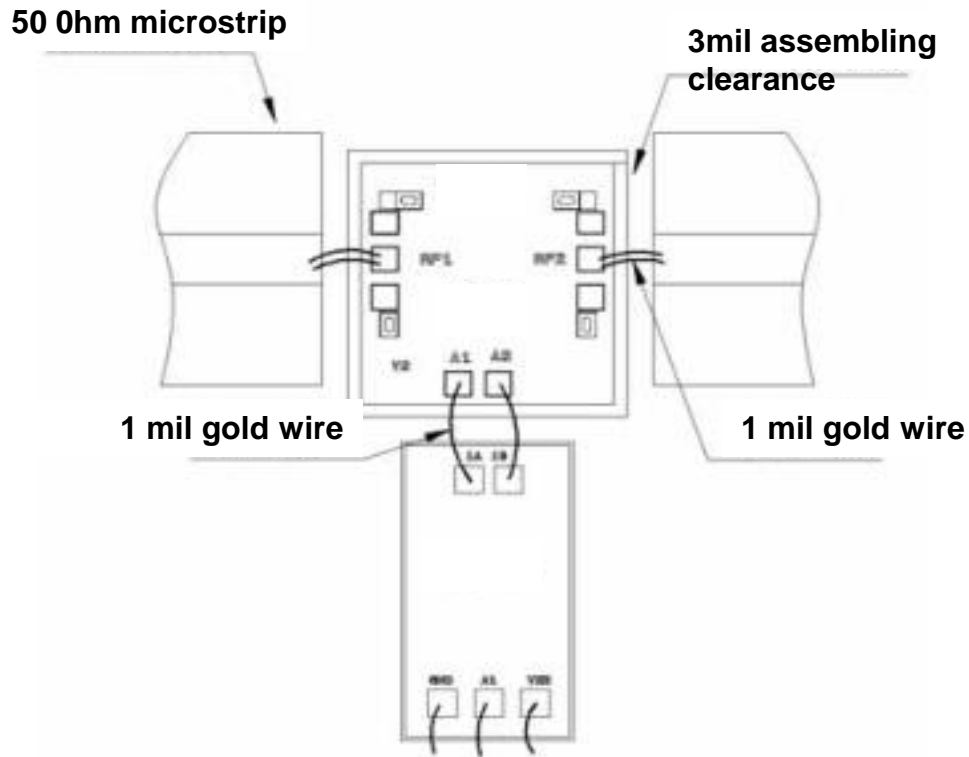


Pad Description

PAD	Function	Description
1	RF1	This pad is RF port and matched to 50Ω Impedance.
2	RF2	This pad is RF port and matched to 50Ω Impedance.
3, 4	A2, A1	A2 = -5 v, A1= 0 v, pass-through; A2=0V, A1= -5v, decaying 16dB.
Die Bottom	GND	Die bottom must be connected to RF/DC ground.



Assembly Drawing



Notes:

1. Die thickness: 100um
2. Typical bond pad is 100*100 μm^2
3. Bond pad metalization: Gold
4. Backside metalization: Gold
5. Backside of the die (GND)
6. No connection required for unlabeled bond pads

Maximum Ratings:

1. RF input power: +24dBm
2. Storage temperature: -65°C to +175°C
3. Operating temperature: -55°C to +85°C