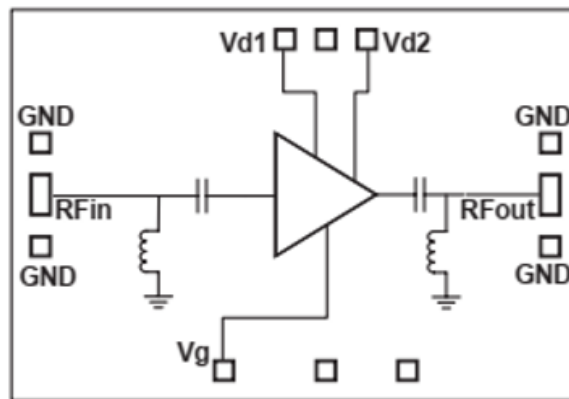


Features

- Frequency: 50-75GHz
- Gain: 18dB
- Noise Figure: 3.5dB
- P1dB: +10dBm
- Power supply: +2V@73mA
- I/O 50 Ohm matching: VSWR < 2

Typical Applications

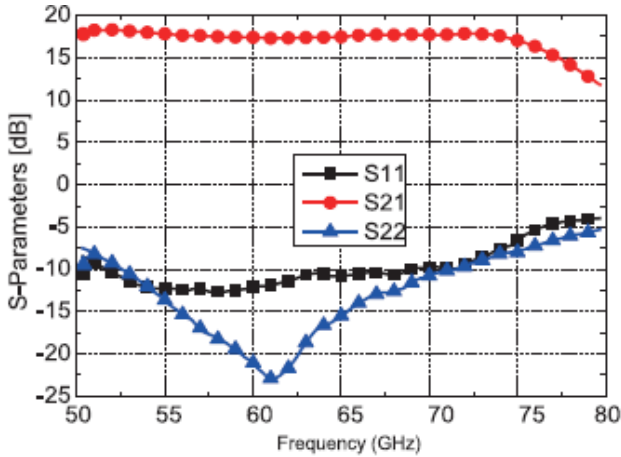
- Test Instrumentation
- Microwave Radio & VSAT
- Military & Space
- Telecom Infrastructure
- Fiber Optics

Functional Block Diagram

Electrical Specifications

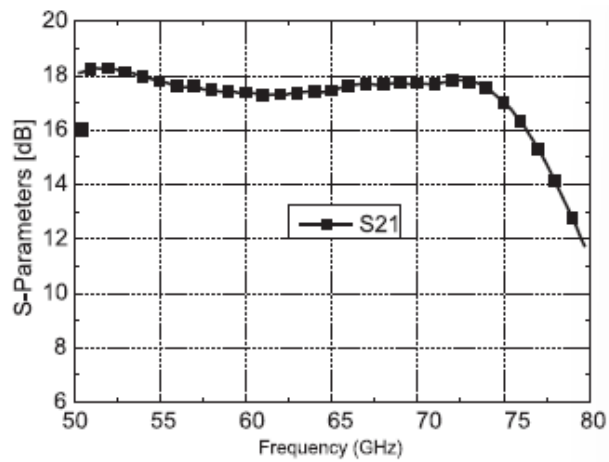
TA = +25°C, Vd1 = Vd2 = +2V, Vg = -0.5V (On-wafer Measurement Results)

Parameters	Min.	Typ.	Max.	Units
Frequency	50-75			GHz
Gain	17	18		dB
Noise Figure		3.5		dB
Output 1dB Compression (P1dB)		+10		dBm
Input Return Loss	7	10		dB
Output Return Loss	8	13		dB
Operating Current		73		mA

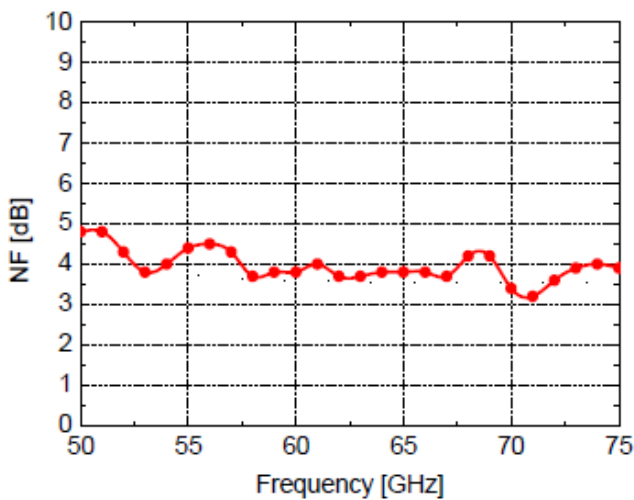
Frequency Response



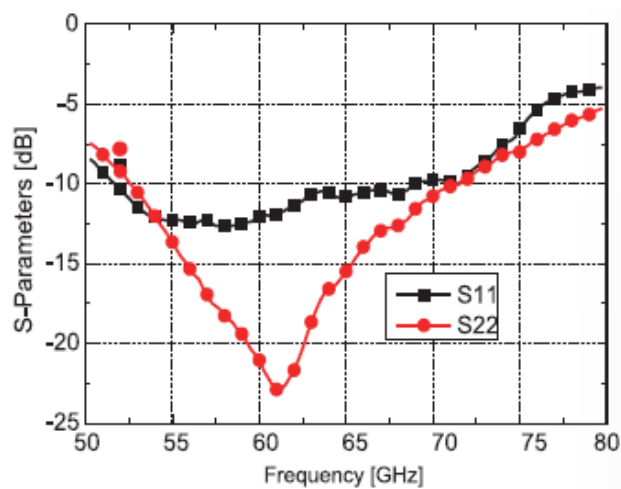
Gain



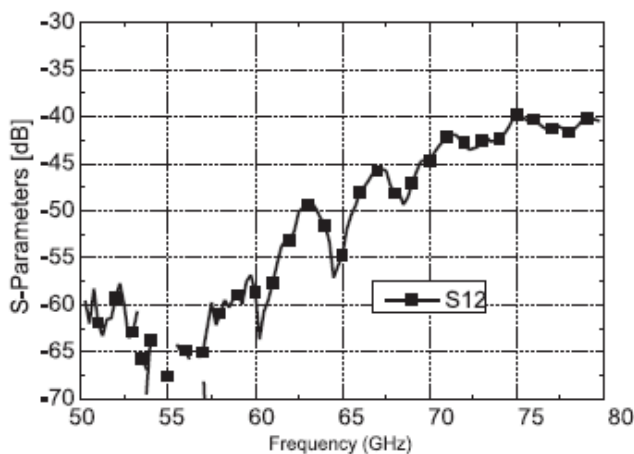
Noise Figure



I/O Return Loss



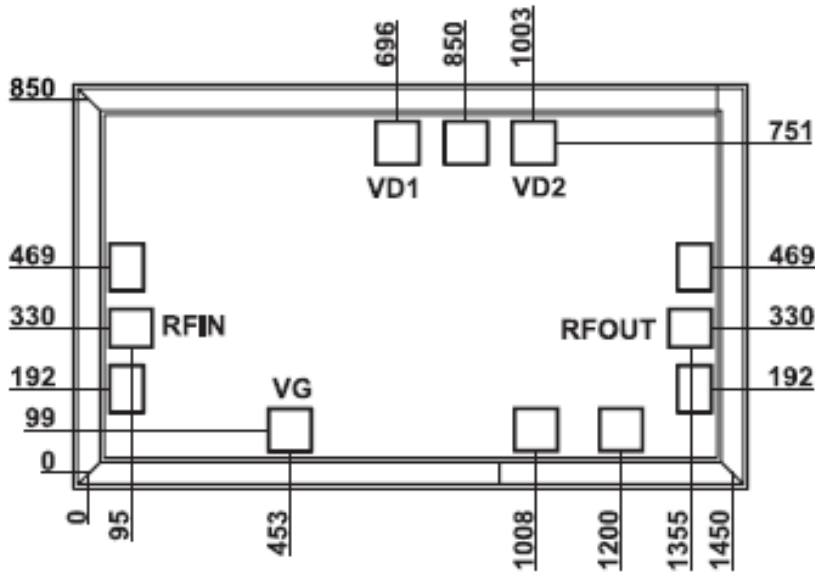
Isolation





Outline Drawing:

All Dimensions in μm



Assembly Drawing (Bond testing)

