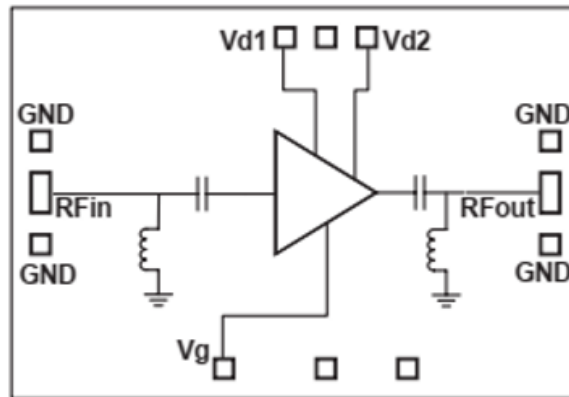


Features

- Frequency: 55-70GHz
- Gain: 21dB
- Noise Figure: 3.5dB
- P1dB: +10dBm
- Power supply: +2V@72mA
- I/O 50 Ohm matching: VSWR < 2

Typical Applications

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

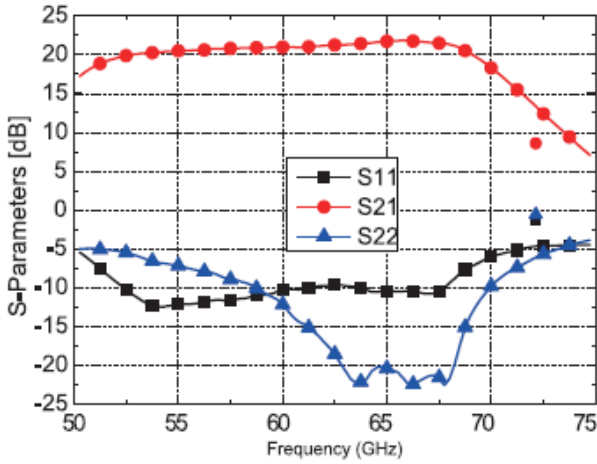
Functional Block Diagram

Electrical Specifications

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

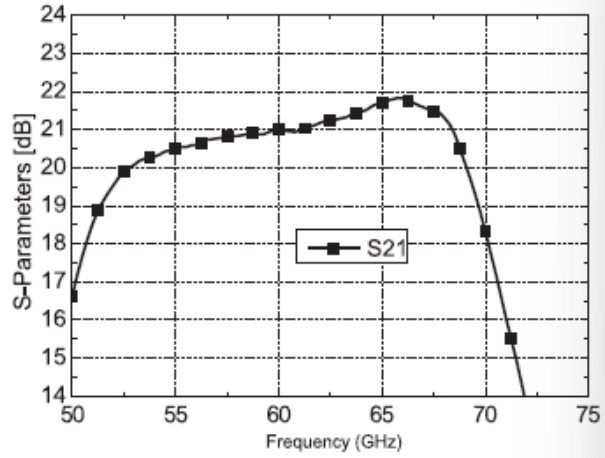
Parameters	Min.	Typ.	Max.	Units
Frequency	55-70			GHz
Gain	18.5	21	22	dB
Noise Figure		3.5	4	dB
Output 1dB Compression (P1dB)		+10		dBm
Input Return Loss		10		dB
Output Return Loss		15		dB
Operating Current		72		mA



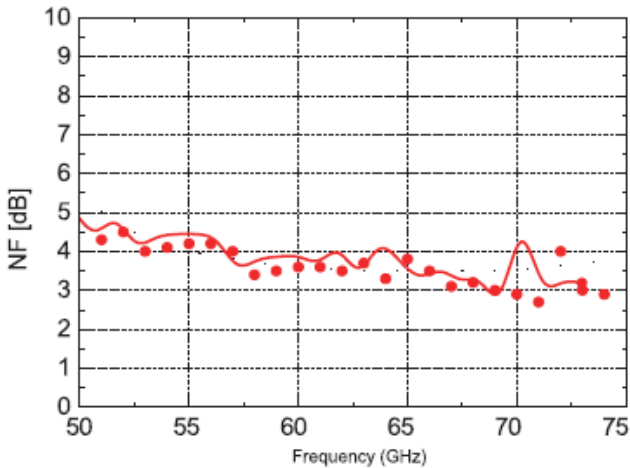
Frequency Response



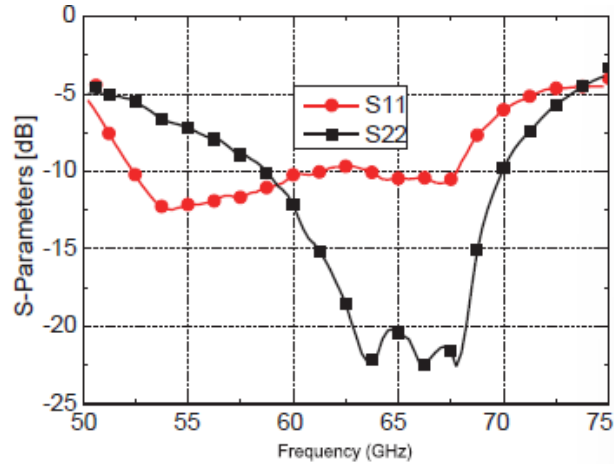
Gain



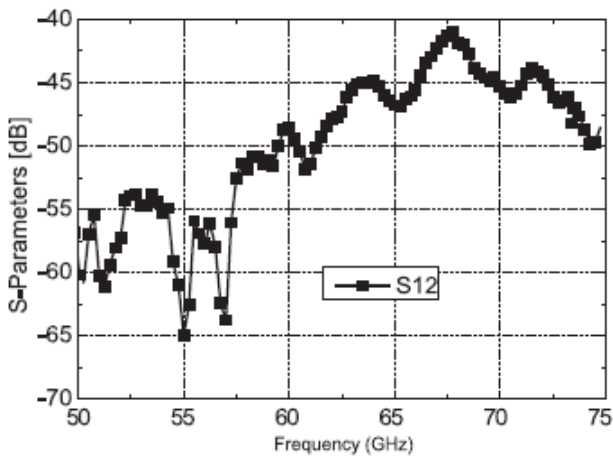
Noise Figure



I/O Return Loss



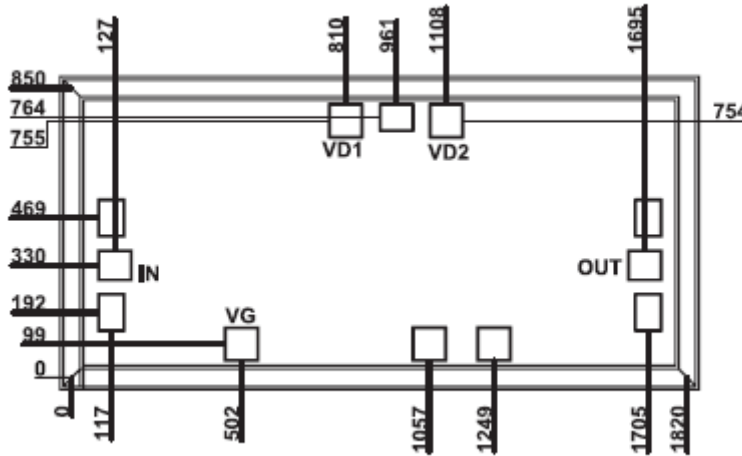
Isolation





Outline Drawing:

All Dimensions in μm



Assembly Drawing (Bond testing)

