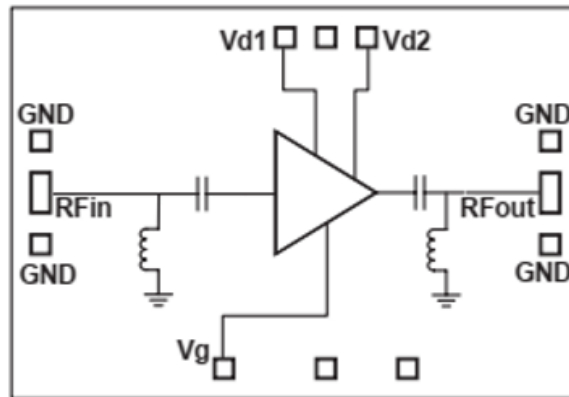


Features

- Frequency: 90-105GHz
- Gain: 18dB
- Noise Figure: 5dB
- P1dB: +8dBm
- Power supply: +2V@52mA
- I/O 50 Ohm matching: VSWR < 2

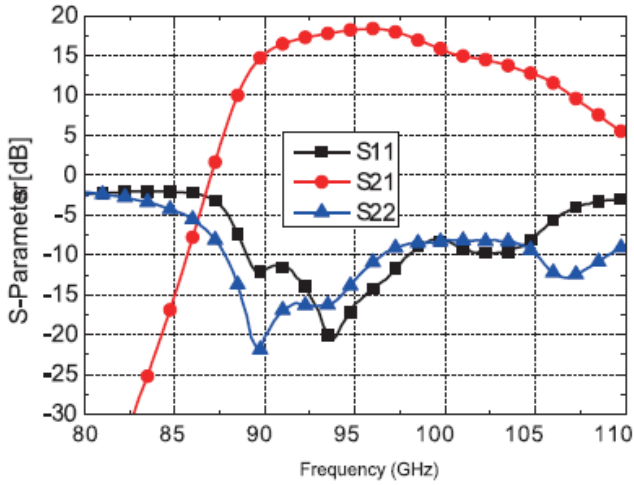
Typical Applications

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

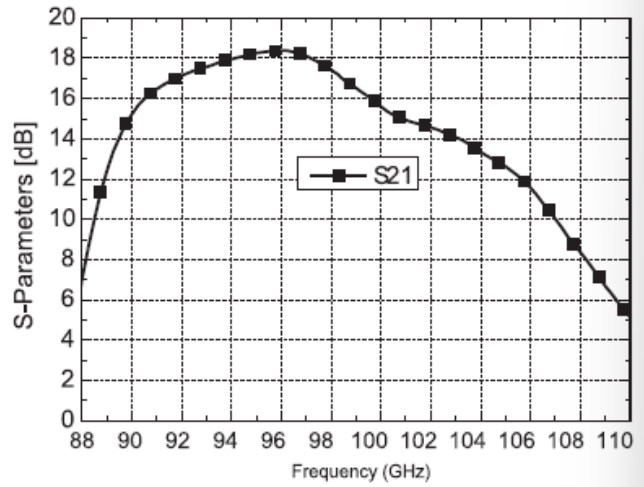
Functional Block Diagram

Electrical Specifications
TA = +25°C, Vd1 = Vd2 = +2V, Vg = -0.4V (On-wafer Measurement Results)

Parameters	Min.	Typ.	Max.	Units
Frequency	90-105			GHz
Gain	13	18		dB
Noise Figure		5		dB
Output 1dB Compression (P1dB)		+8		dBm
Input Return Loss	8	10		dB
Output Return Loss	8	10		dB
Operating Current		52		mA

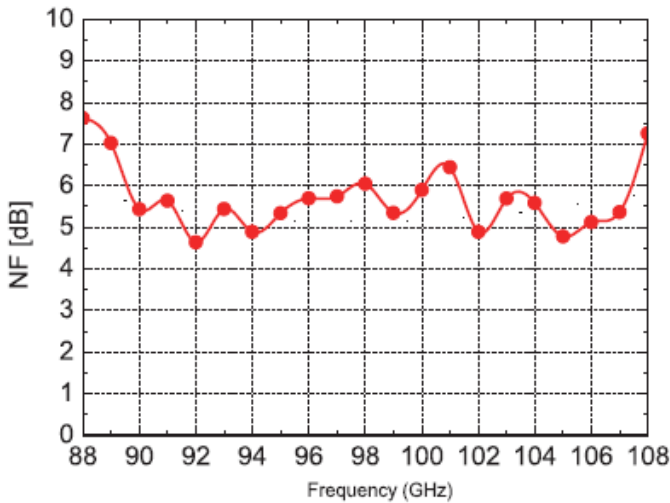
Frequency Response



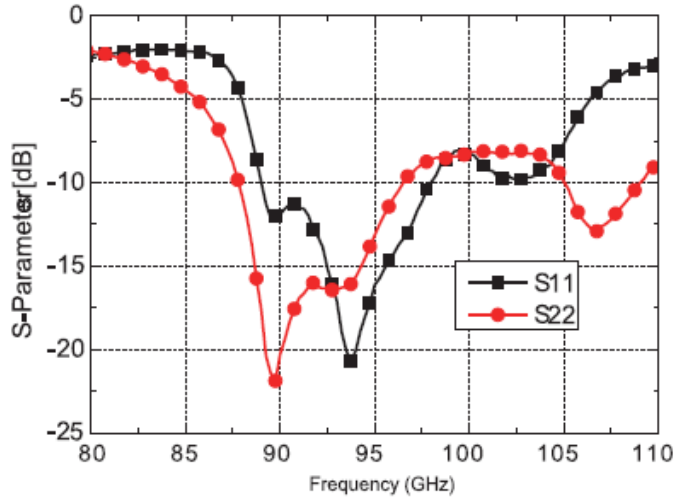
Gain



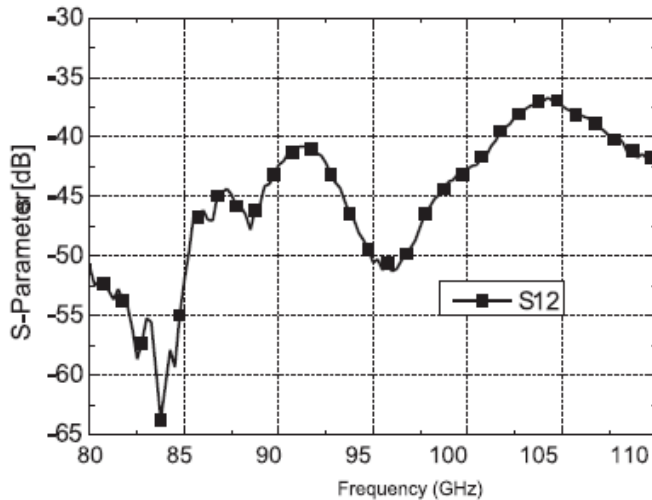
Noise Figure



I/O Return Loss



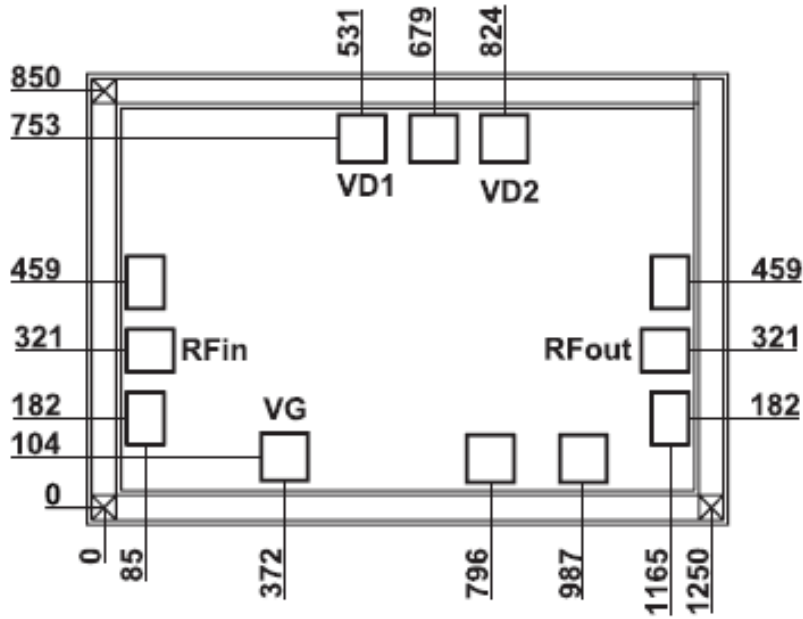
Isolation





Outline Drawing:

All Dimensions in μm



Assembly Drawing (Bond testing)

