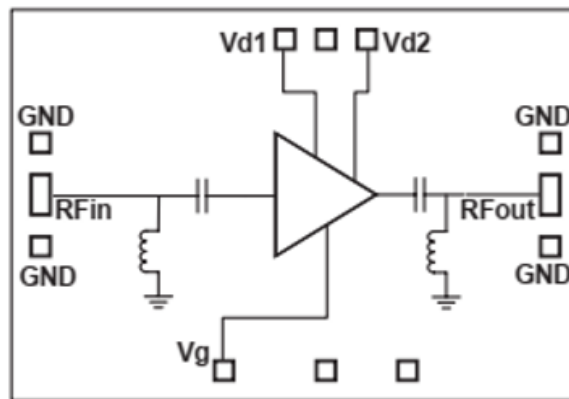


Features

- Frequency: 75-90GHz
- Gain: 18dB
- Noise Figure: 4.5dB
- P1dB: +10dBm
- Power supply: +2V@85mA
- I/O 50 Ohm matching: VSWR < 2

Typical Applications

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

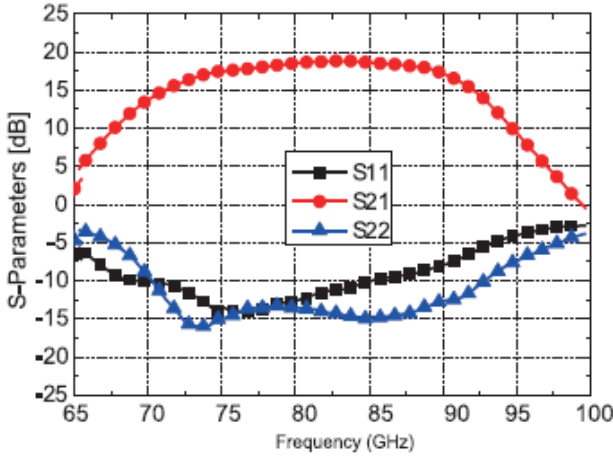
Functional Block Diagram

Electrical Specifications

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

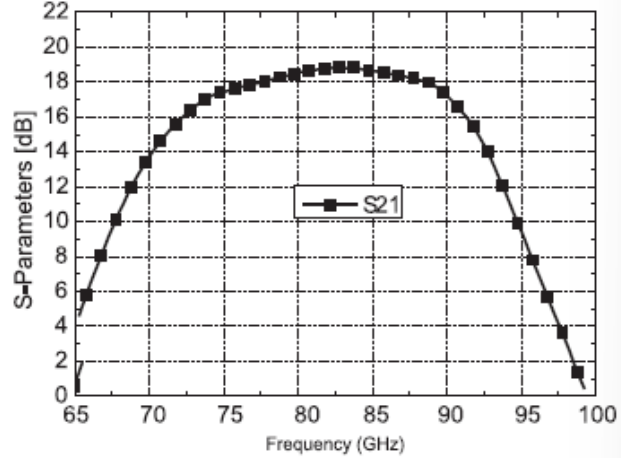
Parameters	Min.	Typ.	Max.	Units
Frequency	75-90			GHz
Gain		18		dB
Noise Figure		4.5		dB
Output 1dB Compression (P1dB)		+10		dBm
Input Return Loss		10		dB
Output Return Loss		13		dB
Operating Current		85		mA



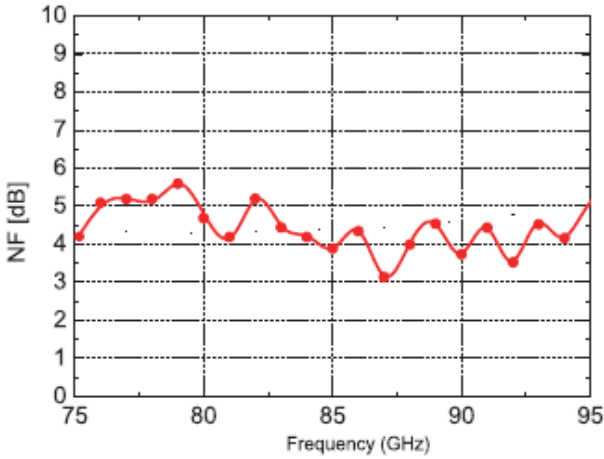
Frequency Response



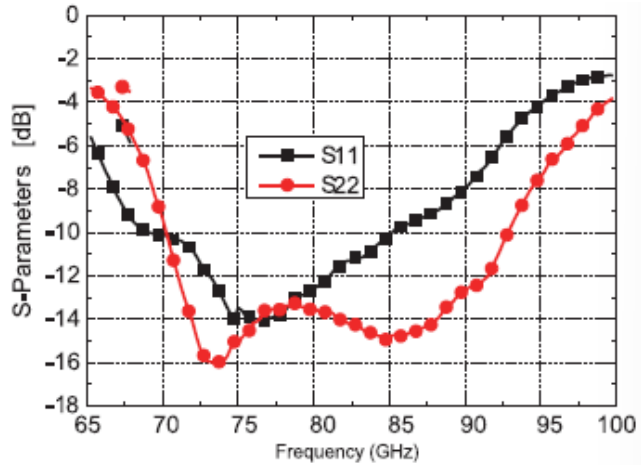
Gain



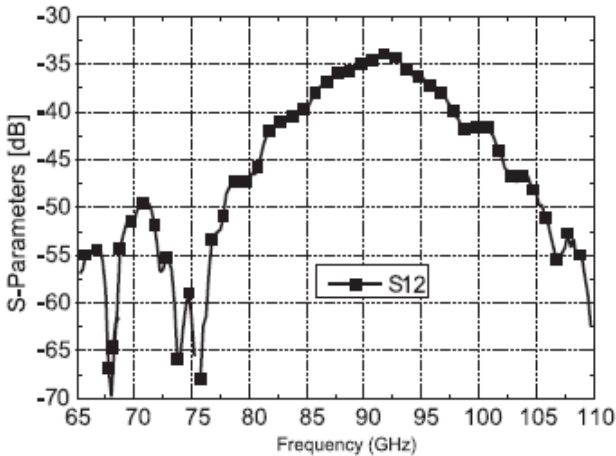
Noise Figure



I/O Return Loss

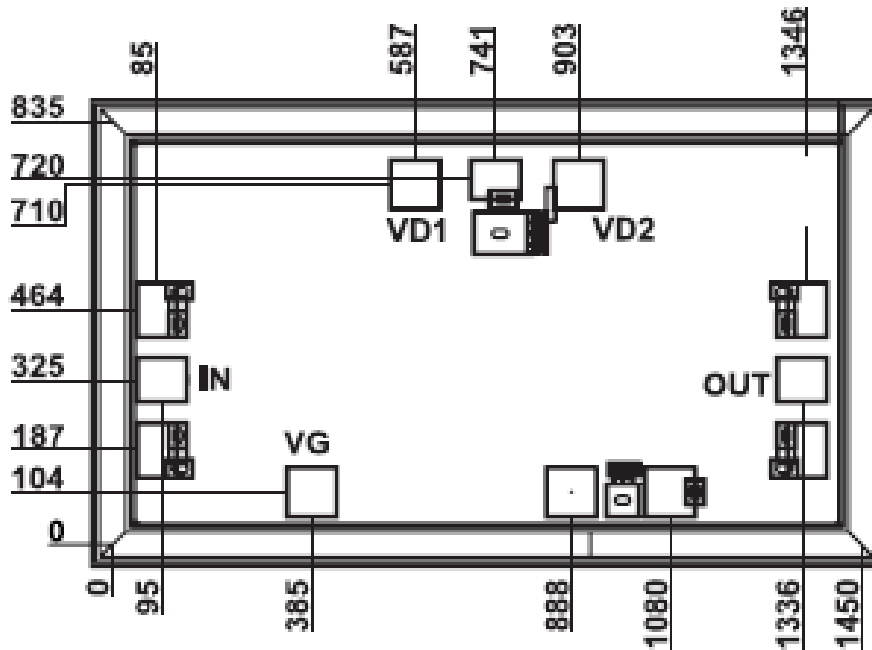


Isolation





Outline Drawing: All Dimensions in μm



Assembly Drawing (Bond testing)

