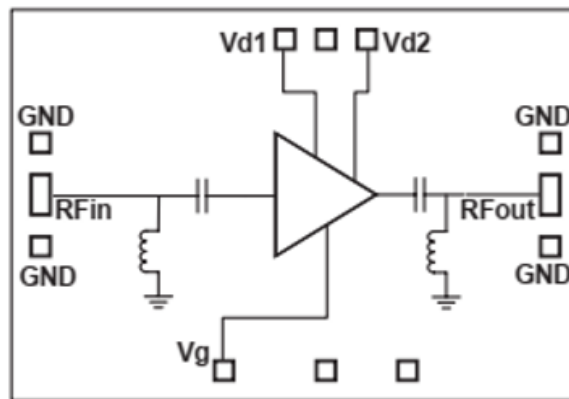


Features

- Frequency: 90-100GHz
- Gain: 18dB
- Noise Figure: 5dB
- P1dB: +10dBm
- Power supply: +2V@81mA
- I/O 50 Ohm matching: VSWR < 2

Typical Applications

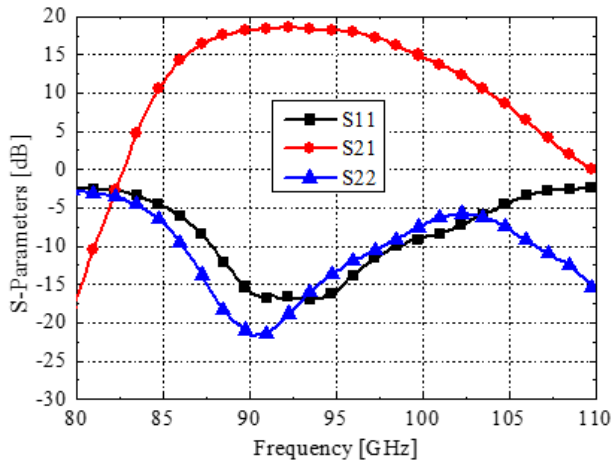
- Test Instrumentation
- Microwave Radio & VSAT
- Military & Space
- Telecom Infrastructure
- Fiber Optics

Functional Block Diagram

Electrical Specifications

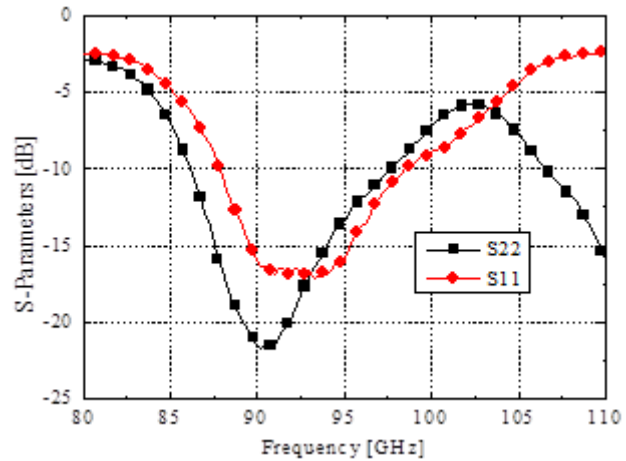
TA = +25°C, Vd1 = Vd2 = +2V, Vg = -0.4V (On-wafer Measurement Results)

Parameters	Min.	Typ.	Max.	Units
Frequency	90-100			GHz
Gain		18		dB
Noise Figure		5		dB
Output 1dB Compression (P1dB)		+10		dBm
Input Return Loss		10		dB
Output Return Loss		13		dB
Operating Current (@Vd = 2V)		81		mA

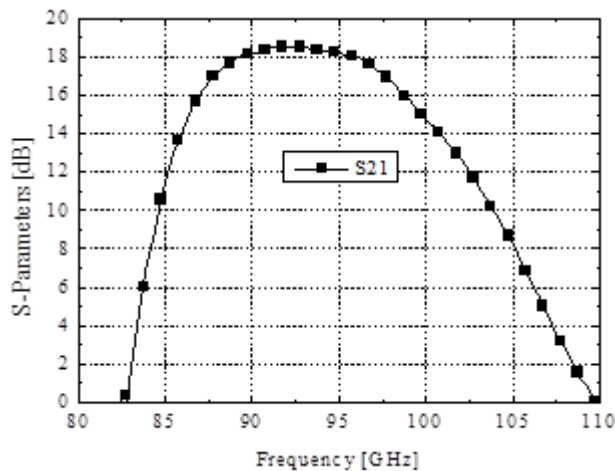
Frequency Response



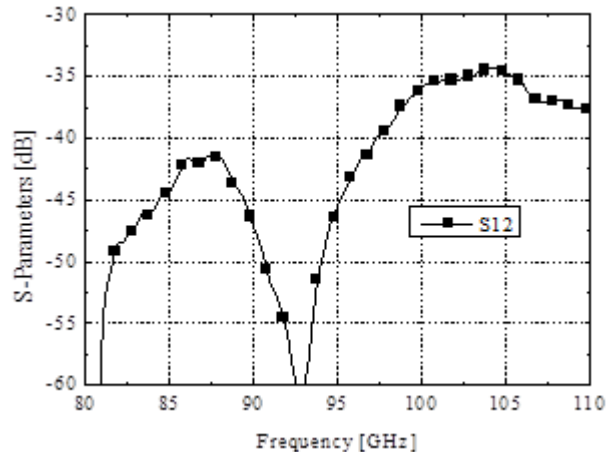
I/O Return Loss



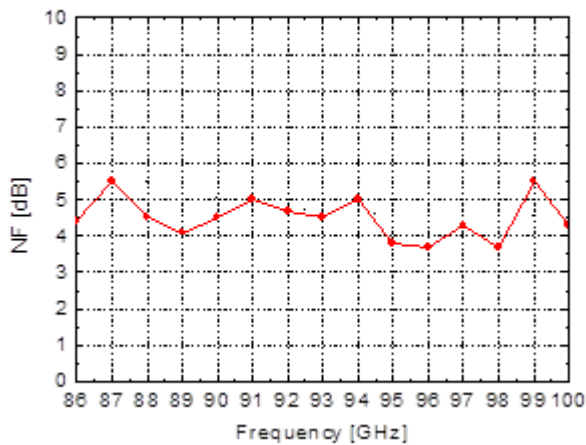
Gain



Isolation

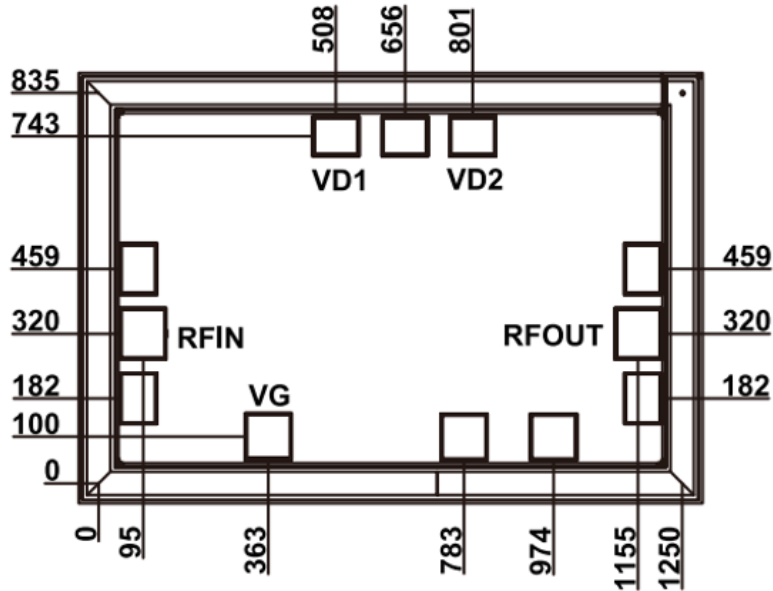


Noise Figure





Outline Drawing: All Dimensions in μm



Assembly Drawing (Bond testing)

