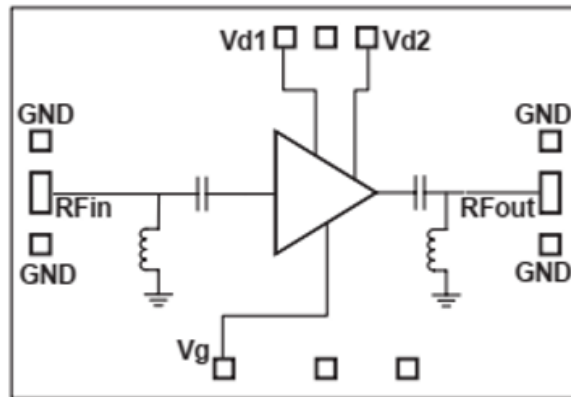


Features

- Frequency: 77-90GHz
- Gain: 21dB
- Noise Figure: 5dB
- P1dB: +12dBm
- Power supply: +3V@45mA
- I/O 50 Ohm matching: VSWR < 1.8

Typical Applications

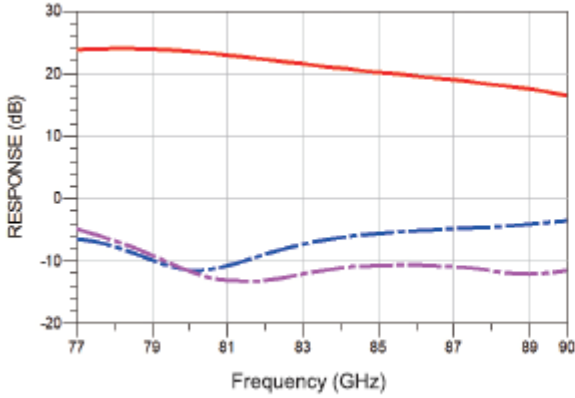
- Test Instrumentation
- Microwave Radio & VSAT
- Military & Space
- Telecom Infrastructure
- Fiber Optics

Functional Block Diagram

Electrical Specifications

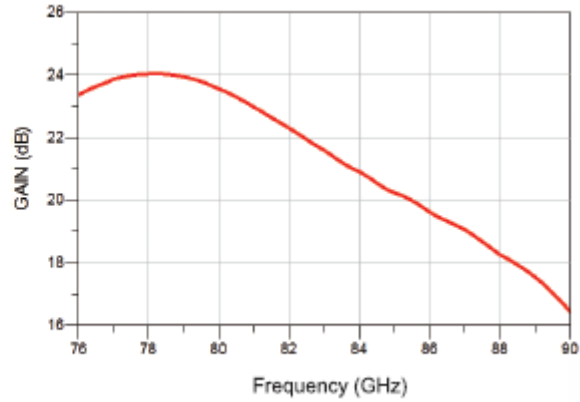
TA = +25°C, Vd1 = Vd2 = +3V, Vg = -0.5V (On-wafer Measurement Results)

Parameters	Min.	Typ.	Max.	Units
Frequency	77-90			GHz
Gain	18.5	21		dB
Noise Figure		5		dB
Output 1dB Compression (P1dB)		+12		dBm
Input Return Loss	5	8		dB
Output Return Loss	5	12		dB
Operating Current		45		mA

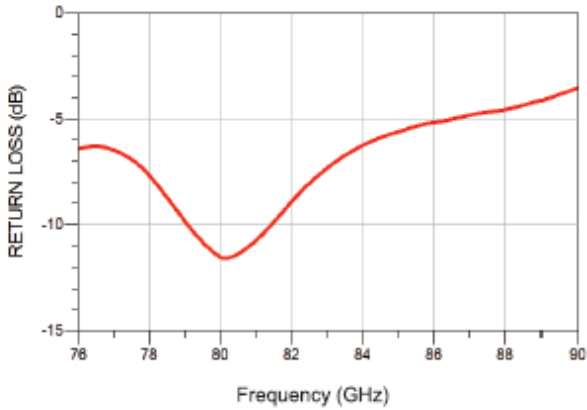
Frequency Response



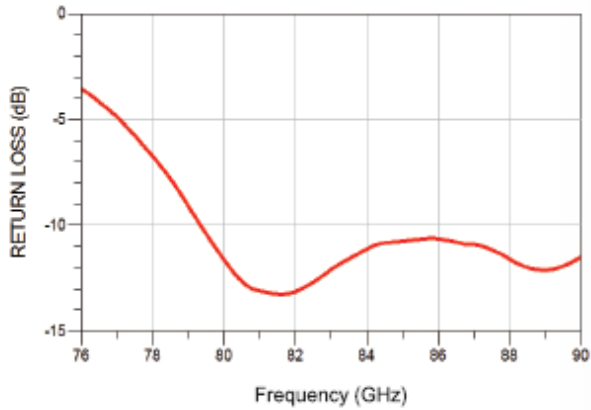
Gain



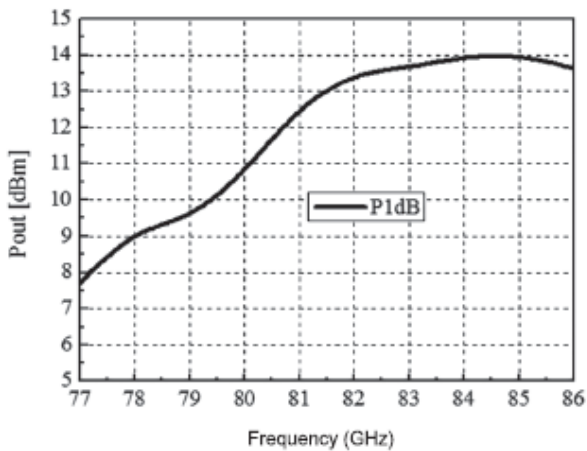
Noise Figure



I/O Return Loss



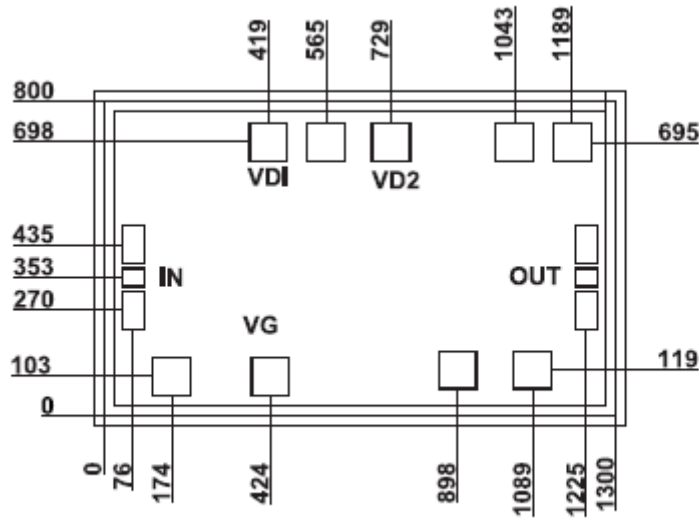
Isolation





Outline Drawing:

All Dimensions in μm



Assembly Drawing (Bond testing)

