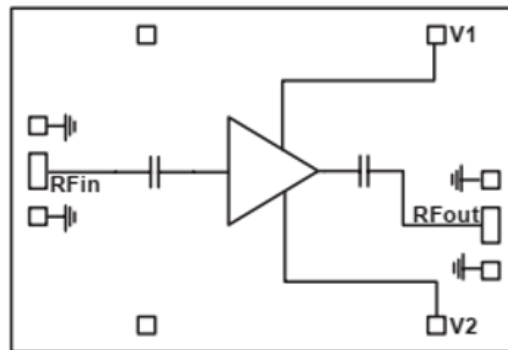


Features

- Single Biasing Voltage(Self Biased)
- Frequency: 16-40GHz
- Gain: 24dB
- Noise Figure: 3.5dB
- P1dB: 10dBm
- Power supply: +3V@91mA
- I/O 50 Ohm matching: VSWR < 1.6

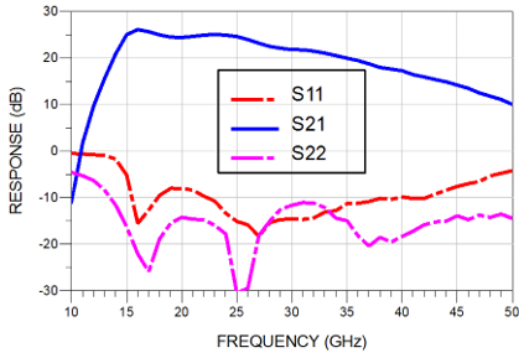
Typical Applications

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

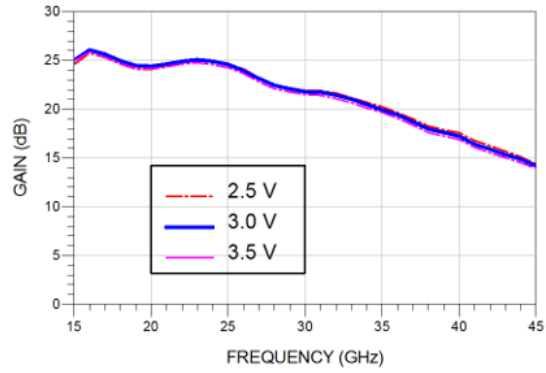
Functional Block Diagram

Electrical Specifications
TA = +25°C, Vdd = +3V (On-wafer Measurement Results)

Parameters	Min.	Typ.	Max.	Units
Frequency	16-40			GHz
Gain	17	24		dB
Noise Figure		3.5		dB
Output 1dB Compression (P1dB)		+10		dBm
Input Return Loss	8	10		dB
Output Return Loss	12	15		dB
OIP3		+20		dBm
Operating Current (@Vdd = 3V)		91		mA

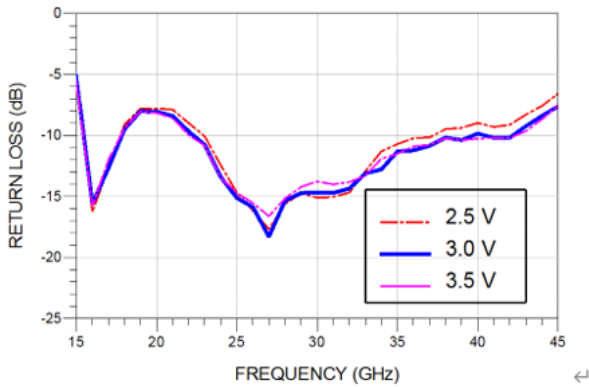
Frequency Response



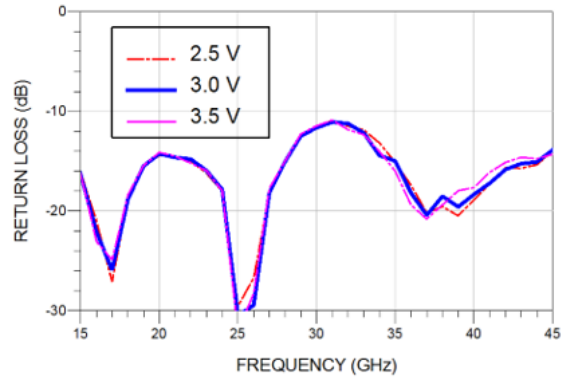
Gain vs. Supply Voltage



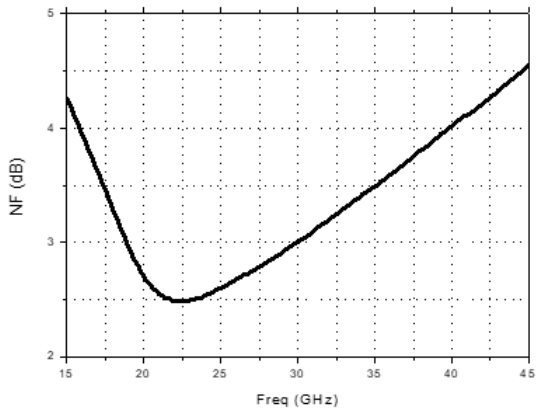
Input Return Loss vs. Supply Voltage



Output Return Loss vs. Supply Voltage

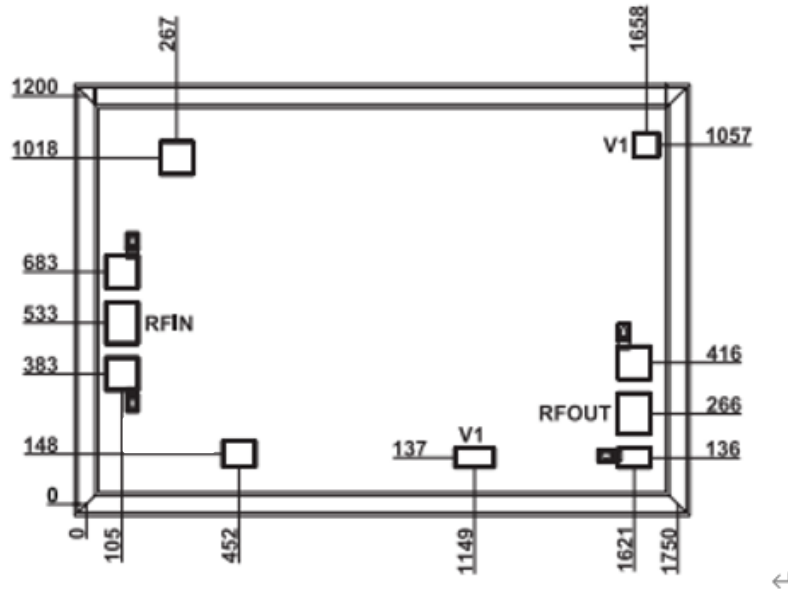


Noise Figure





Outline Drawing: All Dimensions in μm



Assembly Drawing (Bond testing)

