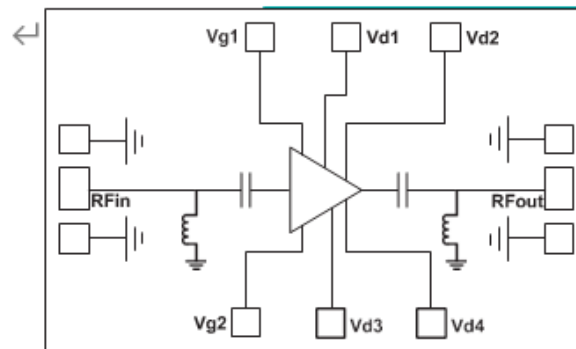


Features

- Frequency: 35-43GHz
- Gain: 20dB
- P1dB: +27dBm
- Power Supply: 6V @400mA
- I/O 50 Ohm matching: VSWR < 2

Typical Applications

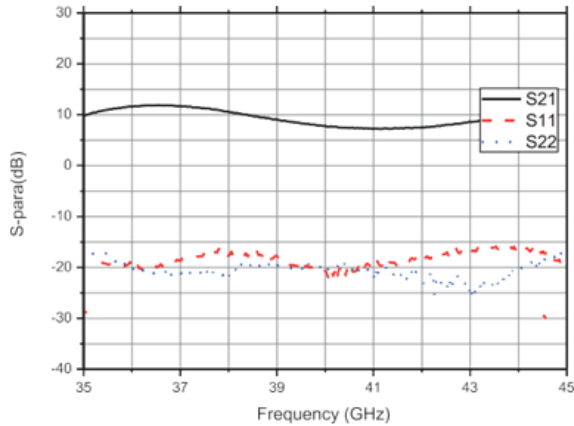
- Test Instrumentation
- Microwave Radio & VSAT
- Military & Space
- Telecom Infrastructure
- Fiber Optics

Functional Block Diagram

Electrical Specifications

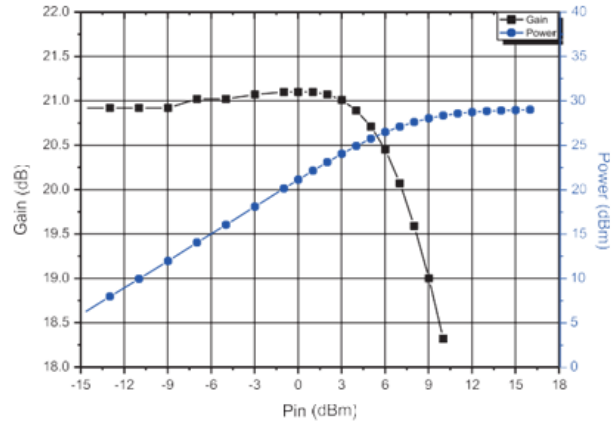
TA = +25°C, Vdd = +6V, Vgg = -0.74V ((On-wafer Measurement Results))

Parameters	Min.	Typ.	Max.	Units
Frequency	35-43			GHz
Gain		20		dB
P1dB		27		dBm
Input Return Loss		20		dB
Output Return Loss		20		dB
Operating Current		400		mA

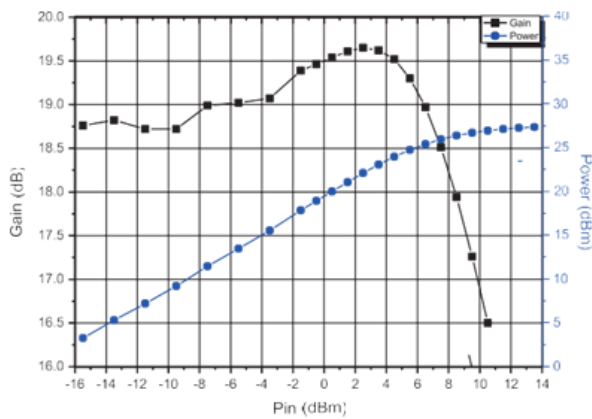
S-Parameter vs. Frequency



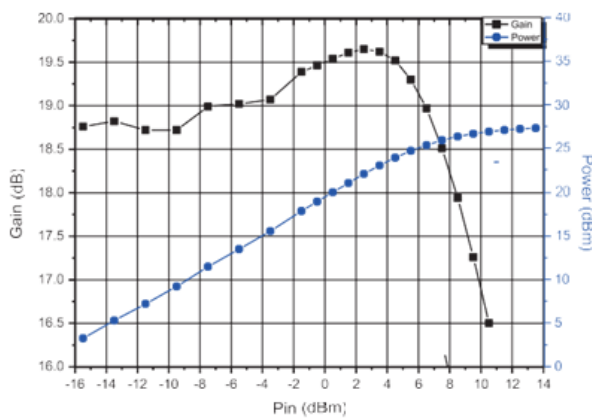
Gain @ 35GHz



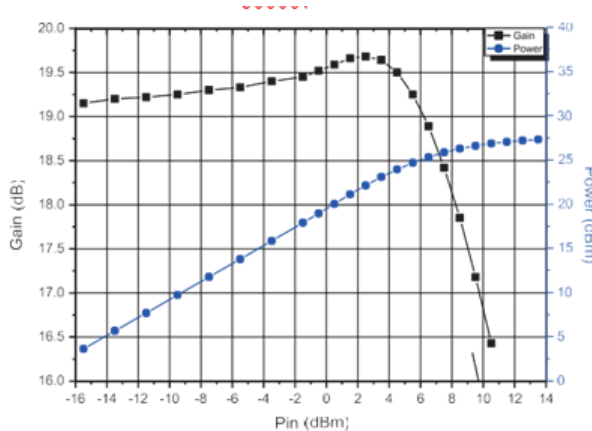
Gain @ 40GHz



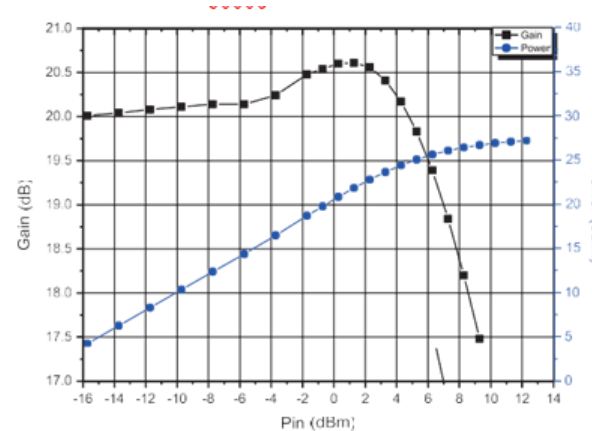
Gain @ 41GHz



Gain @ 42GHz

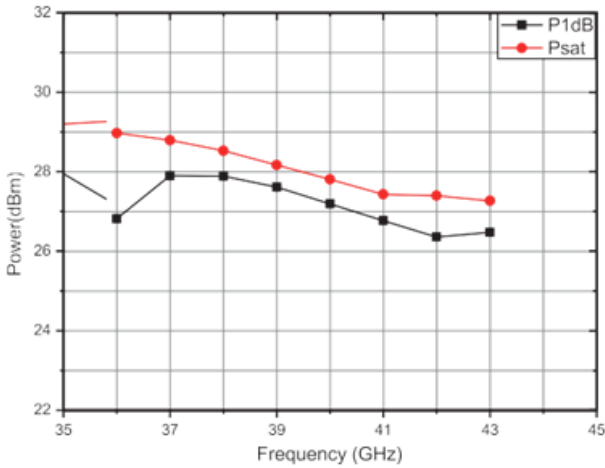


Gain @ 43GHz

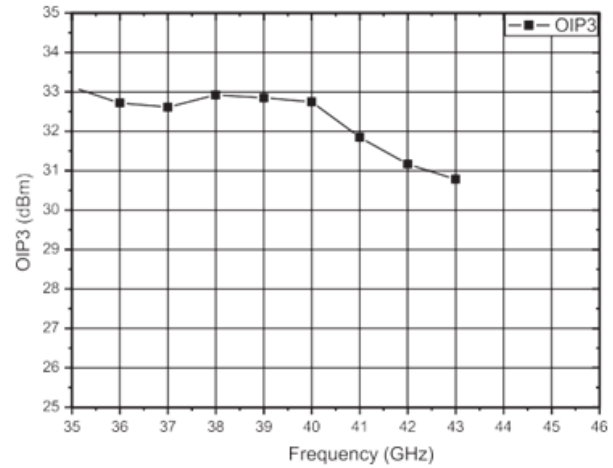




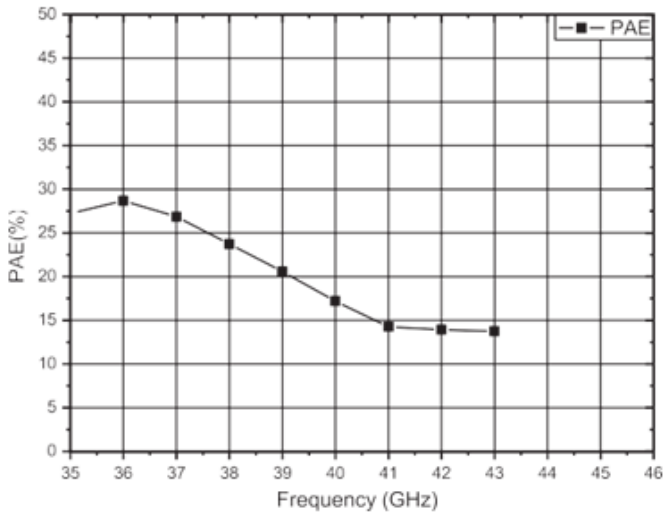
P1dB & Psat vs. Frequency



OIP3 vs. Frequency

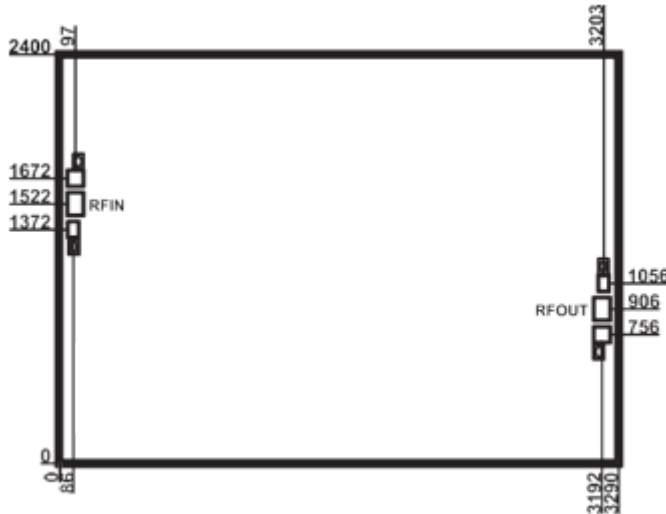


PAE vs. Frequency





Outline Drawing: All Dimensions in μm



Assembly Drawing (Bond testing)

