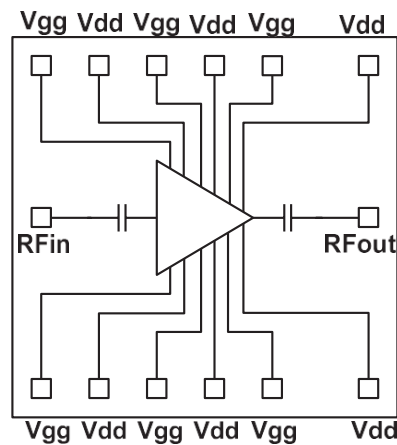


Features

- Frequency: 13-15GHz
- Gain: 25dB
- Gain Flatness: ± 0.5 dB
- Psat: +39dBm
- Power Supply: +8V@1760mA
- I/O 50 ohm matching: VSWR<1.8

Functional Block Diagram

Typical Applications

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

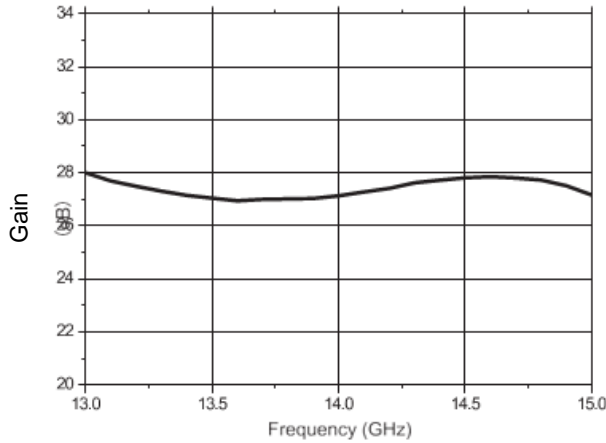
Electrical Specifications

TA = +25°C, Vdd = +8V, Vgg = -0.8V (On-wafer Measurement Results)

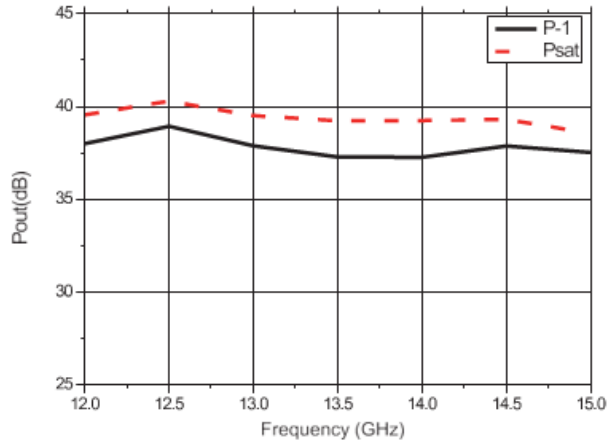
Parameters	Min.	Typ.	Max.	Units
Frequency		13-15		GHz
Gain		25		dB
Psat		39		dBm
Input Standing Wave		-8		dB
Output Standing Wave		-12		dB
Operating Current		1760		mA



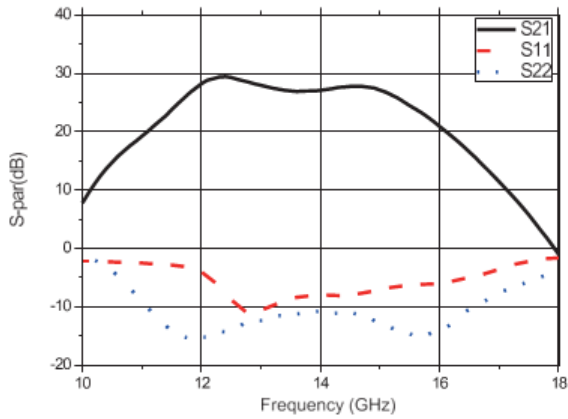
Gain vs. Frequency



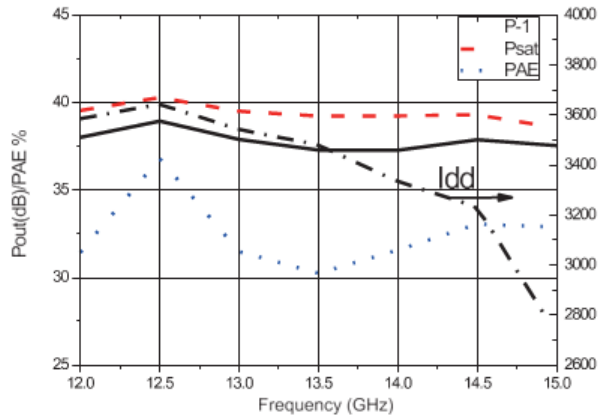
Psat vs. Frequency



S-parameter vs. Frequency

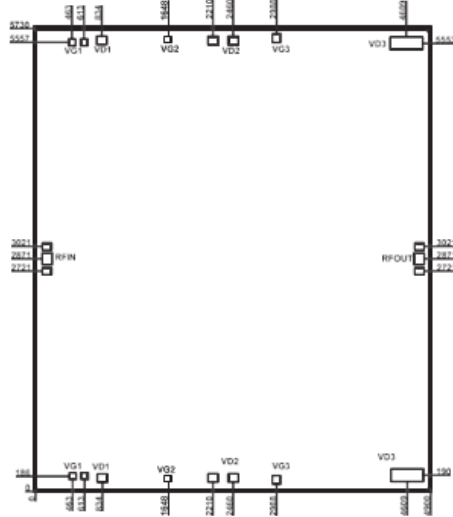


Pout/PAE vs. Frequency

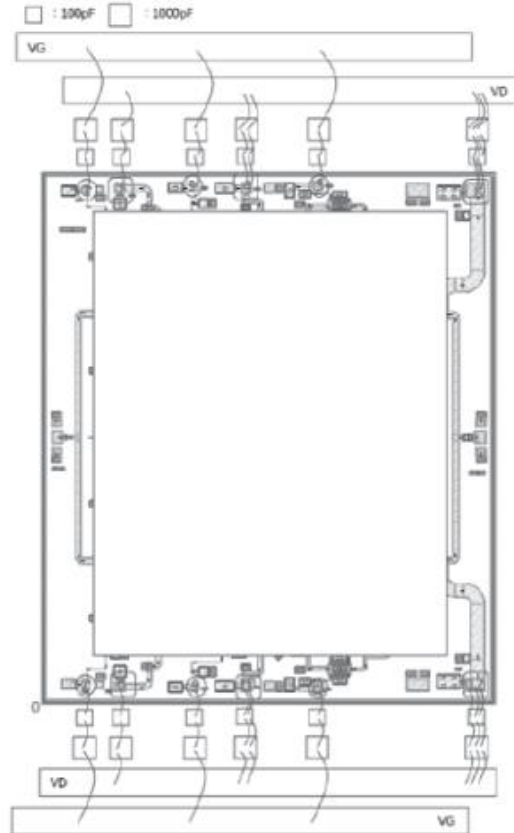






Outline Drawing: All Dimensions in μm



Assembly Drawing (Bond testing)



-  : The pad with negative voltage V_{gg} needs to be added
-  : The pad with positive voltage $V_{dd} = +6V$ needs to be added