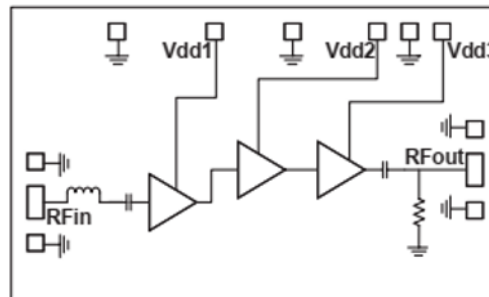


**Features**

- Frequency: 14-29GHz
- Gain: 27dB
- Gain Flatness:  $\pm 1.5$ dB
- Noise Figure: 2.1dB
- P1dB: 9.5dBm
- Power supply: +2.5V@63mA
- I/O 50 Ohm matching: VSWR < 2

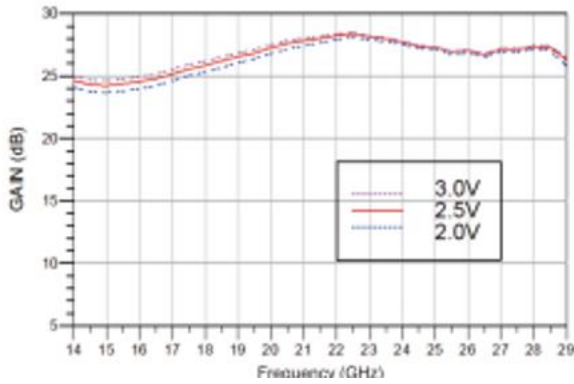
**Functional Block Diagram**

**Typical Applications**

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

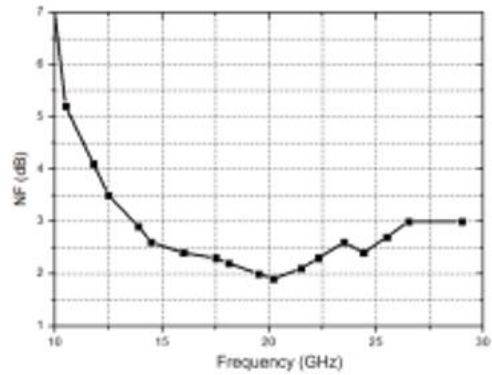
**Electrical Specifications**
**TA = +25°C, Vdd = +2.5V (On-wafer Measurement Results)**

Parameters	Min.	Typ.	Max.	Units
Frequency	14-29			GHz
Gain		27		dB
Gain Flatness	-1.5		+1.5	dB
Noise Figure		2.1		dB
Output 1dB Compression (P1dB)		+9.5		dBm
Input Return Loss		12		dB
Output Return Loss		15		dB
Operating Current (@Vdd = 2.5V)		63		mA

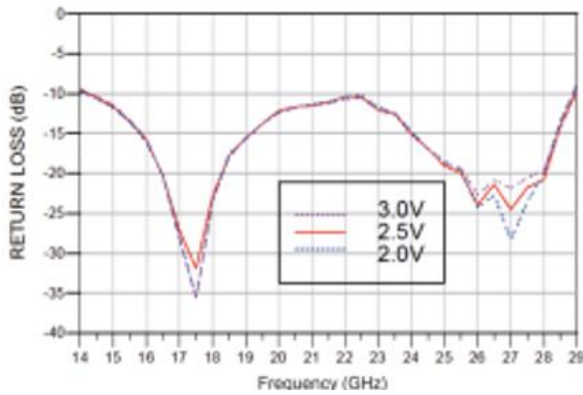
### Gain vs. Frequency



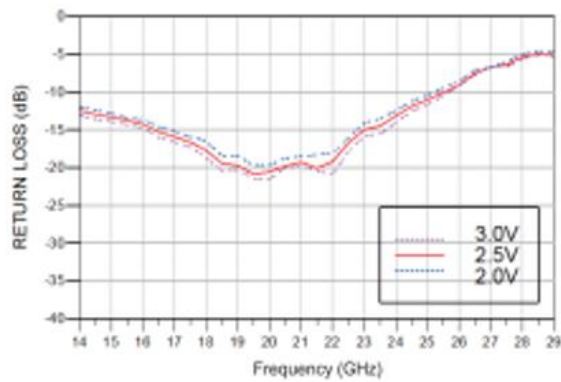
### Noise Figure vs. Frequency



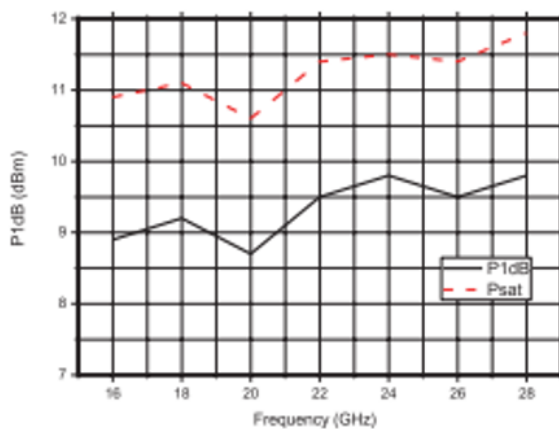
### Input Return Loss vs. Frequency



### Output Return Loss vs. Frequency

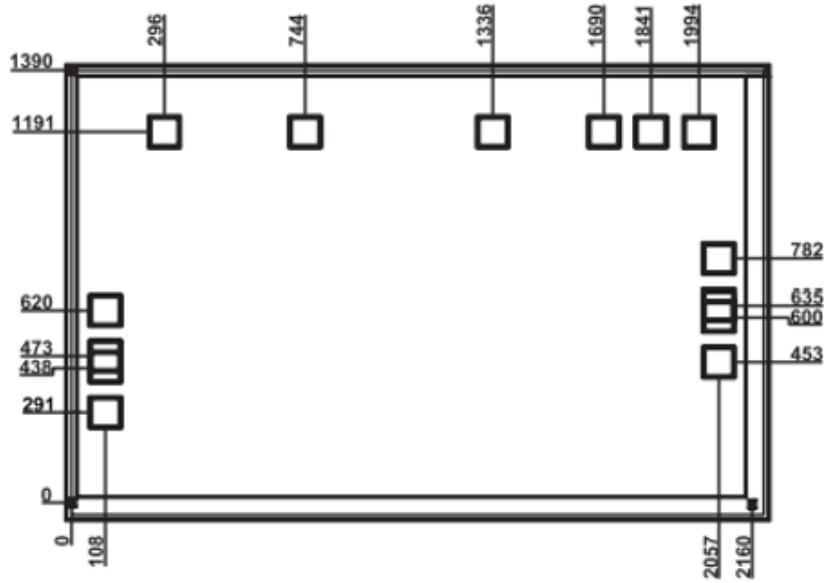


### P1dB vs. Frequency





### Outline Drawing: All Dimensions in $\mu\text{m}$



### Assembly Drawing (Bond testing)

