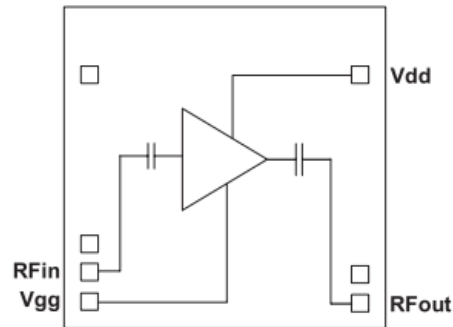


Features

- Single Biasing Voltage(Self Biased)
- Frequency: 18-25GHz
- Gain: 14.5dB
- Gain Flatness: ± 1 dB
- P1dB: +21.5dBm
- Power supply: +5.0V@85mA
- Input/output 50 ohm matching: VSWR<1.8

Typical Applications

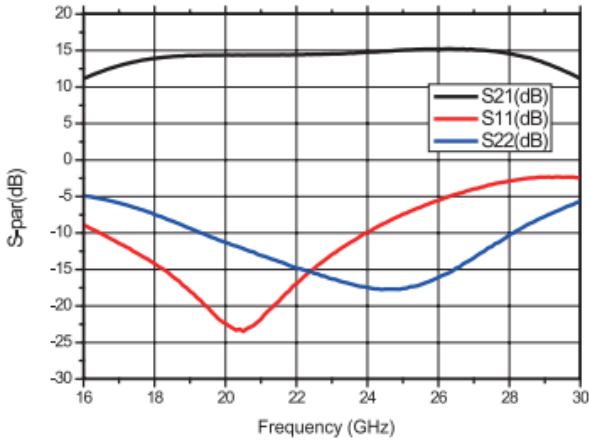
- Test Instrumentation
- Microwave Radio & VSAT
- Military & Space
- Telecom Infrastructure
- Fiber Optics

Functional Block Diagram

Electrical Specifications
TA = +25°C, Vdd = +5.0V, Vg = -0.7V

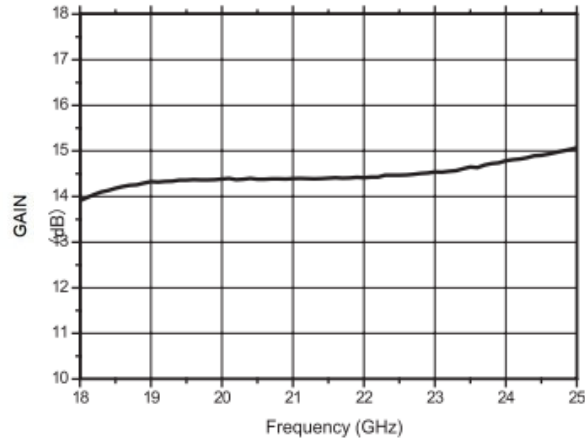
Parameters	Min.	Typ.	Max.	Units
Frequency		18-25		GHz
Gain		14.5		dB
P1dB		21.5		dBm
Psat		22.5		dBm
Input Standing Wave		1.5		
Output Standing Wave		1.5		
Operating Current		85		mA



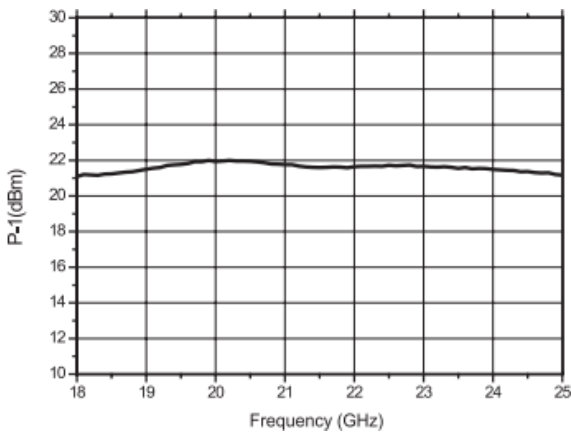
S-par vs. Frequency



Gain vs. Frequency

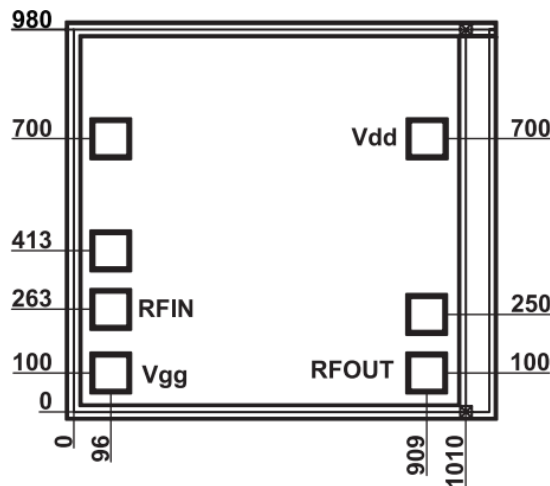


P-1dB vs. Frequency



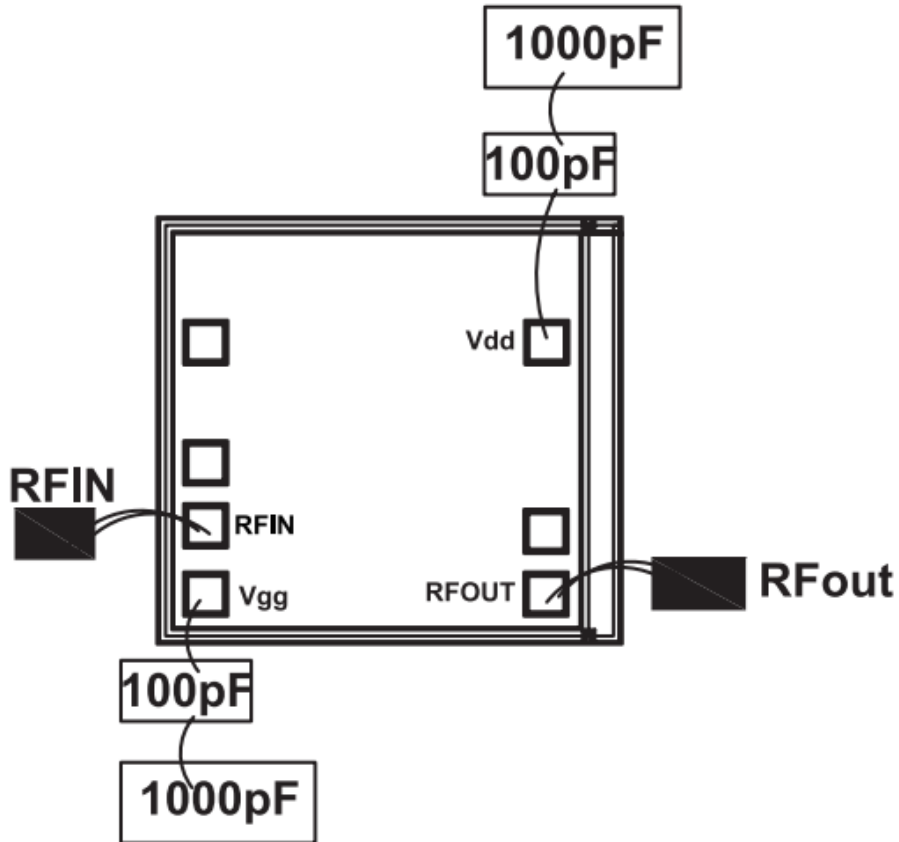
Outline Drawing:

All Dimensions in um





Assembly Drawing



Notes:

1. Die thickness: 100um
2. Typical bond pad is 100*100 μm^2
3. Bond pad metalization: Gold
4. Backside metalization: Gold
5. Backside of the die (GND)
6. No connection required for unlabeled bond pads