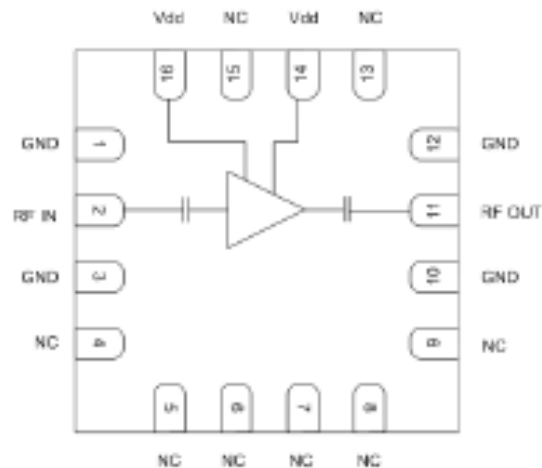


Features

- Frequency: 7-15GHz
- Small Signal Gain: 17dB
- Noise Figure: 3.2dB typ./3.6dB max.
- P1dB: 14dBm
- Psat: 16dBm
- Power supply: +5V/60mA
- Input/Output: 50Ω
- Die Size: 4.0 x 4.0 mm Lead-free surface mount

Typical Applications

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

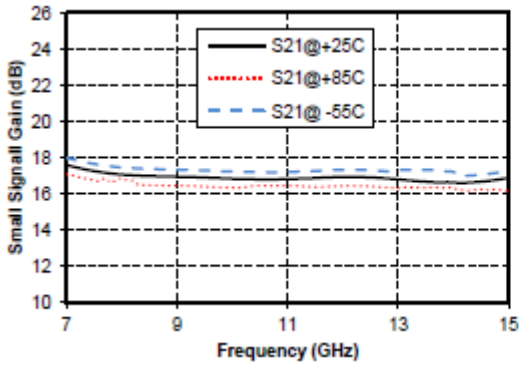
Functional Block Diagram

Electrical Specifications

TA = +25°C, Vd = +5V

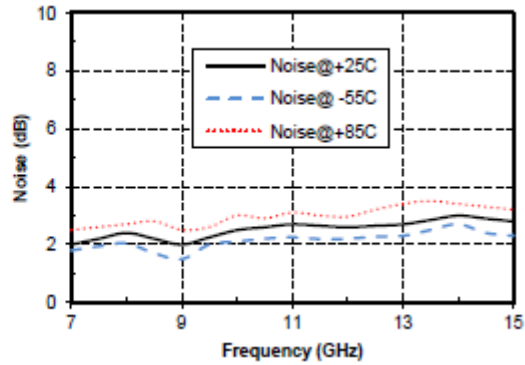
Parameters	Min.	Typ.	Max.	Units
Frequency	7-15			GHz
Small Signal Gain	16.5	17	17.5	dB
Gain Flatness		±0.5		dB
Noise Figure	2.0	2.5	3.0	dB
Output 1dB Compression (P1dB)	13	14	15	dBm
Saturated Output Power (Psat)	15.5	16	16.5	dBm
Input Return Loss		10		dB
Output Return Loss		10		dB
Static Current		60		mA



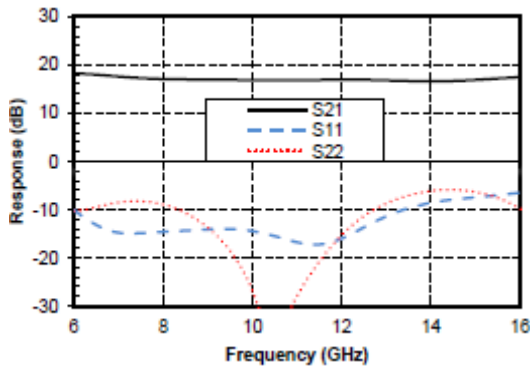
Gain vs. Frequency



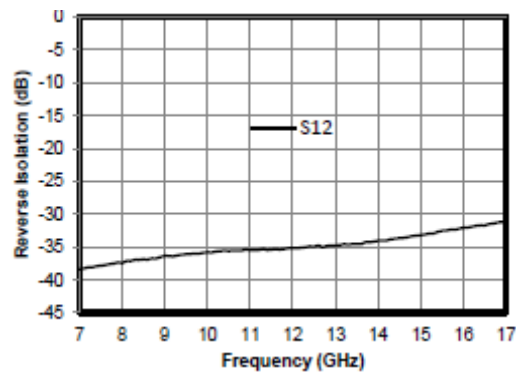
Noise Figure vs. Frequency



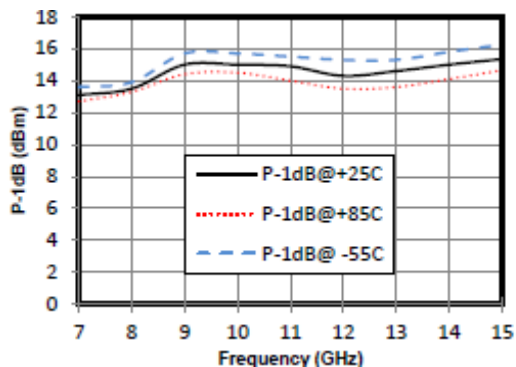
Gain&Return Loss vs. Frequency



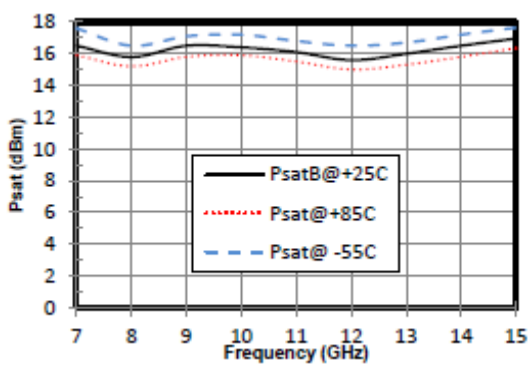
Reverse Isolation vs. Frequency



P1dB vs. Frequency

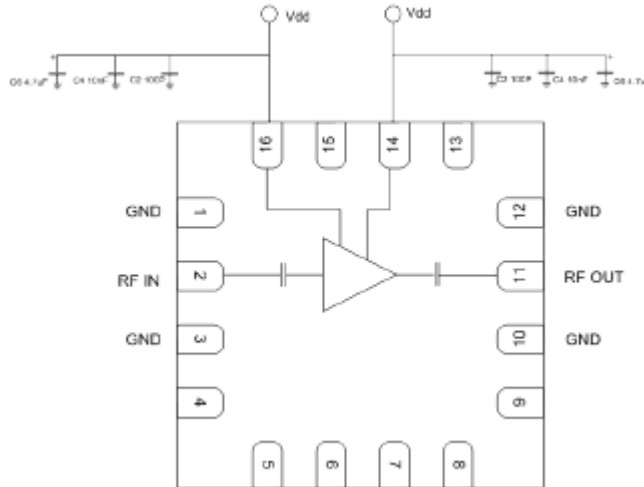


Psat vs. Frequency





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

Maximum Ratings:

1. Maximum drain voltage: +7V
2. Maximum input power: +20dBm
3. Operating temperature: -55°C to +85°C
4. Storage temperature: -65°C to +150°C