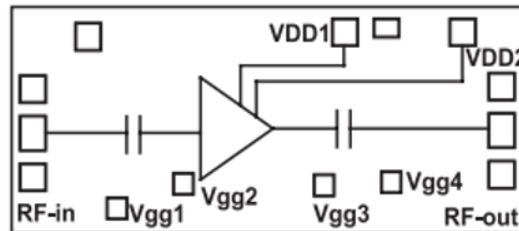


Features

- Frequency: 6-18GHz
- Gain: 30dB
- Gain Flatness: ± 1.2 dB
- Noise Figure: 2dB
- P1dB: 17dBm
- Power supply: +5V@86mA
- I/O 50 Ohm matching: VSWR < 1.5

Functional Block Diagram

Typical Applications

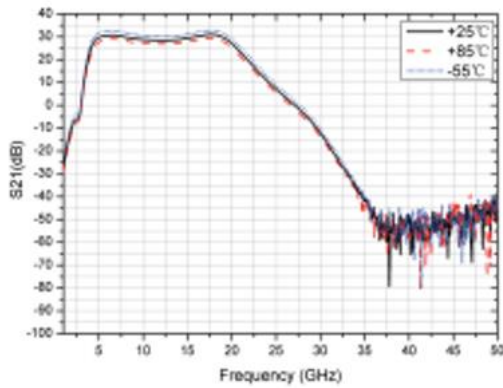
- Test Instrumentation
- Microwave Radio & VSAT
- Military & Space
- Telecom Infrastructure
- Fiber Optics

Electrical Specifications

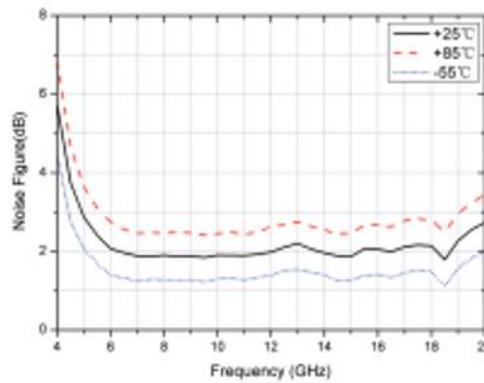
TA = +25°C, Vdd1 = Vdd2 = +5.0V (On-wafer Measurement Results)

Parameters	Min.	Typ.	Max.	Units
Frequency	6-18			GHz
Gain	29.5	30	32	dB
Noise Figure		2	2.8	dB
Output 1dB Compression (P1dB)	16	17	19	dBm
Input Return Loss	8	10		dB
Output Return Loss		15		dB
Operating Current (@Vdd = 5V)		86		mA

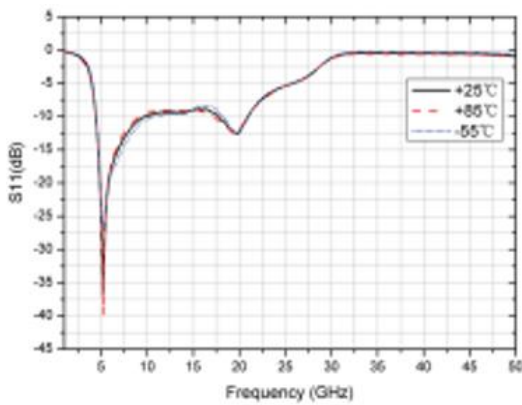
Gain vs. Frequency



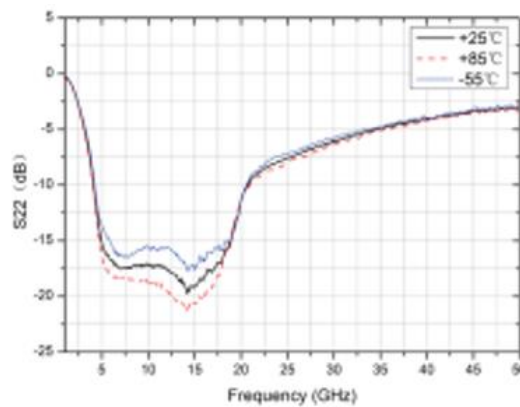
Noise Figure vs. Frequency



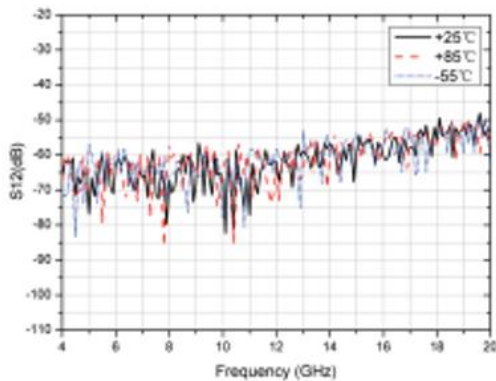
Input Return Loss vs. Frequency



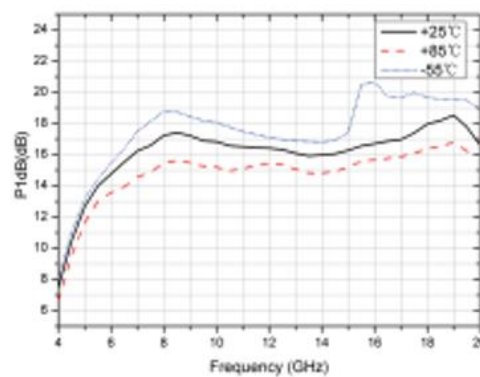
Output Return Loss vs. Frequency



Reverse Isolation vs. Frequency

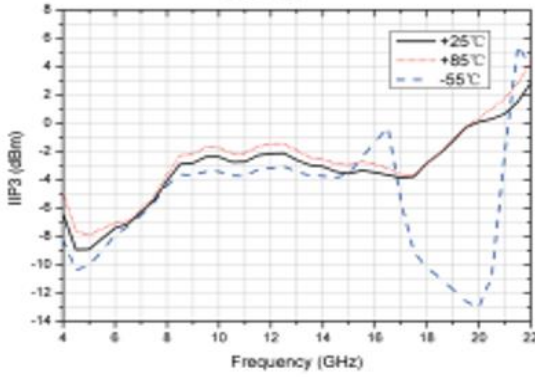


P1dB vs. Frequency

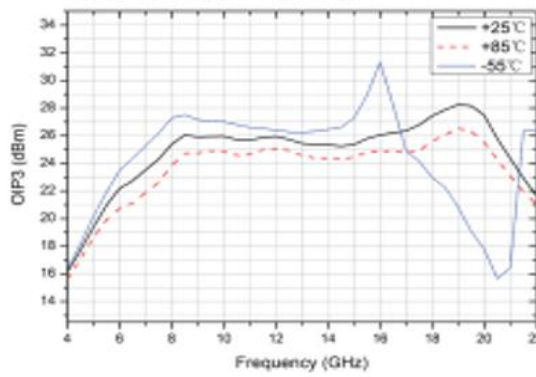




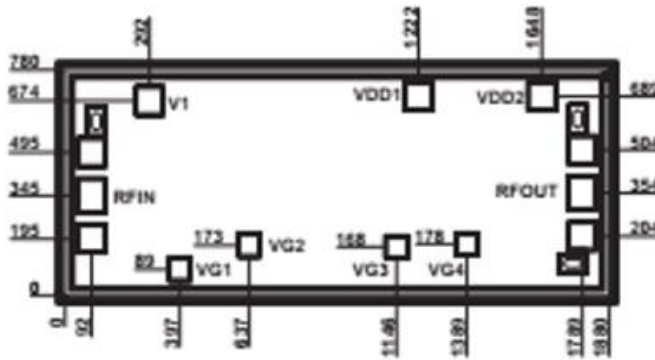
IIP3 vs. Frequency @PIN = -16dBm



OIP3 vs. Frequency @PIN = -16dBm



Outline Drawing:
All Dimensions in μm



Assembly Drawing (Bond testing)

