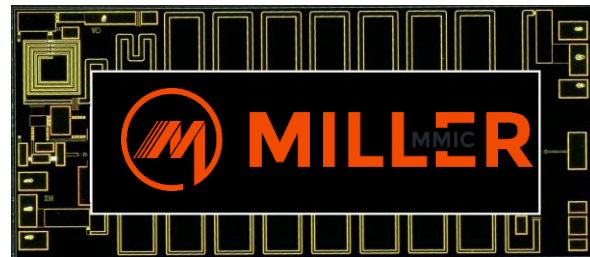


Features

- Single Biasing Voltage(Self Biased)
- Frequency: 14-18GHz
- Small Signal Gain: 21dB
- Gain Flatness: ± 0.9 dB
- P1dB: 20dBm
- Psat: 21dBm
- Power Supply: +5V/75mA
- Input/Output: 50 Ω
- Die Size: 1.68 x 0.98 x 0.1mm

Typical Applications

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

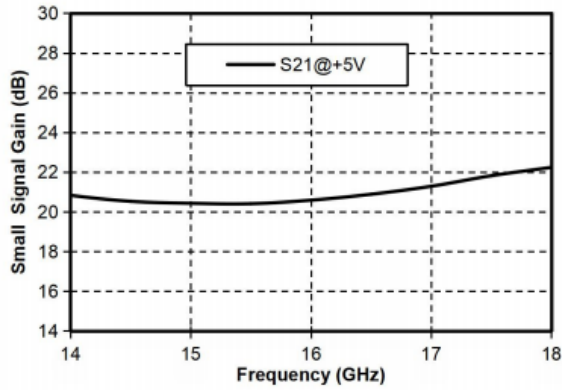

Electrical Specifications

TA = +25°C, Vd = +5V, Ids = 75mA

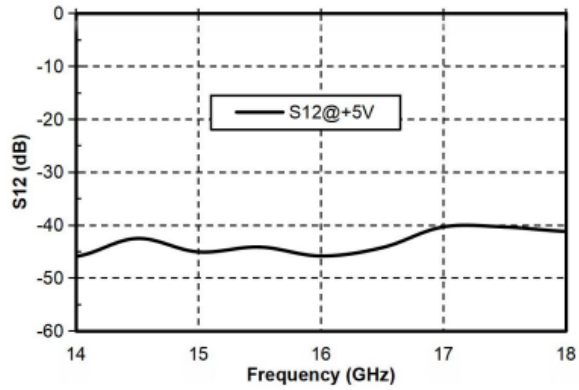
Parameters	Min.	Typ.	Max.	Units
Frequency		14-18		GHz
Small Signal Gain	-	21	-	dB
Gain Flatness		± 0.9		dB
P1dB	-	20	-	dBm
Psat	-	21	-	dBm
Input Return Loss	-	17		dB
Output Return Loss	-	16		dB
Quiescent Current		75		mA



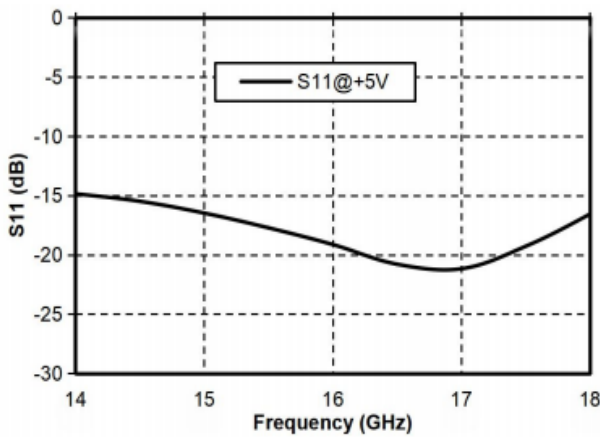
Gain vs. Frequency



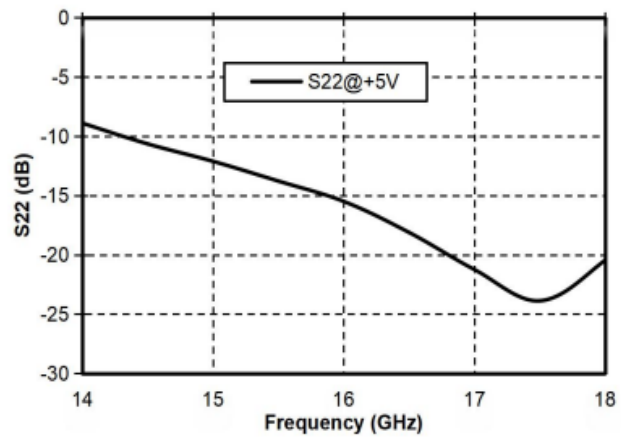
Reverse Isolation vs. Frequency



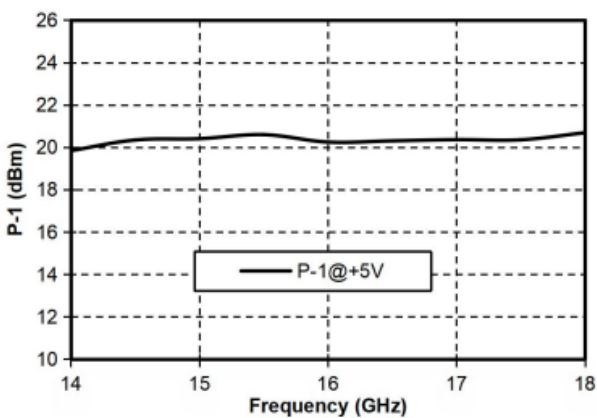
Input Return Loss vs. Frequency



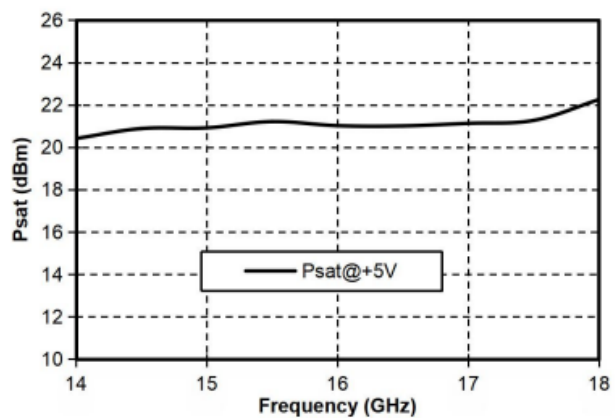
Output Return Loss vs. Frequency



P-1dB vs. Frequency

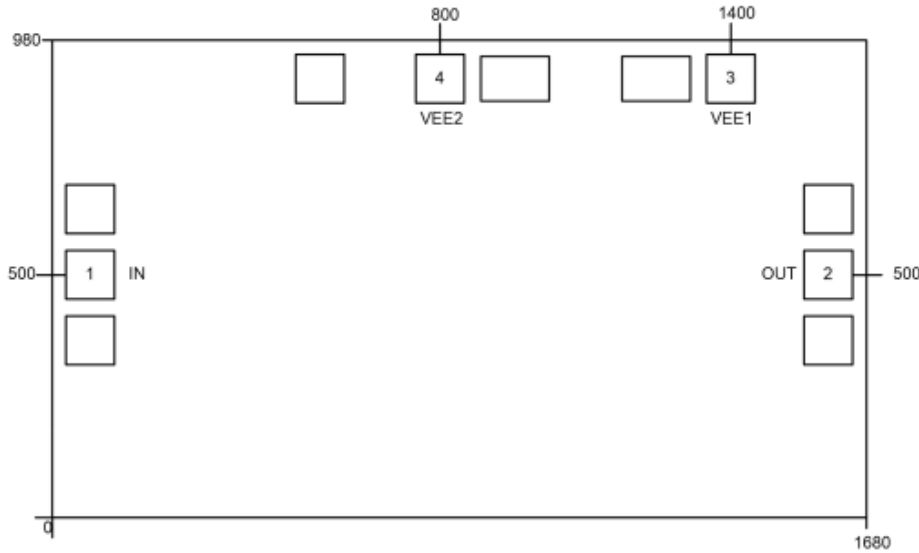


Psat vs. Frequency





Outline Drawing: All Dimensions in um

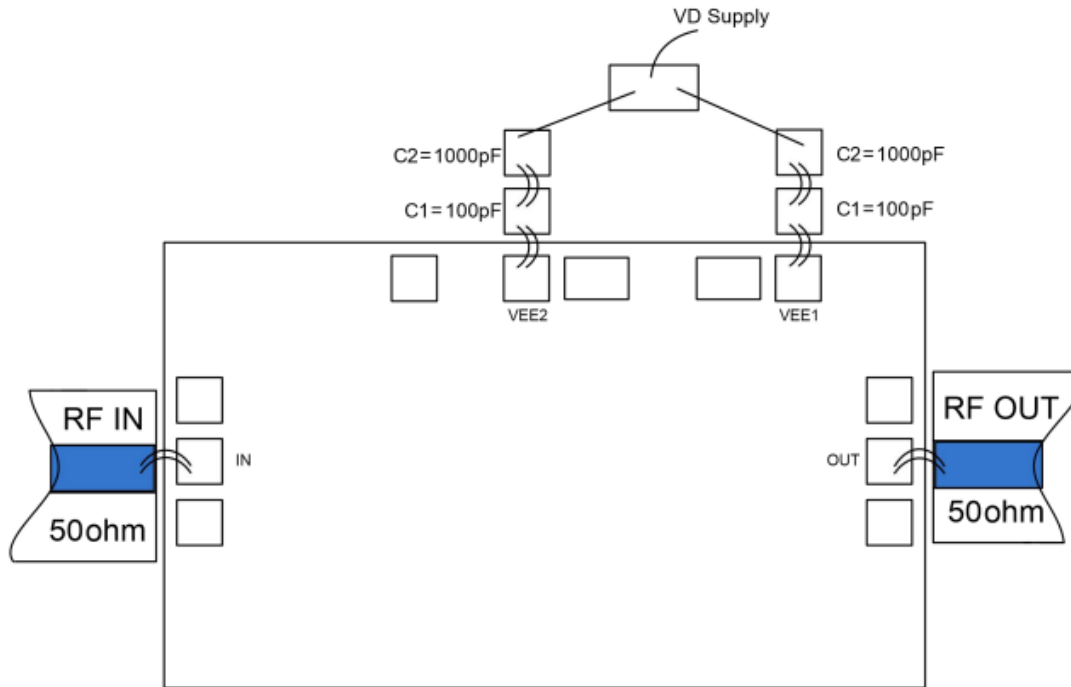


Pad Description

PAD	Function	Description
1	RF IN	RF signal input terminal, no blocking capacitor required
2	RF OUT	RF signal output terminal, no blocking capacitor required
3,4	VEE1,VEE2	Amplifier drain bias, connected to external 100pF ,1000pF bypass capacitor.
Die Bottom	GND	Die bottom must be connected to RF/DC ground



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