



### Driver Amplifier 8-16GHz

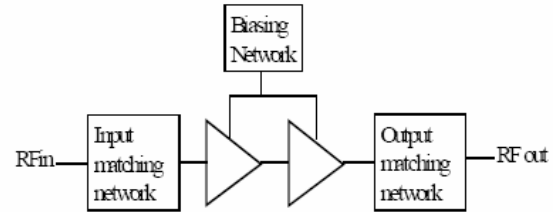
**RDAHFO1**

#### Description

The **RDAHFO1** is 8 to 16 GHz GaAs Enhancement mode p-HEMT distributed Driver Amplifier.

The driver amplifier can provide up to 20 dBm power output. The optimum performance of the chip can be achieved by some off chip matching. The part is biased with a single +5 V supply.

#### Functional Diagram



#### Applications

- Point to Point Radio
- Military Ku-Band
- Ku-Band Space
- VSAT

#### Key Features

- Broadband Amplifier
- High Performance
- Low Current, Low Cost

Conditions:  $V_{cc} = 5\text{ V}$  &  $T_A = 25\text{ }^\circ\text{C}$

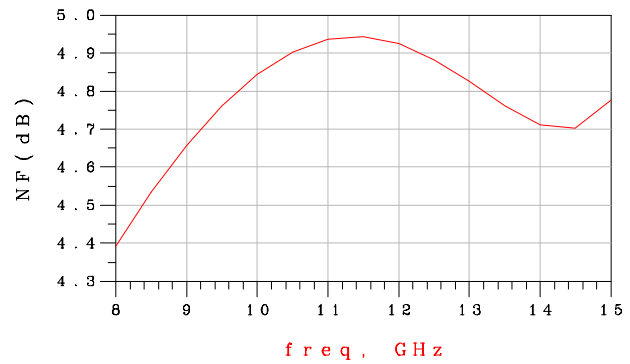
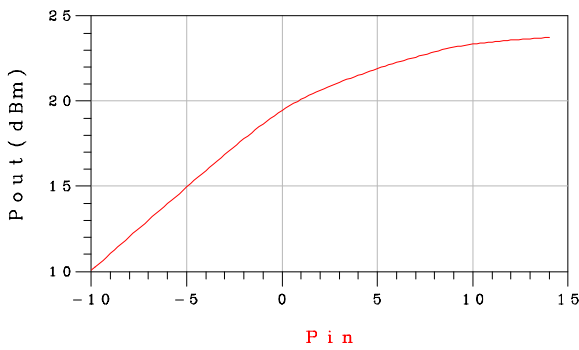
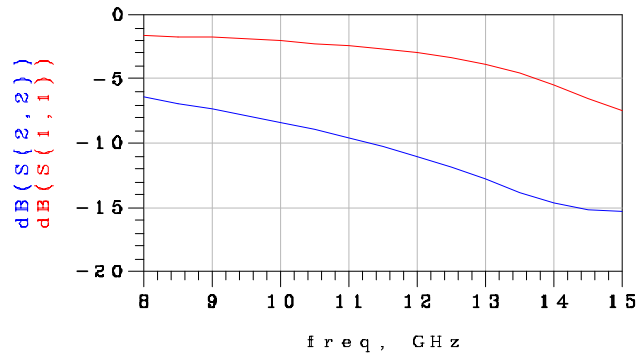
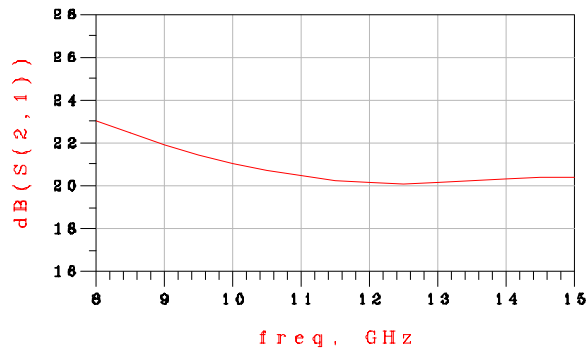
Parameter	Min	Typical	Max	Units
Frequency Range	8		16	GHz
Gain	20		23	dB
Noise Figure		4.7		dB
Power Output (P1dB)		20		dBm
Input Return Loss	3	5	8	dB
Output Return Loss	9	11	10.5	dB
Supply Current		111		mA
DC Voltage		5		V



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#### Simulated results



#### Layout

