



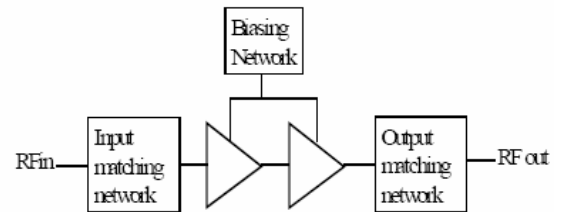
### 2-4GHz, 25dBm Driver Amplifier

RDA01

#### Description

The **RDA01** is 2.0 to 4.0 GHz GaAs Enhancement mode pseudomorphic high electron mobility transistors Driver Amplifier.

The driver amplifier can provide upto 25 dBm power output. The optimum performance of the chip can be achieved by some off chip matching. The part is biased with a single +3.3 V supply.



#### Applications

- IEEE 802.11 a/b/g WLAN
- WLAN MIMO system
- Cellular System
- ISM Band Systems

#### Key Features

- Broadband amplification
- Pout (P1 dB) is 25 dBm
- Highly Performance
- Small Size

#### Electrical Specification

Conditions: Vcc = 3.3 V & TA=25 °C

	Min	Typical	Max	Units
Frequency Range	2.0		4	GHz
Gain		27		dB
Power Output (P1dB)		25.2		dBm
Input Return Loss	6.5	5		dB
Output Return Loss		6.5		dB
Supply Voltage		3.3		V
Supply Current		199		mA

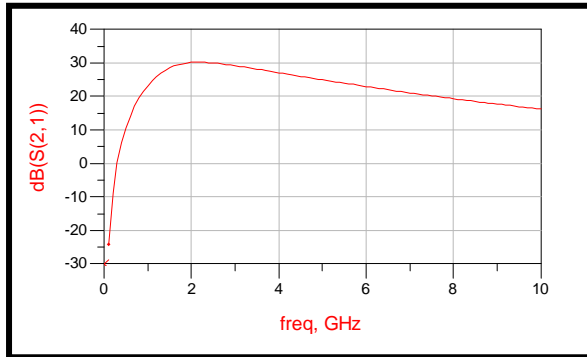


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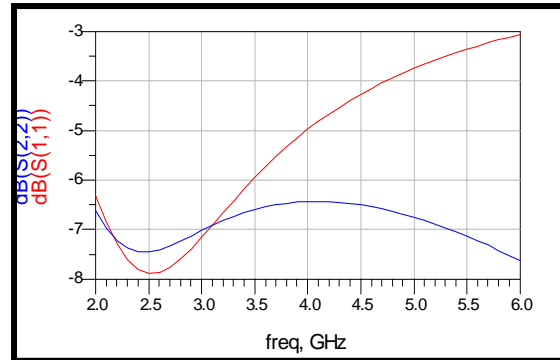
RDA01

### Simulated and Measured results

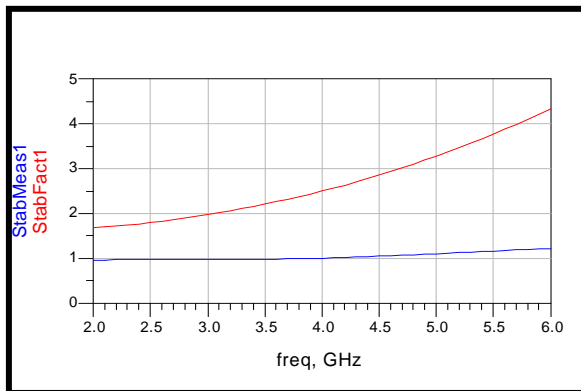
#### Gain Vs Freq



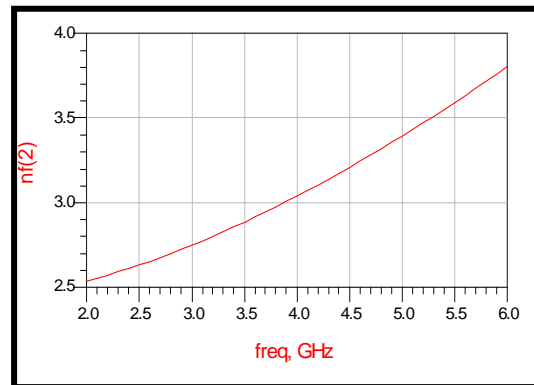
#### Input/Output Return loss



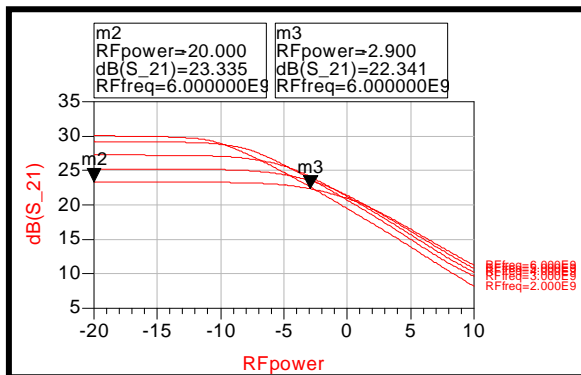
#### Stability over Frequency



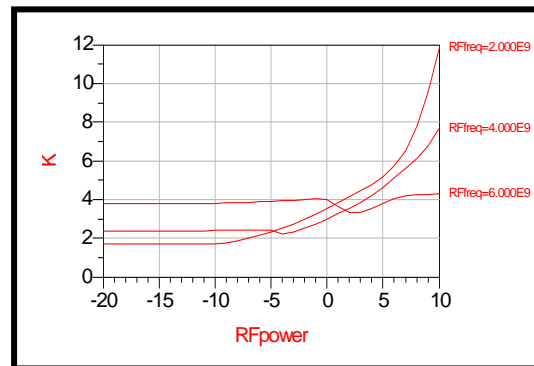
#### Noise Fig over Frequency



#### Gain over Power



#### Stability over Power





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Layout

