



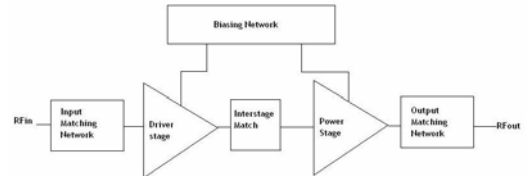
2Watts, 900MHz band Power Amplifier

RPA15

Description

The RPA11 is a 0.8 to 0.96 GHz high power, high efficiency GaAs Enhancement Mode pHEMT MMIC power amplifier. This MMIC power amplifier doesn't require any off chip components.

The device is designed for cellular system.



Applications

- Cellular System
- Base station
- ISM Band Systems

Key Features

- High Gain/Power
- High Performance
- Low Cost

Electrical Specification

Conditions: $V_{cc} = 12\text{ V}$ & $T_A = 25\text{ }^\circ\text{C}$

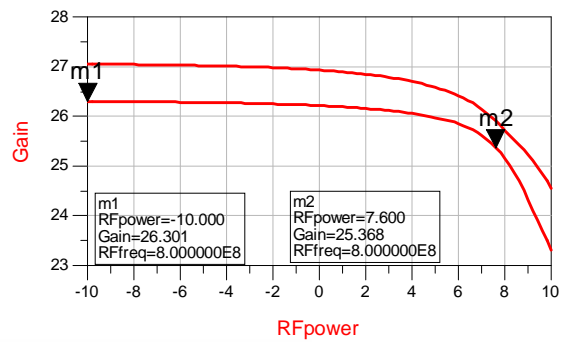
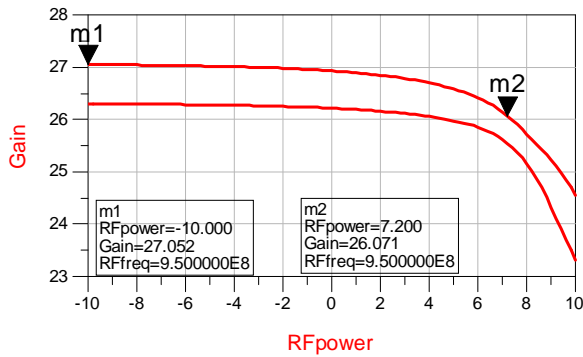
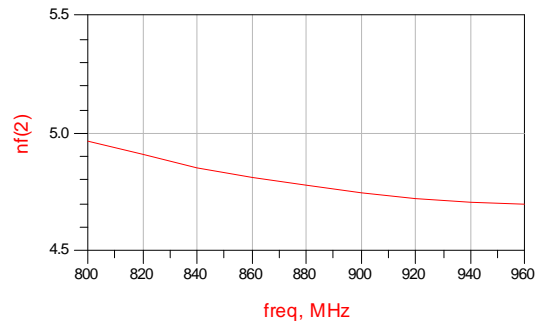
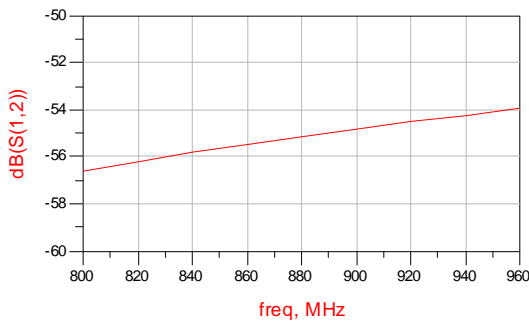
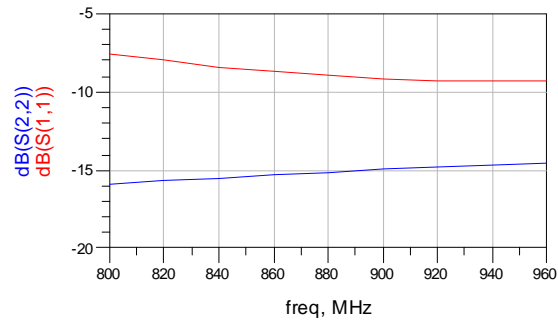
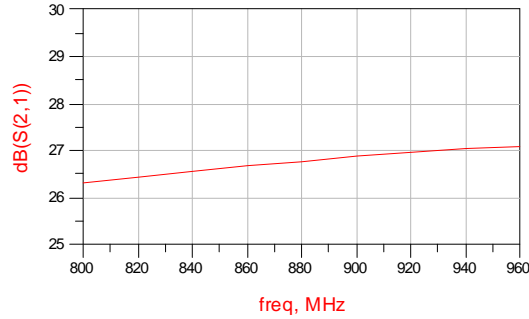
Parameter	Min	Typical	Max	Units
Frequency Range	0.8		0.96	GHz
Gain	26.3		27.1	dB
Power Output (P1dB)		33		dBm
Efficiency @ P1dB		25		%
OIP3		43		dBm
Input Return Loss		8		dB
Output Return Loss		10		dB
Supply Current		668		mA
DC Voltage		12		V



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Simulated Results

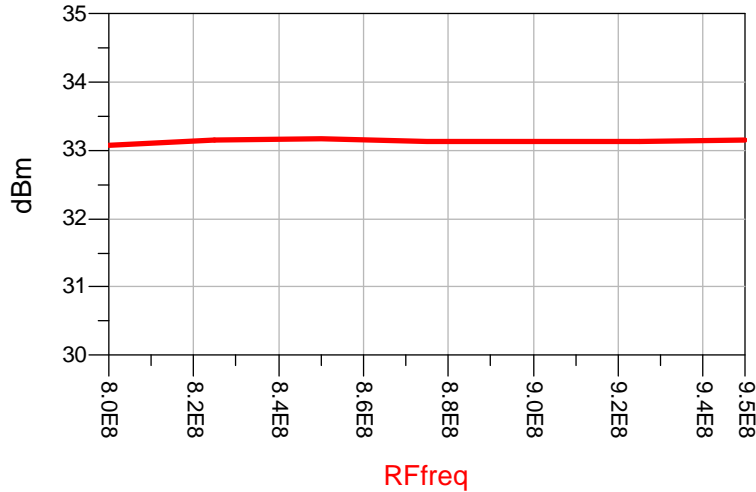




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P1dB Power Output Over Frequency



OIP3 over frequency at 30dBm output power tone, 1MHz spacing

OIP3 Over Frequency

