



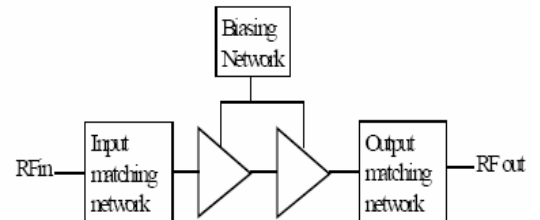
Power Amplifier

RPA14

Description

The RPA14 is a 3 to 4.5 GHz high efficiency GaAs Enhancement mode pseudomorphic high electron mobility transistor MMIC Power Amplifier.

The part is matched at the input and output so no additional RF matching components are required. The PA exhibits unparalleled linearity and efficiency for this Band. The part is biased by a single 5V supply.



Applications

- WiMax Transceivers
- Broadband Wireless Application
- Mobile Applications

Key Features

- High Gain, High Performance
- High Efficiency
- Small Die Area

Electrical Specification

Conditions: Vcc = 5V & TA=25 °C

	Min	Typical	Max	Units
Frequency	3		4.5	GHz
Gain		19.5		dB
P1dB out		23.9		dBm
Input Return Loss		13.8		dB
Output Return Loss		20.2		dB
Supply Voltage		5		Volt
Supply Current		145		mA
Efficiency		33		%



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Simulated results

