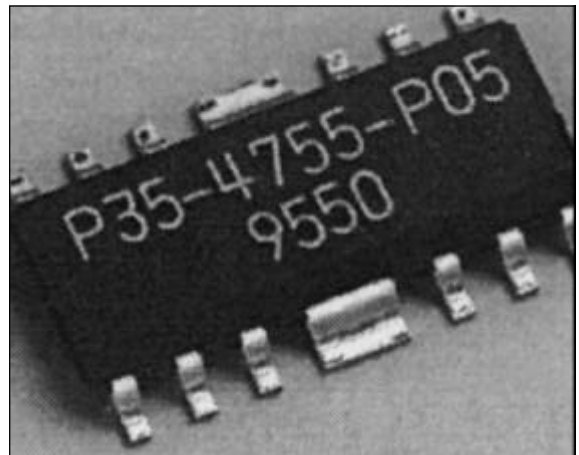


Amplifier/Switch Front End MMIC for 1.7 - 2.7GHz Wireless Applications



Features

- Low receive current consumption
- Integrated RF routing switch
- Requires no external matching, RF coupling or biasing components
- 21dBm Output power
- PCMCIA compatible surface mount plastic package

Description

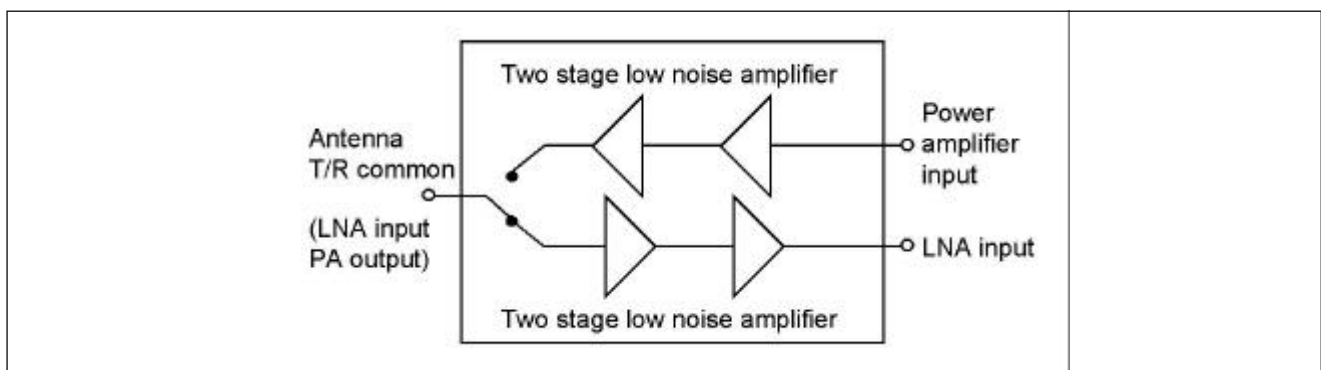
This Gallium Arsenide Monolithic Integrated Circuit (GaAs MMIC) contains a two stage receive amplifier, a two stage transmit power amplifier and a Tx/Rx switch.

Typical Chip Performance @ 2.4GHz (25°C)

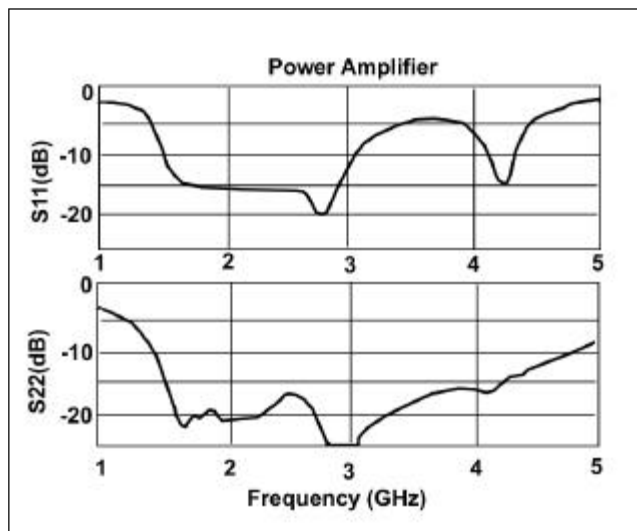
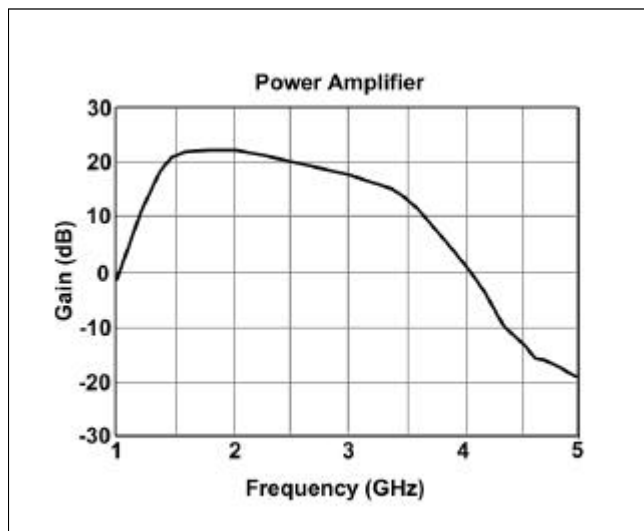
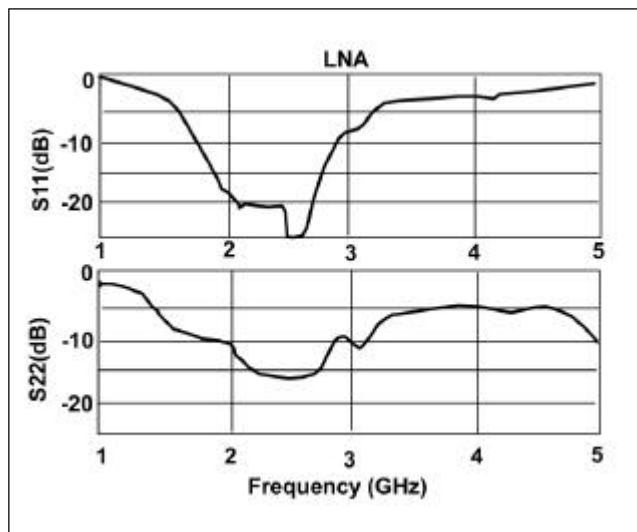
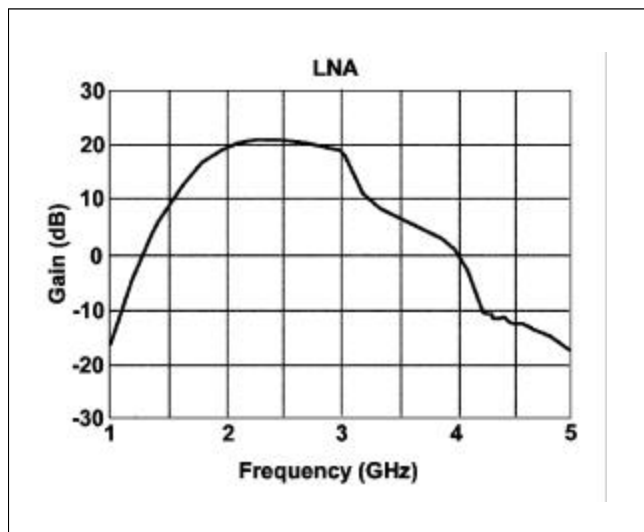
Receive		Transmit	
Gain (dB)	21	Gain (dB)	22
SSB noise figure (dB)	3.7	P _{-1dB} *(dBm)	19
Current consumption (mA)		Current consumption (mA)	
+5V supply (VDD)	11	+5V supply (VDD)	135
-5V supply (Vgg)	<0.2	-5V supply (Vgg)	<0.5
Input return loss (dB)	20	Input return loss (dB)	17
Output return loss (dB)	18	Output return loss (dB)	17

*Output power at which gain compresses by 1dB

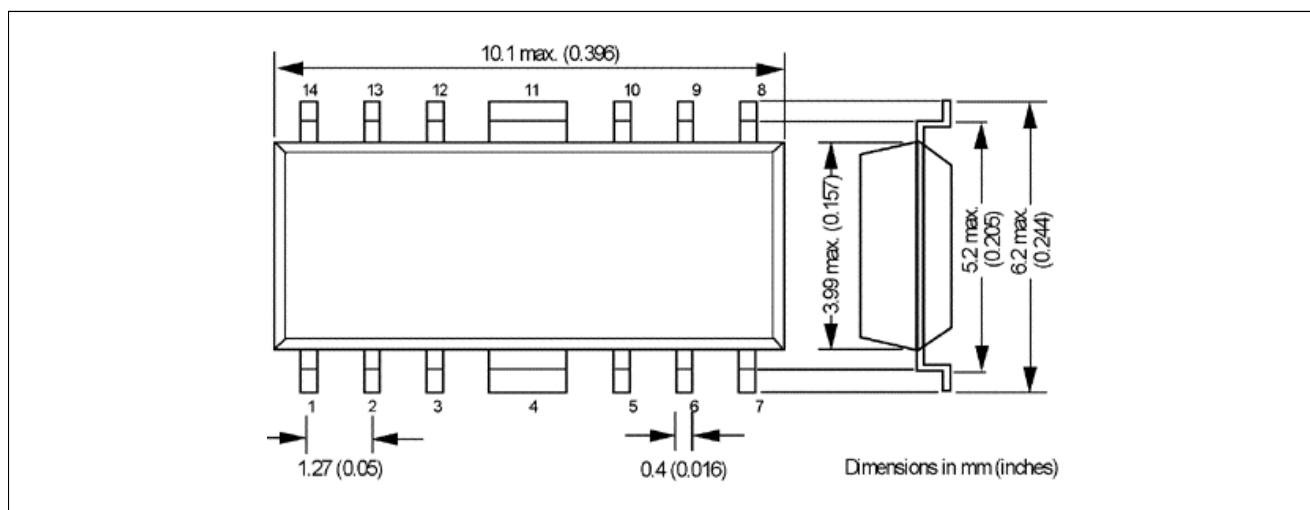
Functional Block Diagram



Typical Performance P35-4755-P05



Pin Details



Pin Details

Pin	Function
1	LNA out
2	GND
3	Vdd Rx Amp'
4	GND
5	Rx Control
6	GND
7	LNA in Pa out
8	Tx Control
9	GND
10	Vdd Tx Amp'
11	GND
12	Vgg
13	GND
14	PA/in

Switching Truth Table

Receive Control	Transmit Control	Input	Output	Function
0V	-5V	Pin 7	Pin 1	Receive
-5V	0V	Pin 14	Pin 7	Transmit
-5V	-5V	N/A	N/A	Standby

Ordering Information: P35-4755-P05 SOIC Package

The data and product specifications are subject to change without notice. These devices should not be used for device qualification and production without prior notice.

463/SM/00114/200 Issue 1/2



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