

ASC314

Features: (typical values)

- High IP3 +52.0 dBm.
- Medium Gain + 23 dB.
- High Output Power +40.0 dBm.
- Low cost
- No external components required

2300-2400 MHz Ultra Linear 10 Watts Amplifier



Maximum Ratings

Storage Temperature -40°C to +125°C
 DC Voltage +14 volts
 RF Input Power +5 dBm.
 Case Temperature +95°C

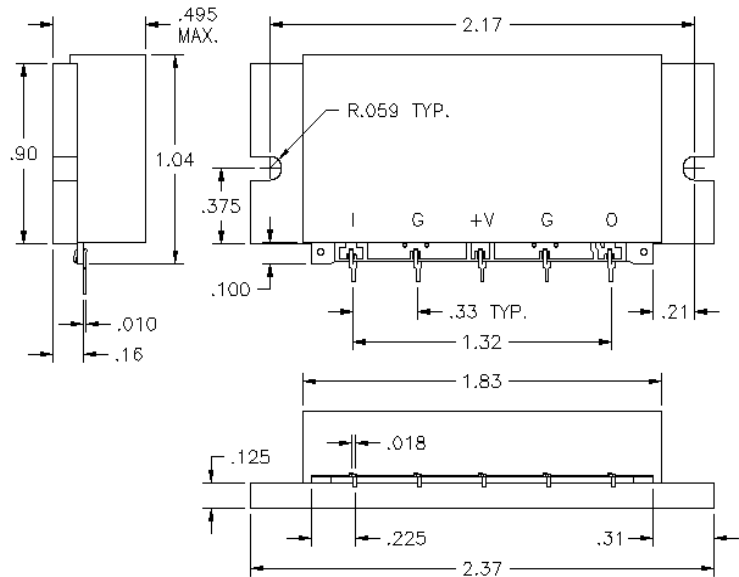
Electrical Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		2300	2400	MHz.
Gain	23.0	22.0		dB.
Gain Flatness	±0.4		+/-1.0	dB.
Reverse Isolation	45			dB.
Pout @ 1dB Comp	40.0	39.0		dBm.
Noise Figure	3.0		5.0	dB.
VSWR (Input/Output)	1.8/1.9		2:1/2.5:1	dBm.
IP3 (two-tone)	+52.0	+50.0		
Supply Required	+12/2000		+12/2200	v/mA.

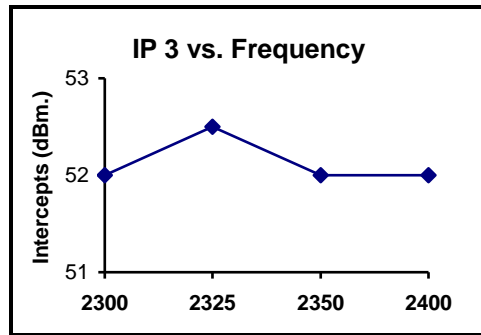
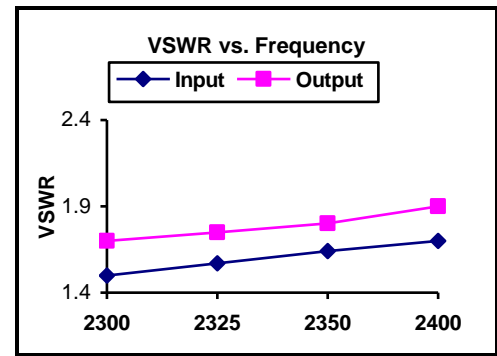
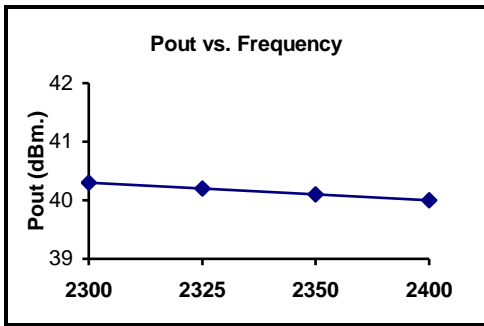
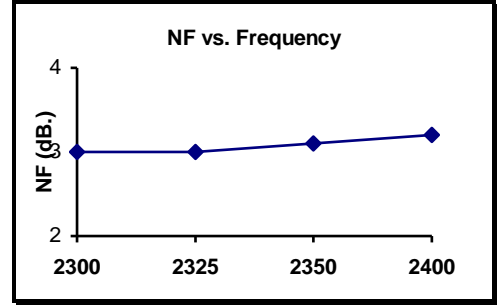
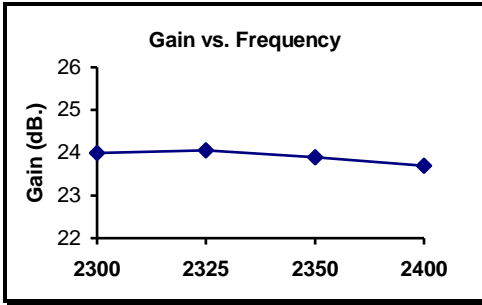
IP3 measured with 2 tones @+30dBm. per tone
 Min and max values from 0 to 70 degrees C
Require 10uF at Vcc line.

Pin Configuration

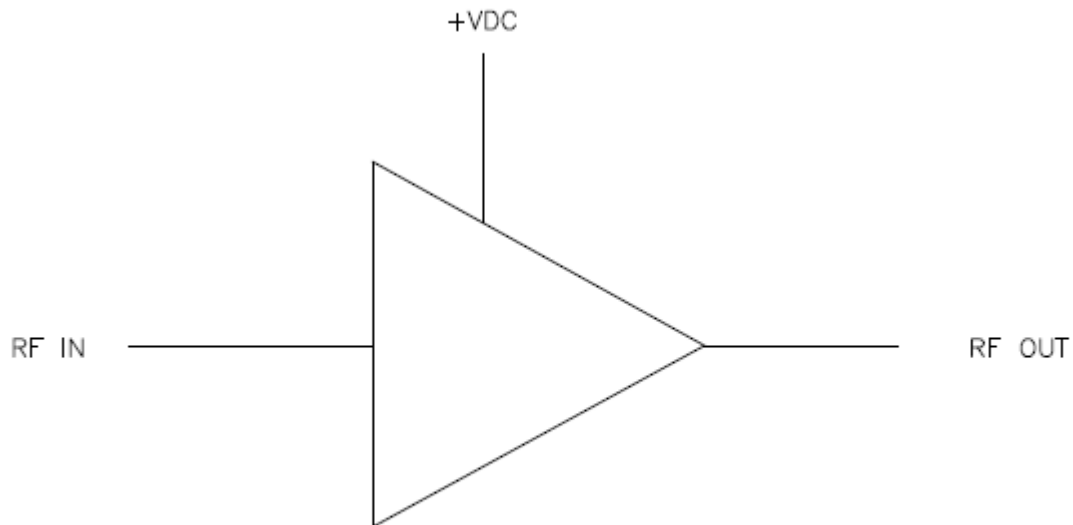
Pin #.....	Description
1.....	Input
2,4.....	Ground
3.....	Vcc
5.....	Output



Typical Performance Curves @ 25°C



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED