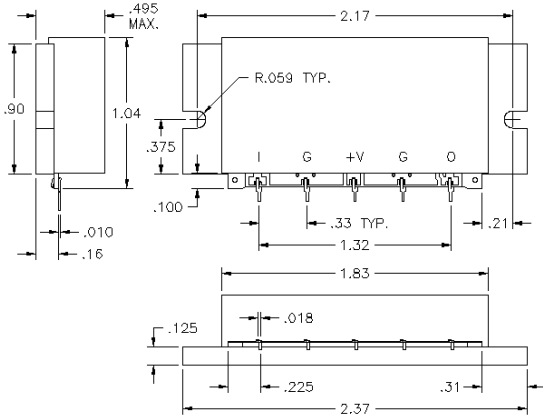


# ASC310 800-960 MHz. Ultra Linear 10 Watt Amplifier



## Features: (typical values)

- High IP3 ..... +53.0 dBm.
- Low NF ..... 2.0 dB.
- High Output Power ..... +40.5 dBm.
- Low Cost
- No external components required

## Specifications (Referenced to 50 ohms)

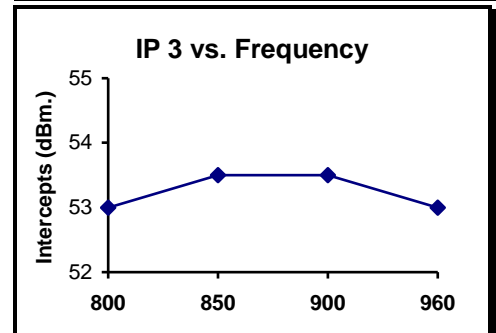
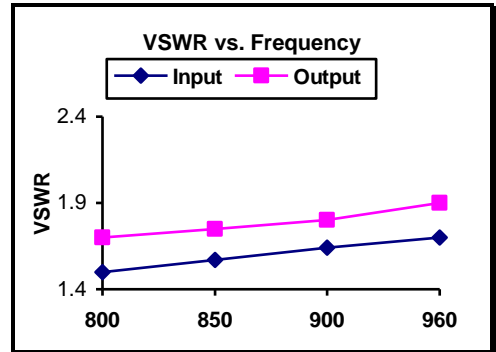
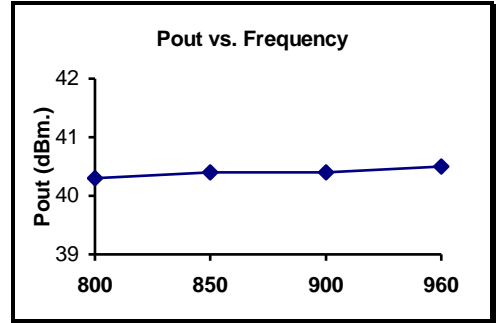
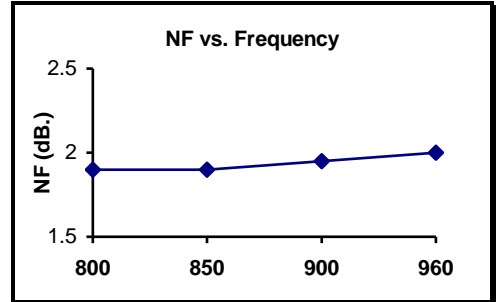
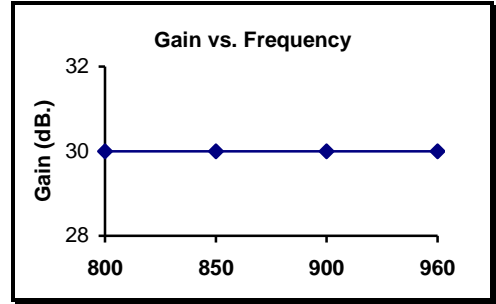
Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		800	960	MHz.
Gain	30.0	28.0		dB.
Gain Flatness	±0.2		±1.0	dB.
Reverse Isolation	45			dB.
Pout @ 1dB Comp.	40.5	39.0		dBm.
Noise Figure	2.0		3.5	dB.
VSWR (Input/Output)	1.6/1.9		2:1/2.5:1	
IP3 (two tone)	+53.0	+50.0		dBm.
Supply Req'd	+12/2000		+12/2200	v./mA.

IP3 measured with 2 tones @+30 dBm. per tone  
Min and max values from 0 to 85 degrees C

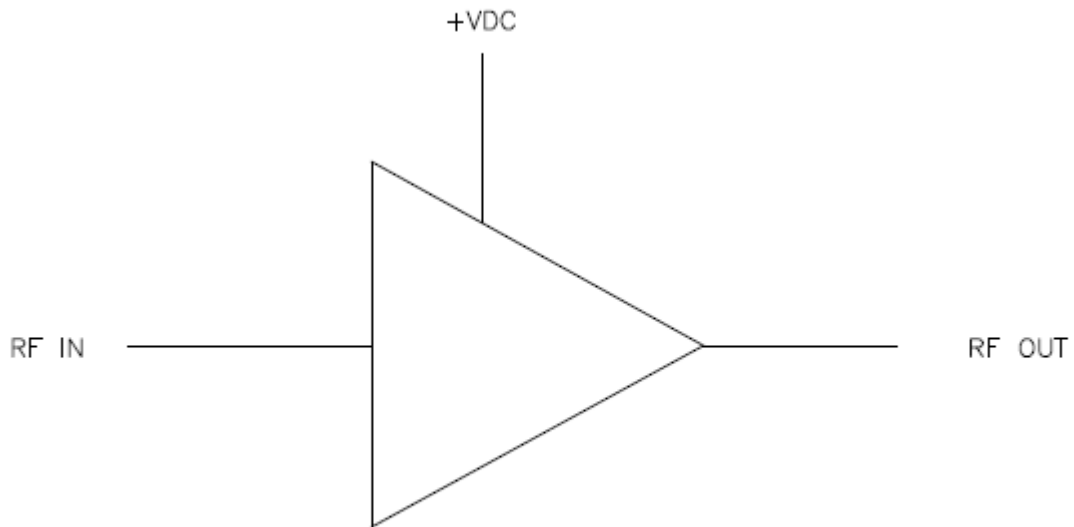
## Maximum Ratings

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

## Typical Performance Curves @ 25°C



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED