

ASC114C

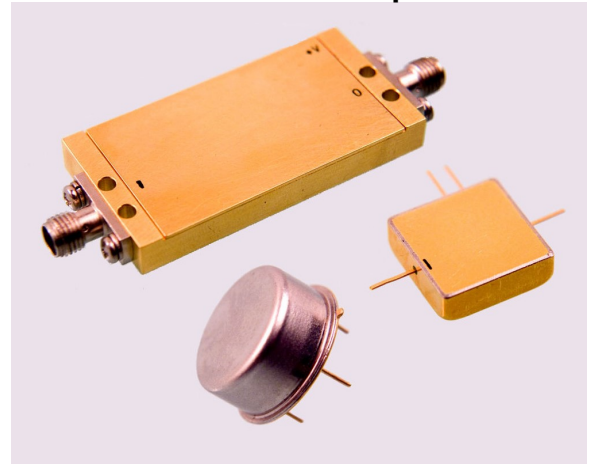
Features: (typical values)

- Very low NF 1.5 dB.
- High Gain 27.0 dB.
- High Reverse Isolation 45 dB.
- High Output Power +25.0 dBm.
- TO-8 and Hermetic Package (Surface Mount) available
- No external exponents required

Maximum Ratings

Storage Temperature -62°C to +125°C
 DC Voltage +15 volts
 RF Input Power +10 dBm.
 Case Temperature +95°C

1200-1600 MHz Ultra-Linear Amplifier

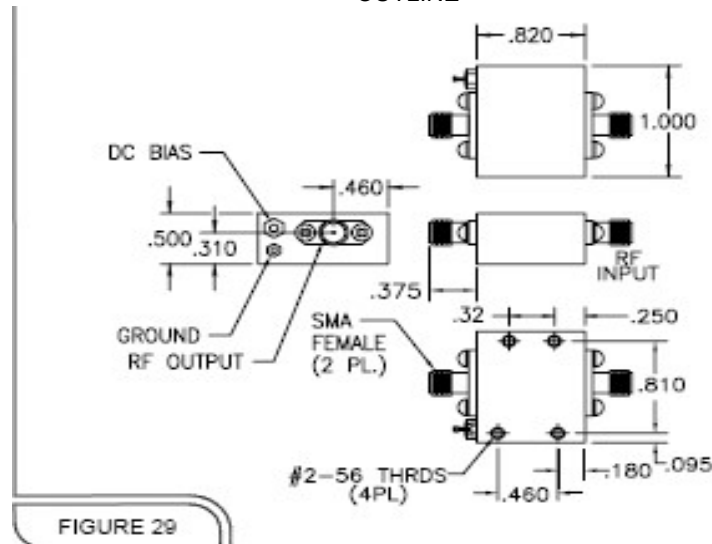


Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		1200	1600	MHz.
Gain	26.5	24.0		dB.
Gain Flatness	±0.35		±1.0	dB.
Gain Var. over temp	22.0			ΔdB.
Pout @ 1dB Comp	+24.5	+23.5		dBm.
Noise Figure	1.5		2.5	dB.
Reverse Isolation	45.0			dB.
IP ₃ /IP ₂ (two-tone)	36/50	33/45		dBm.
HIP ₂ (2 nd harm.)	55			dBm.
VSWR (Input/Output)	1.5:1		1.8:1	
Supply Required	+15/146		+15/158	v/mA.

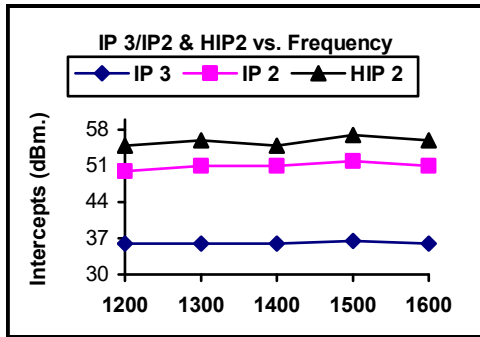
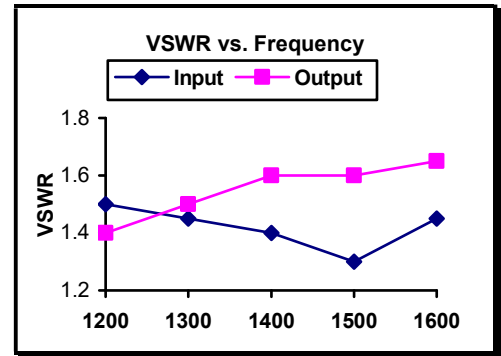
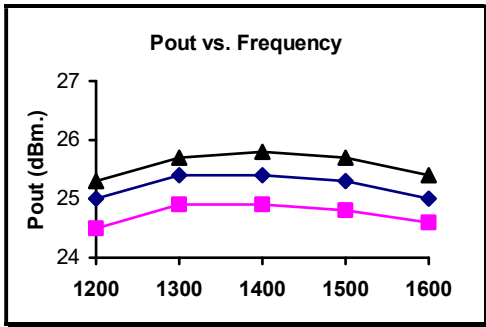
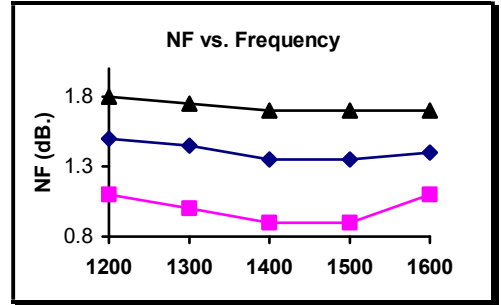
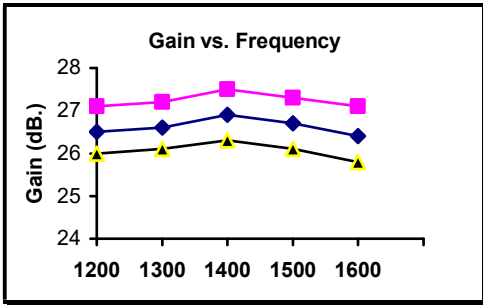
Min. and max. values are from -55°C to +85°C

OUTLINE

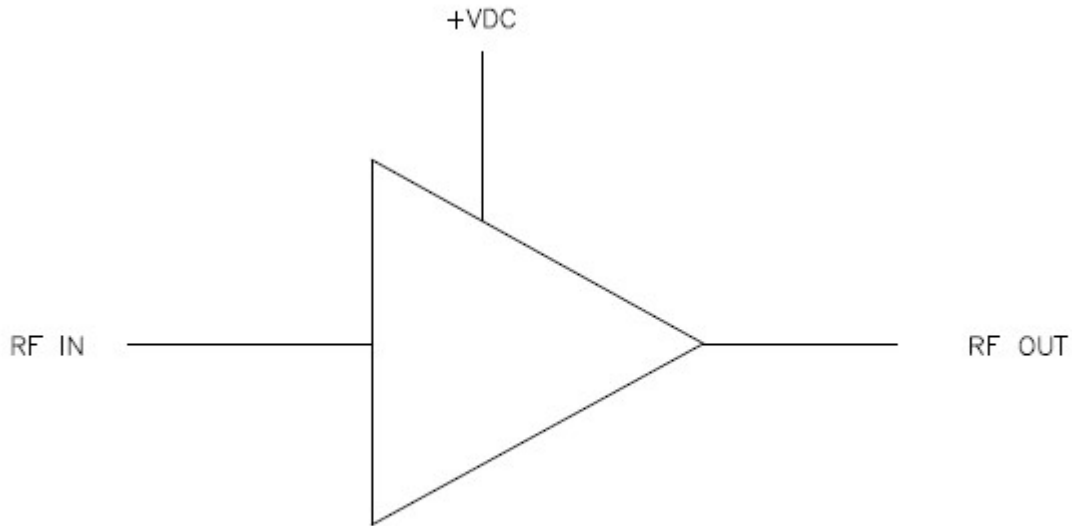


Typical Performance Curves

■ --55°C ◆ --+25°C ▲ --+85°C



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED