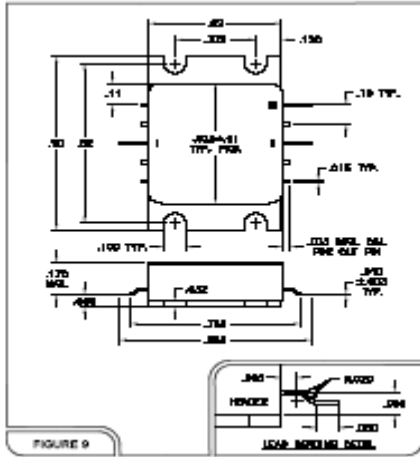
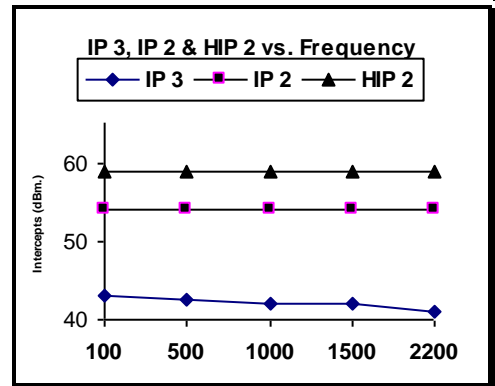
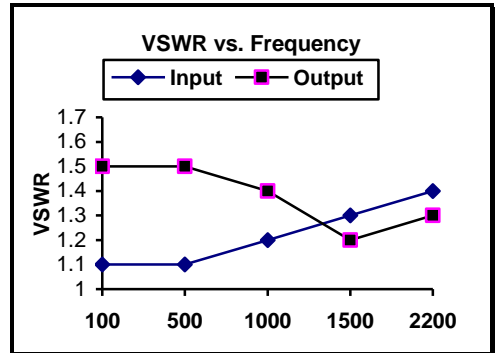
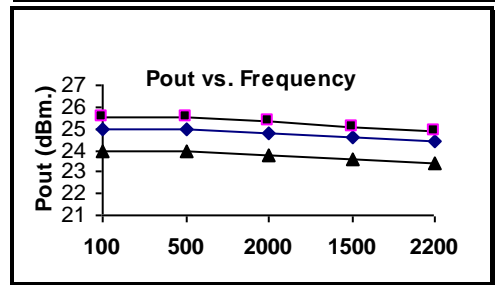
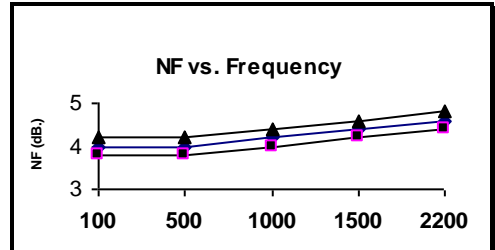
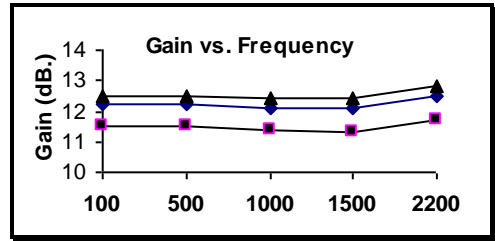


ASC227C 100-2200MHz. Wide Band Amplifier



Typical Performance Curves

- ■ - 0°C - ◆ - +25°C - ▲ - +85°C



Features: (typical values)

- Wideband 100-2200 MHz.
- High Second Order IP₂ +54.0 dBm.
- High Third Order IP₃ +42.0 dBm.
- No external components required

Specifications (Referenced to 50 ohms)

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		100	2200	MHz.
Gain	12.0	10.0		dB.
Gain Flatness	±0.3		±0.5	dB.
Gain Var. vs Temp.	±0.5			ΔdB.
Pout @ 1dBComp.	+25	+22		dBm.
Noise Figure	4.0		5.0	dB.
IP ₃ /IP ₂ (two-tone)*	42/54	40/52		dBm.
HIP ₂ (2 nd harm)	59			dBm
VSWR In	1.35:1		1.7:1	Ratio
VSWR Out	1.5:1		1.7:1	Ratio
Supply Req'd	+15/200		+15/250	v/mA.

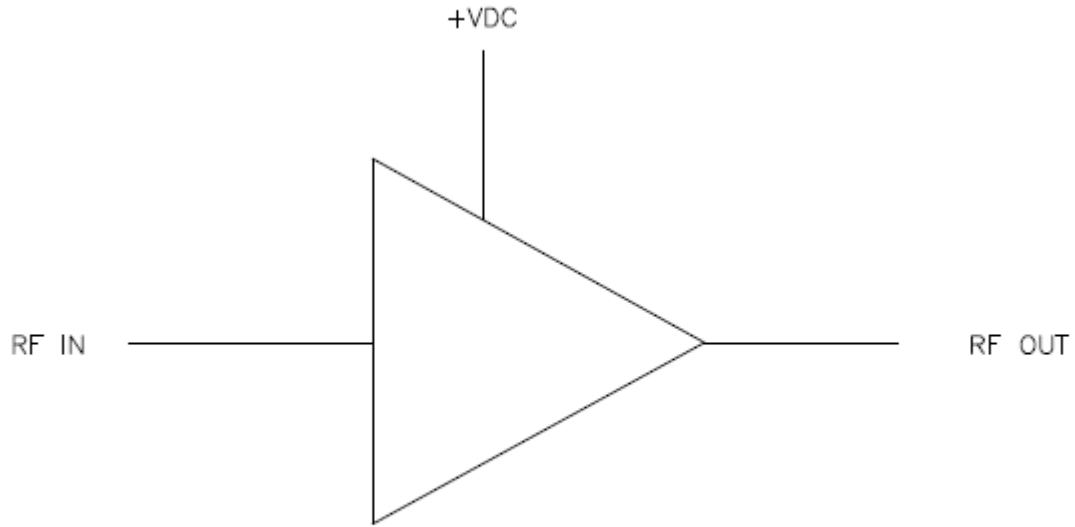
Min. and max. values are from 0°C to +85°C

*IP₃ and IP₂ are in band output intercept points

Maximum Ratings

Storage Temperature -62°C to +125°C
 DC Voltage +17 volts
 RF Input Power +20.0 dBm.
 Case Temperature +95°C

FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED