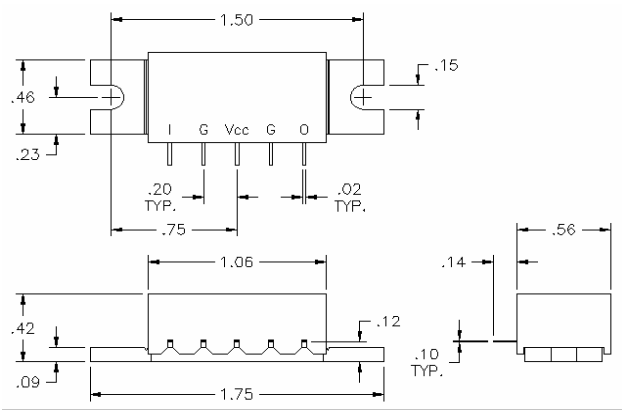
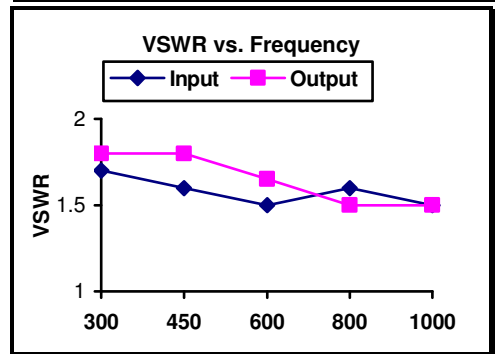
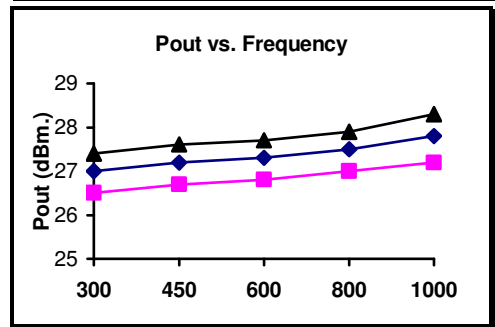
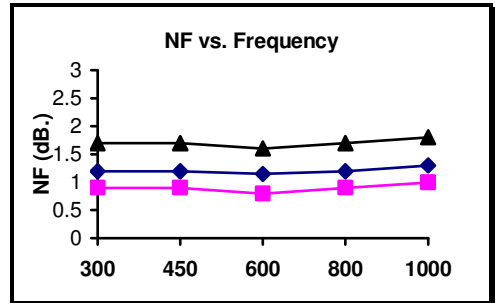
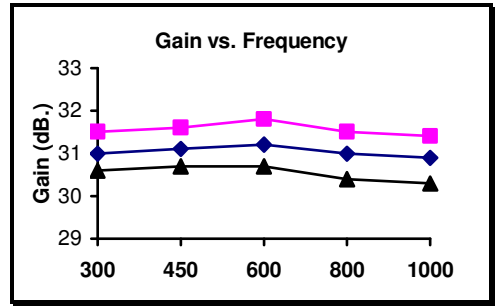


# ASC102 300-1000 MHz Low Noise Amplifier



## Typical Performance Curves

- ■ -55°C - ◆ -+25°C - ▲ -+85°C



### Features: (typical values)

- Low Noise Figure ..... 1.2dB.
- High Output Power ..... +27.0 dBm.
- High IP3 ..... + 43dBm.
- Low Cost

### Specifications (Referenced to 50 ohms)

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		300	1000	MHz.
Gain	31.0	28.0		dB.
Gain Flatness	±0.3		±0.5	dB.
Gain Var. over temp.	1.0			ΔdB.
Pout @ 1dB. Comp.	+27.0	+25.0		dBm.
Noise Figure	1.2		2.0	dB.
Reverse Isolation	35.0			dB.
IP <sub>3</sub> (two tone)*	+43.0	+40.0		dBm.
VSWR In/Out	1.6:1		2.0:1	
Supply Req'd	+15/180		+15/240	v./m A.

Min. and max. values are from -40°C to +85°C

\*IP3 is an in band output intercept point @ +10 dBm per tone

### Maximum Ratings

- Storage Temperature ..... -40°C to +85°C
- DC Voltage ..... +18 volts
- RF Input Power ..... +5.0 dBm.
- Case Temperature ..... +95°C