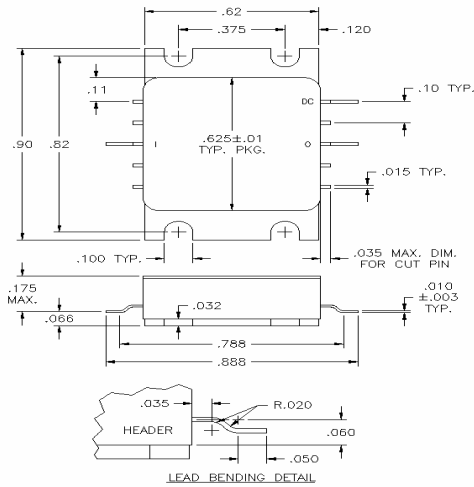
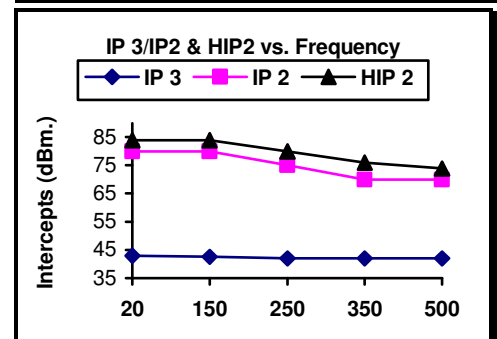
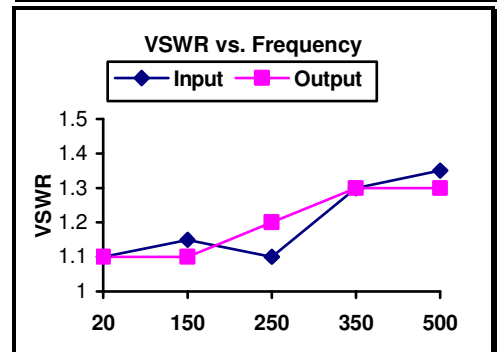
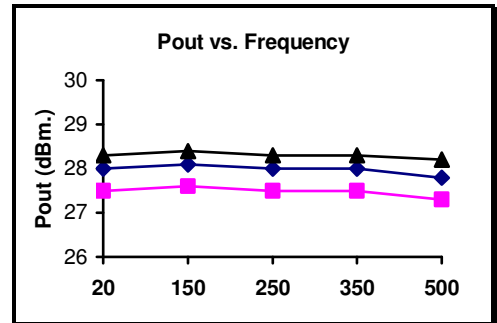
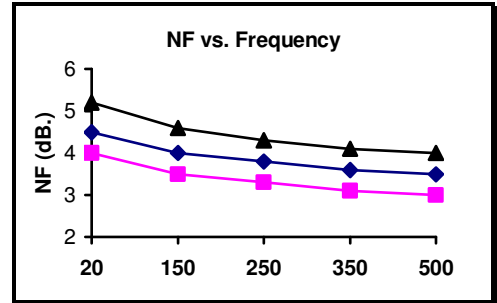
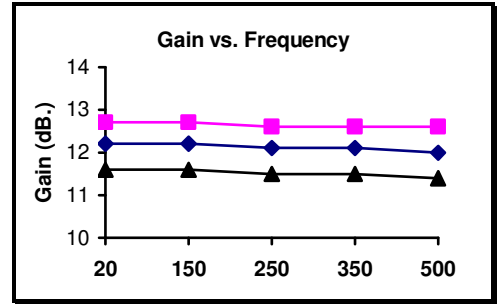


# ASC400 20-500 MHz. Push Pull Amplifier



## Typical Performance Curves

- ■ -55°C - ◆ -25°C - ▲ +85°C



### Features: (typical values)

- Low Distortion
- High Second Order IP2 .....+80.0 dBm.
- High Third Order IP3 .....+42.0 dBm.
- Hermetic Package (Surface Mount available)

### Specifications (Referenced to 50 ohms)

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		20	500	MHz.
Gain	12	11.0		dB.
Gain Flatness	±0.3		±0.8	dB.
Gain Var. over temp.	0.7			ΔdB.
Pout @ 1dB. Comp.	+28	+25		dBm.
Noise Figure	4.5		6.0	dB.
Reverse Isolation	18.0			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone)*	42/80	38/60		dBm.
HIP <sub>2</sub> (2 <sup>nd</sup> harm.)	85	65		dBm.
VSWR In/Out	1.35:1		1.5:1	
Supply Req'd	+15/230		+15/250	v/mA.

Min. and max. values are from -55°C to +85°C  
 \*IP<sub>3</sub> and IP<sub>2</sub> are in band output intercept points

### Maximum Ratings

Storage Temperature ..... -62°C to +125°C  
 DC Voltage ..... +17 volts  
 RF Input Power ..... +15.0 dBm.  
 Case Temperature ..... +95°C