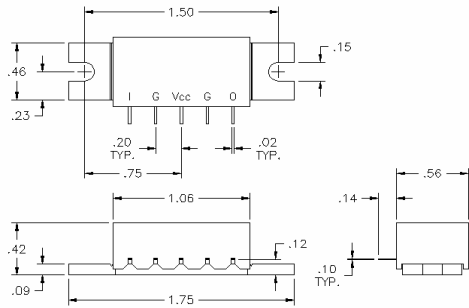


**ASC106**

**800-960 MHz.**

**Typical Performance Curves**

- ■ -0°C    -◆- +25°C    -▲- +85°C



Pin 1=RF, Pin 2=Ground, Pin 3=DC, Pin 4=Ground, Pin 5=RF Out

**Features: (typical values)**

- High Gain .....31.0 dB.
- Ultra Low Noise Figure .....0.9 dB.
- Excellent Third Order IP3 .....45.0 dBm.
- Low Cost

**Specifications (Referenced to 50 ohms)**

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		800	960	MHz.
Gain	31.0	29.0		dB.
Gain Flatness	±0.2		±0.5	dB.
Gain Var. over temp.	1.5			P/PΔdB.
Pout @ 1dB. Comp.	+27.5	+25.0		dBm.
Noise Figure	0.9		1.6	dB.
Reverse Isolation	45.0			dB.
IP <sub>3</sub> / IP <sub>2</sub> (two-tone)*	45	40		dBm.
HIP2 (2 <sup>nd</sup> harm.)	58	54		dBm.
VSWR In/Out	1.4:1		1.8:1	
Supply Req'd	+15/200		+15/250	v/mA.

Min. and max. values are from 0 to +85°C  
\* +15 dBm. 2 tone signal

**Maximum Ratings**

Storage Temperature ..... -40°C to +125°C  
DC Voltage ..... +17 volts  
RF Input Power ..... +25 dBm.  
Case Temperature ..... +95°C

