

# ASC231C

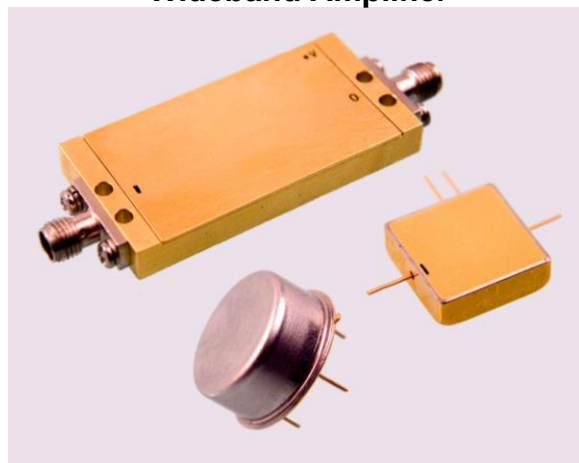
## 20-3000 MHz Wideband Amplifier

### Features: (typical values)

- Wideband ..... 20-3000 MHz.
- High Second Order IP2 ..... +55.0 dBm.
- High Third Order IP3 ..... +40.0 dBm.
- Moderate Gain..... +16 dB.
- Moderate Noise ..... + 8.0 dB.
- No external components required

### Maximum Ratings

Storage Temperature ..... -55°C to +125°C  
 DC Voltage ..... +17 volts  
 RF Input Power ..... +15.0 dBm.  
 Case Temperature ..... +95°C

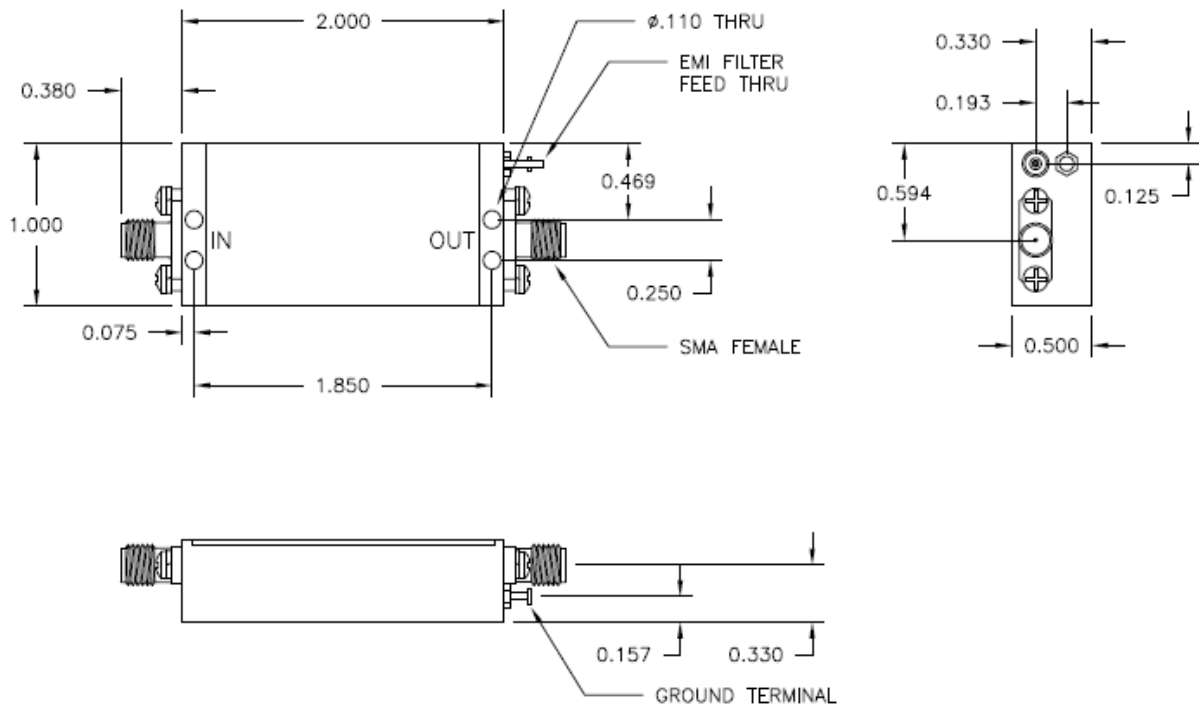


Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency	20/3000	20	3000	MHz.
Gain	16	14		dB.
Gain Flatness	±0.3		±1.0	dB.
Gain Var. over temp.	0.5			ΔdB.
Pout @ 1dB Comp	+25	+23		dBm.
Noise Figure 20-100 MHz/ 100-3000 MHz	8.0/5.0		10.0 / 6.0	dB.
Reverse Isolation	30			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two tone)*	40/55	35/45		dBm.
HIP2 (2 <sup>nd</sup> harm.)	60			dBm.
VSWR In/Out	1.5:1		2.0:1	Ratio
Supply Required	+15/350		+15V/400	v/mA

Min. and max. values are from 0°C to +85°C  
 \*IP<sub>3</sub> and IP<sub>2</sub> are in band output intercept points

# OUTLINE



FUNCTIONAL BLOCK DIAGRAM

