

# ASC211C

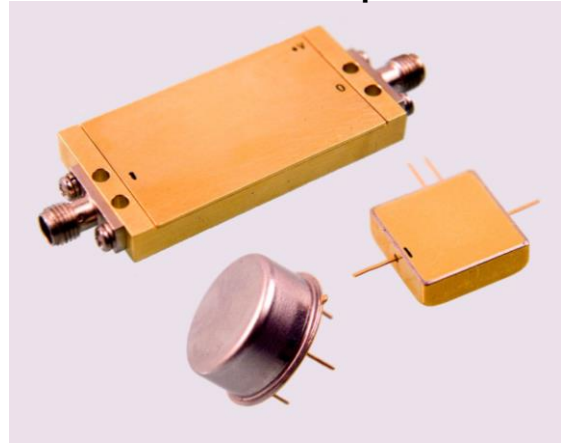
**Features: (typical values)**

- Very high IP3 ..... +37 dBm.
- High P1dB ..... 24.0 dBm.
- Low NF @ 100-2000mhz ..... 3.0 dB.
- Super low cost
- No external components required

**Maximum Ratings**

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

**10-2000 MHz  
Wideband Amplifier**

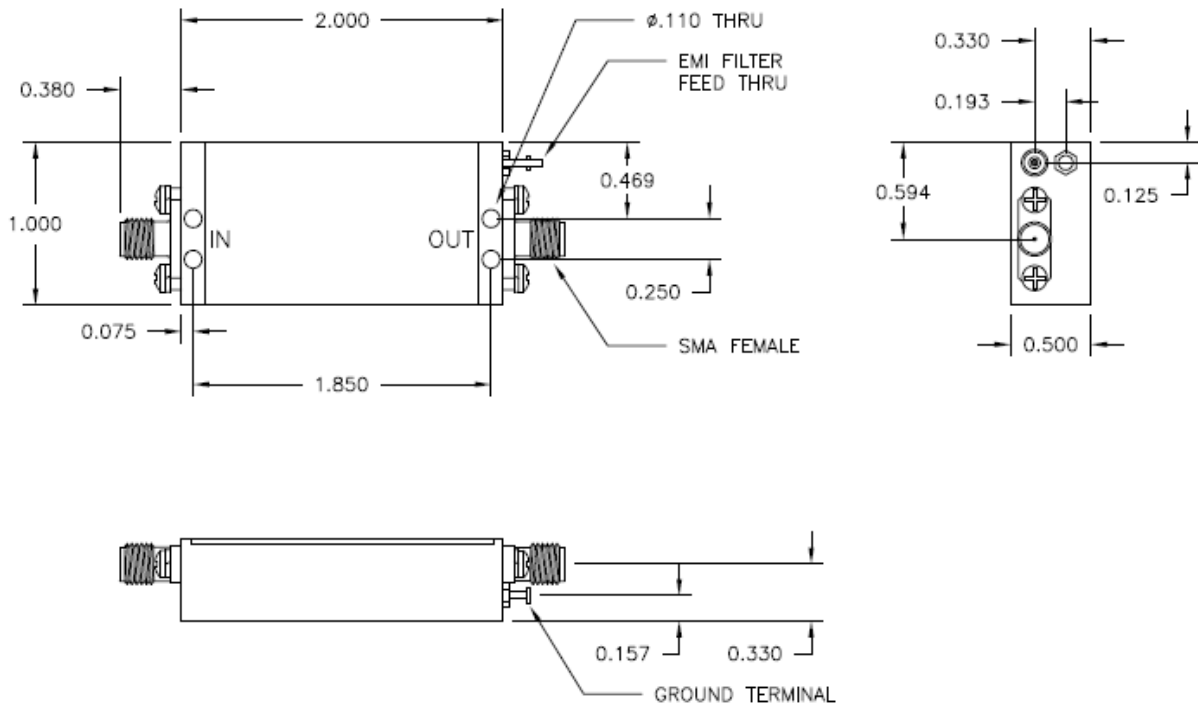


Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		10	2000	MHz.
Gain	12.0	11.0		dB.
Gain Flatness	±0.5		±0.8	dB.
Gain Var. over temp	0.7			ΔdB.
Pout @ 1dB Comp	+24.5	+22.0		dBm.
NF 100-2000mhz	3.0		5.5	dB.
Reverse Isolation	16.0			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone)	37/46	33/40		dBm.
HIP2 (2 <sup>nd</sup> harm.)	52.0			dBm.
VSWR In/Out	1.7:1		2.0:1	
Supply Required	+15/120		+15/140	v/mA.

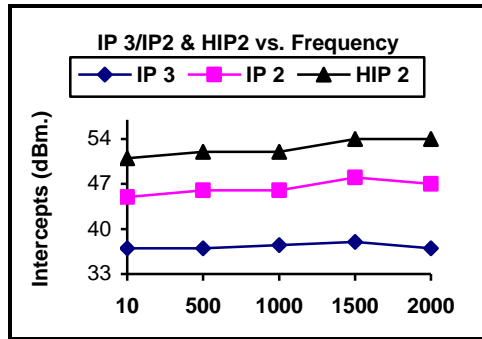
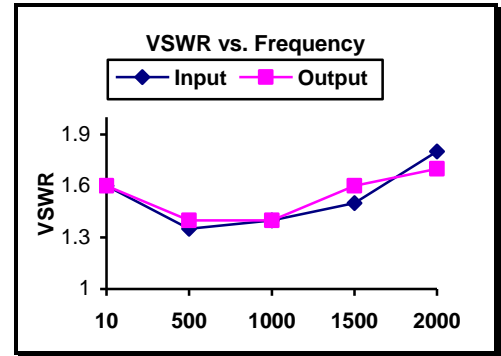
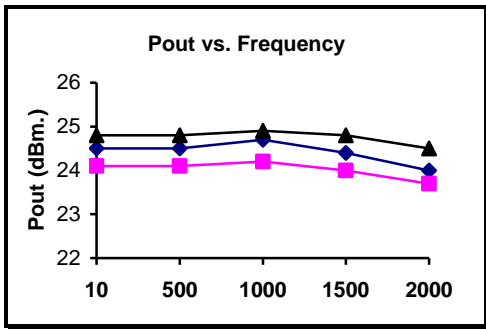
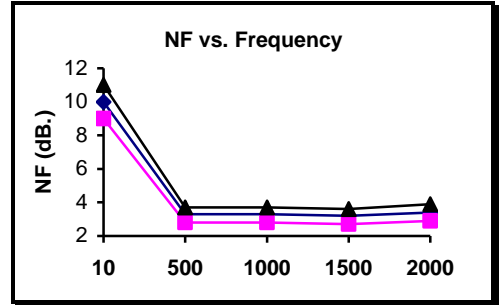
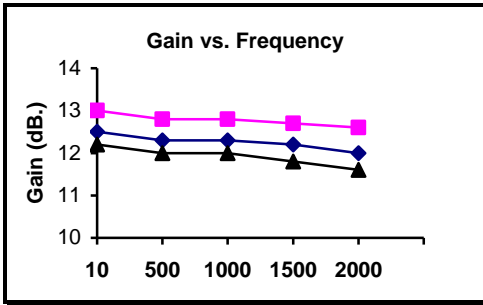
Min. and max. values are from -40°C to +85°C

# OUTLINE

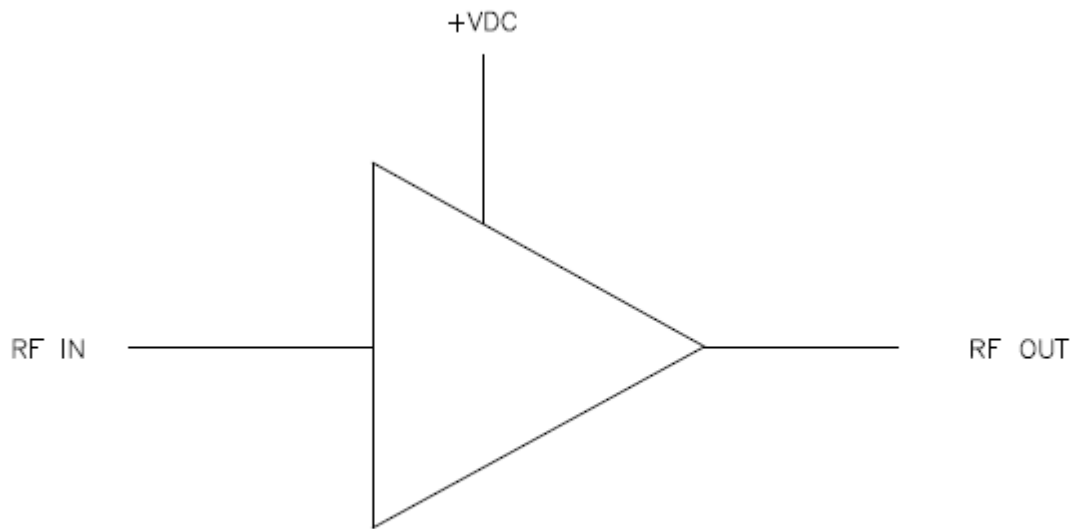


**Typical Performance Curves**

■ -55°C    ◆ -25°C    ▲ +85°C



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED