

# ASC2962C

**6 – 12 GHz  
Cascade Amplifier**



**Features: (typical values)**

- Low Noise Figure ..... 3.5 dB.
- P1dB ..... 25 dBm.
- Gain ..... 30 dB.
- No external components required

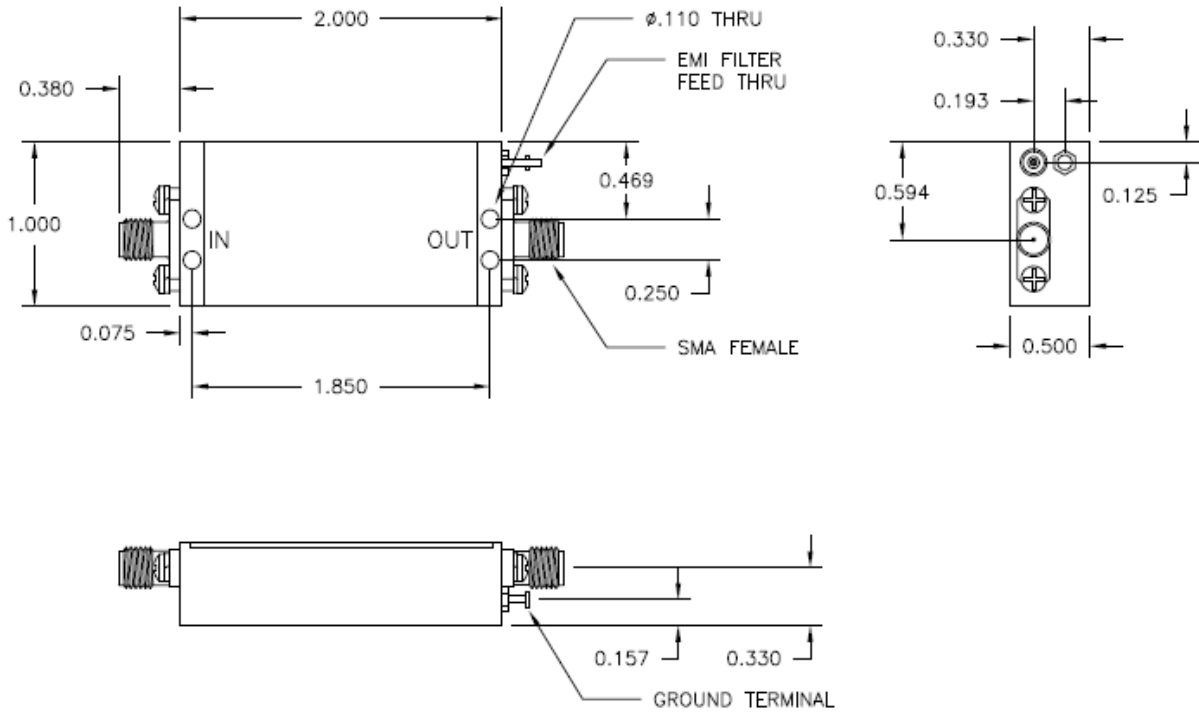
**Maximum Ratings**

Operating Temperature ..... -20°C to +70°C  
 Storage Temperature ..... -40°C to +125°C  
 DC Voltage ..... +12.0volts  
 RF Input Power ..... +5 dBm.  
 Case Temperature ..... +100°C

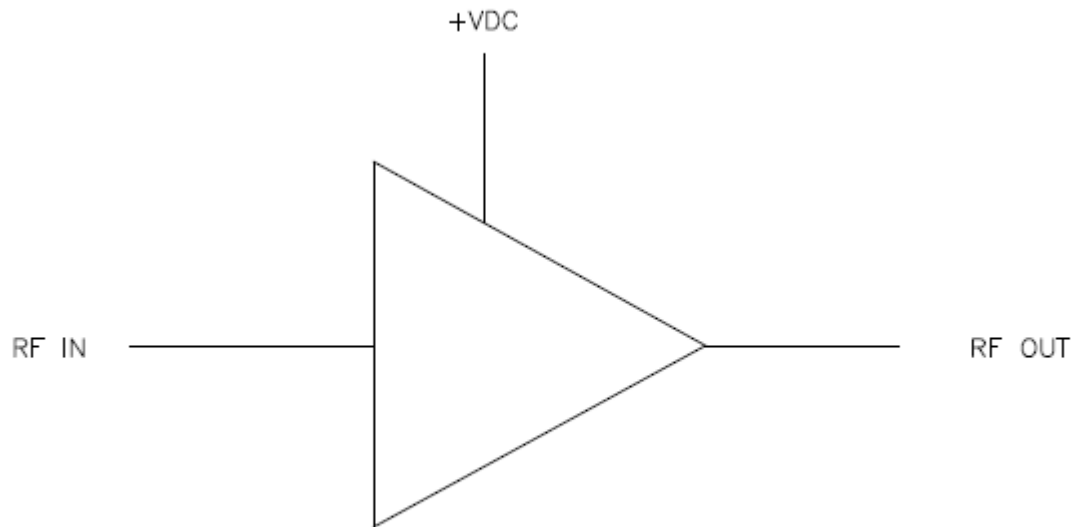
Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		6	12	GHz.
Gain	30	28		dB.
Gain Flatness Full Band	±0.75		±1.0	dB.
Pout @ P1dB	+25	+24		dBm.
Noise Figure	3.5		5.0	dB.
OIP3	36			dBm
VSWR In/Out	1.7:1		2.0:1	Ratio
Impedance, Input/Output	50 Ohm			
Supply Required	+12/350		+12/400	v/mA.

# OUTLINE



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED