

# ASC2707C

**2000-4000 MHz  
Low Noise Amplifier**



**Features: (typical values)**

- Bandwidth ..... 2000-4000 MHz.
- Power Out ..... 16 dBm.
- High Gain ..... 32 dB.
- NF ..... 2.0 dB.
- No external components required

**Maximum Ratings**

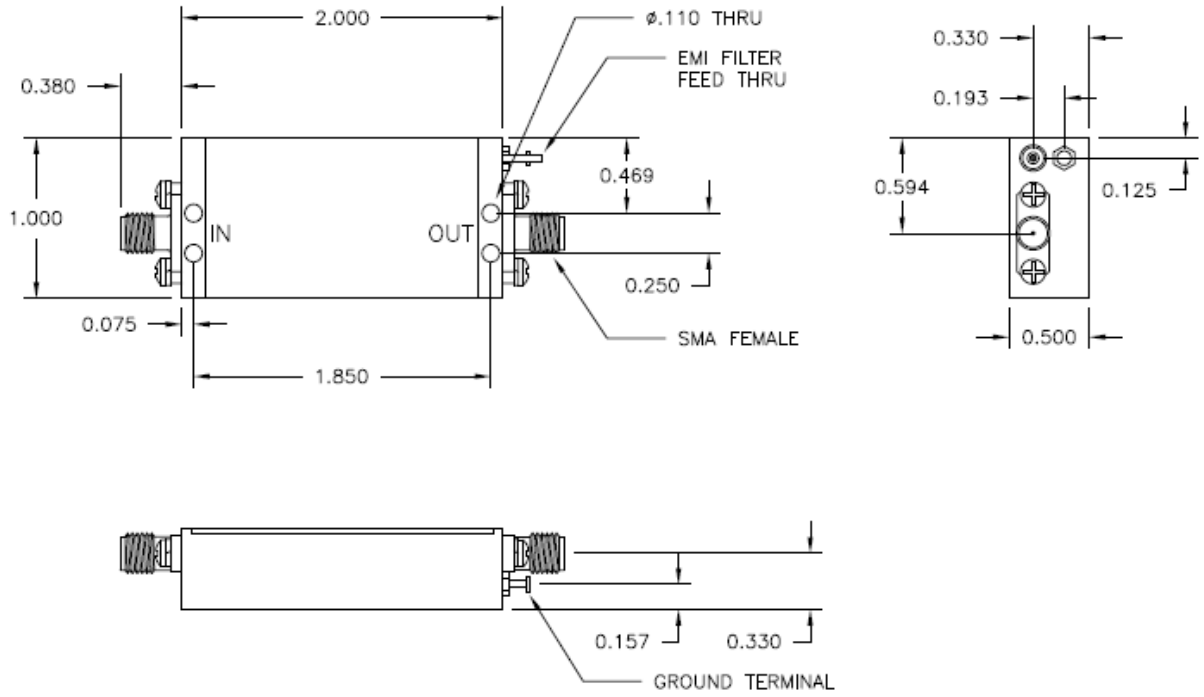
Storage Temperature ..... -62°C to +125°C  
 DC Voltage ..... +12 volts  
 RF Input Power ..... - 12 dBm.  
 Case Temperature ..... +100°C

Specifications (Referenced to 50 ohms)

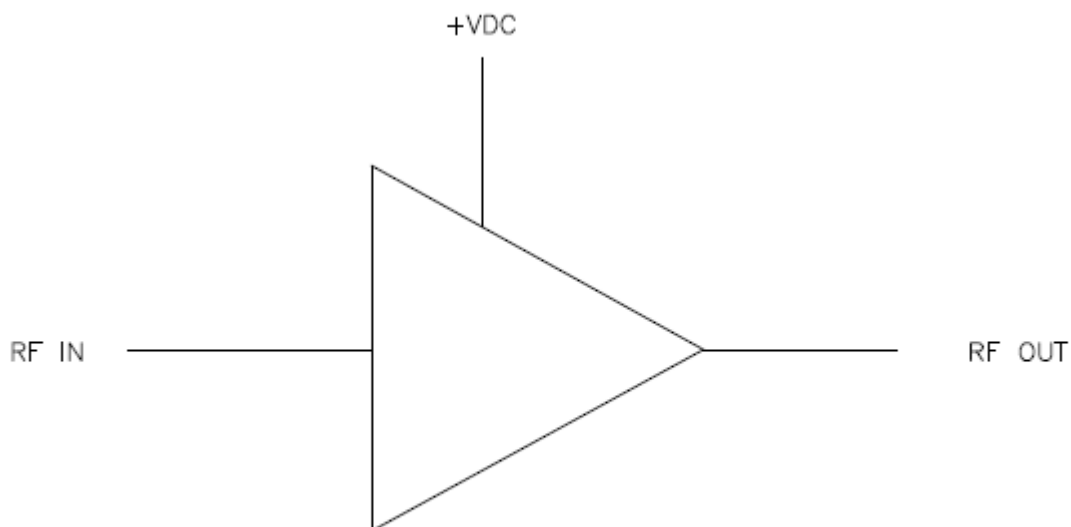
Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		2	4	GHz.
Gain	32	30		dB.
Gain Flatness	±1.0		±2.0	dB.
Gain Var. over temp	0.6			ΔdB.
Pout @ 1dB Comp	+16	+10		dBm.
Noise Figure	2.0		2.5	dB.
IP <sub>3</sub> @ two input tone of +5dBm	30			dBm.
VSWR In/Out	2.0:1		2.5:1	
Supply Required	+12/300		+12/350	v/mA.

Min. and max. Values are from -20°C to +70°C

# OUTLINE



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED