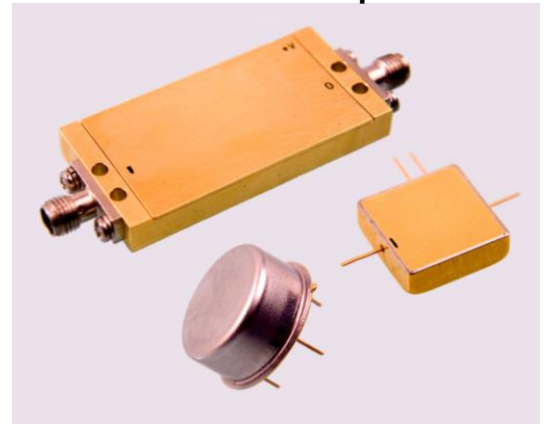


# ASC807C

## 400-2500 MHz Cascadable Amplifier



### Features: (typical values)

- Wide Band ..... 400-2500 MHz.
- Noise Figure ..... 2.2 dB.
- High Gain ..... 42 dB.
- No external components required

### Maximum Ratings

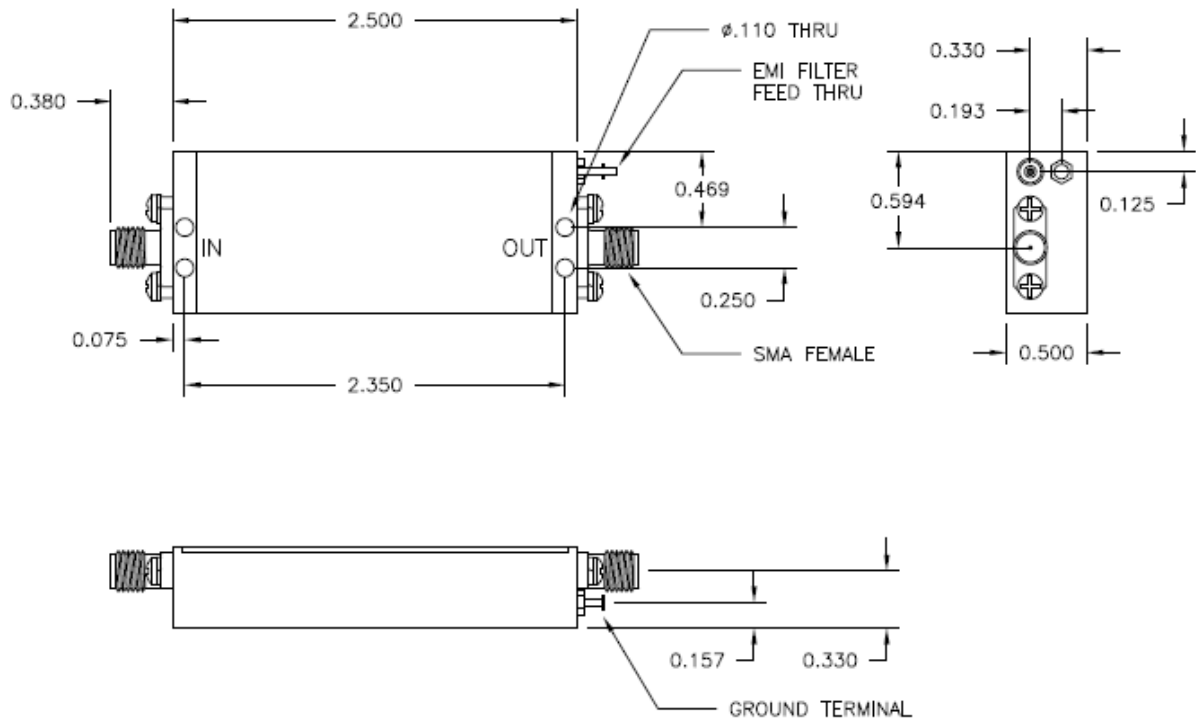
Storage Temperature ..... -62°C to +125°C  
 DC Voltage ..... +14 volts  
 RF Input Power ..... +7.0 dBm.  
 Case Temperature ..... +100°C

Specifications (Referenced to 50 ohms)

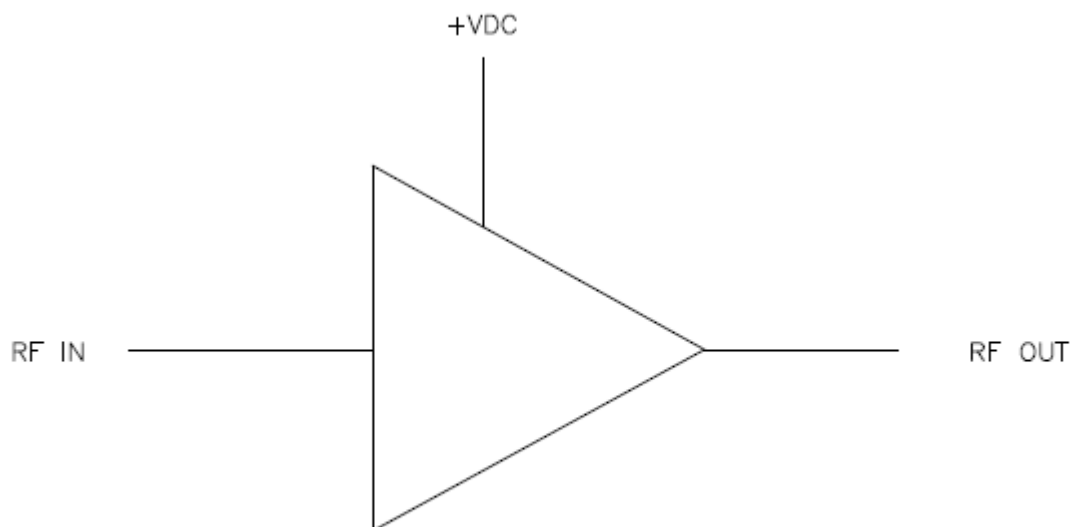
Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		400	2500	MHz.
Gain	35	33		dB.
Gain Flatness	±0.5		±1.0	dB.
Gain Var. over temp	0.6			ΔdB.
Pout @ 1dB Comp	+26	+25		dBm.
Noise Figure	2.2		4.0	dB.
Reverse Isolation	60			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone)*	40/60	37/50		dBm.
HIP2 (2 <sup>nd</sup> harm.)	65			dBm.
VSWR In/Out	1.5:1		1.8:1	
Supply Required	+12/400		+12/450	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



NO EXTERNAL COMPONENT REQUIRED