

# ASC806C

## Features: (typical values)

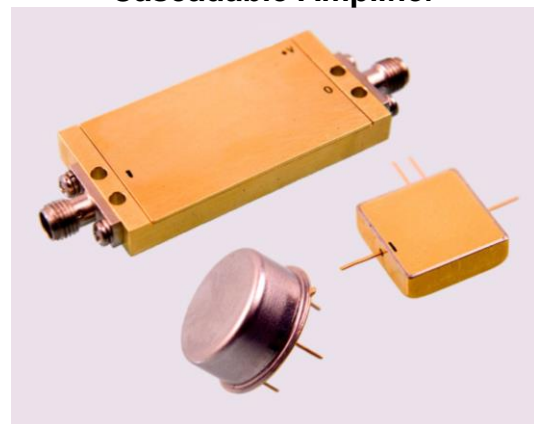
- Wide Band .....10-600 MHz.
- Noise Figure ..... 3.0 dB.
- High Gain ..... 42 dB.
- No external components required

## Maximum Ratings

Storage Temperature ..... -62°C to +125°C  
 DC Voltage ..... +17 volts  
 RF Input Power ..... +7.0 dBm.  
 Case Temperature ..... +100°C

Specifications (Referenced to 50 ohms)

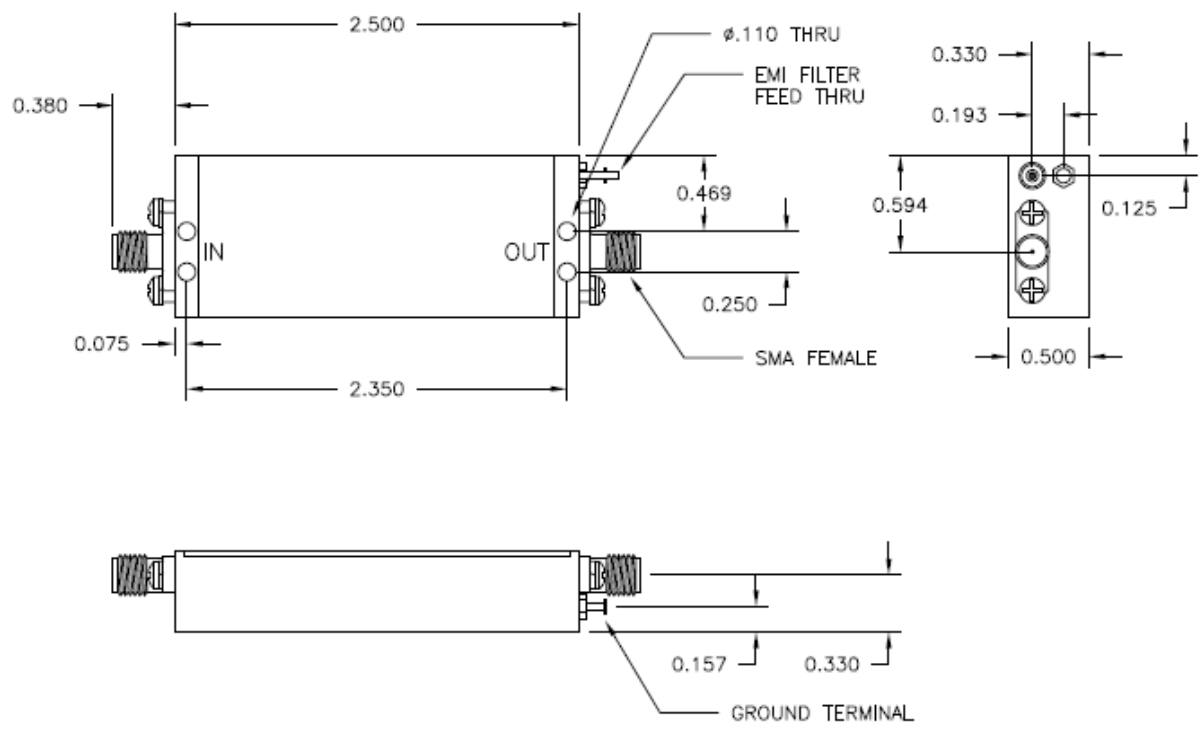
## 10-600 MHz Cascadable Amplifier



Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		10	600	MHz.
Gain	42	40		dB.
Gain Flatness	±0.5		±1.0	dB.
Gain Var. over temp	0.6			ΔdB.
Pout @ 1dB Comp	+28	+26		dBm.
Noise Figure	3.0		4.5	dB.
Reverse Isolation	60			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone)*	45/70	42/65		dBm.
HIP2 (2 <sup>nd</sup> harm.)	75			dBm.
VSWR In/Out	1.3:1		1.6:1	
Supply Required	+15/450		+15/550	v/mA.

Min. and max. values are from -55°C to +85°C  
 \*IP<sub>3</sub> and IP<sub>2</sub> are in band output intercept points

# OUTLINE



FUNCTIONAL BLOCK DIAGRAM

