

# ASC2531C

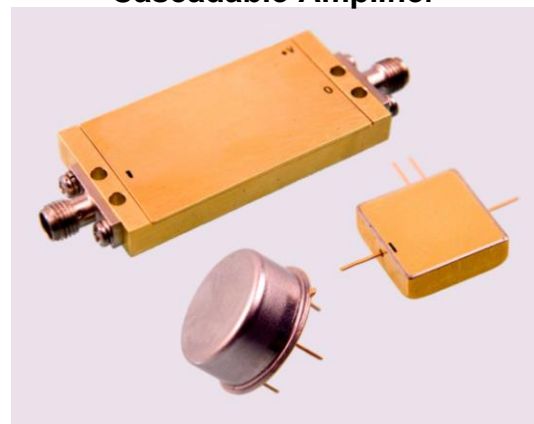
### Features: (typical values)

- Wide Band ..... 5-500 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 ..... -10 dBm.  
 Case Temperature ..... +100°C

### 5-500 MHz Cascadable Amplifier

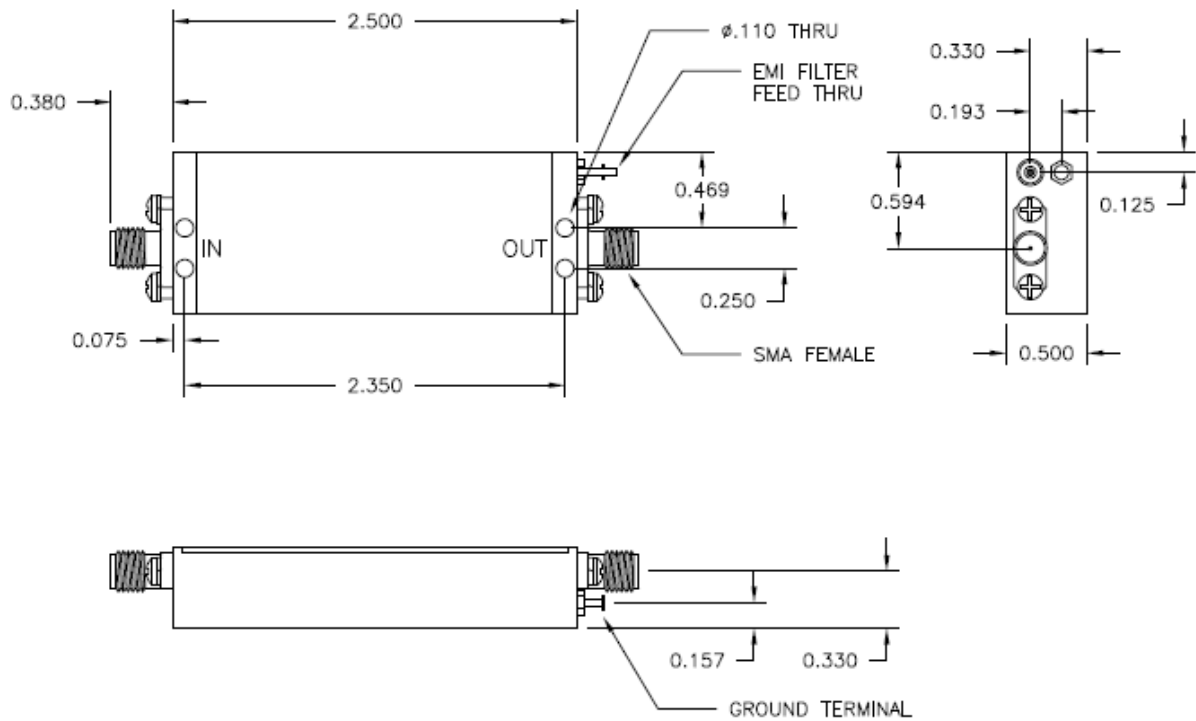


Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		5	500	MHz.
Gain	42	40		dB.
Gain Flatness	±0.5		±1.0	dB.
Gain Var. over temp	0.6			ΔdB.
Pout @ 1dB Comp	+24	+22		dBm.
Noise Figure	2.0		3.0	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		+15/700	v/mA.

Min. and max. values are from -40°C to +80°C  
 \*IP<sub>3</sub> and IP<sub>2</sub> are in band output intercept points

# OUTLINE



FUNCTIONAL BLOCK DIAGRAM

