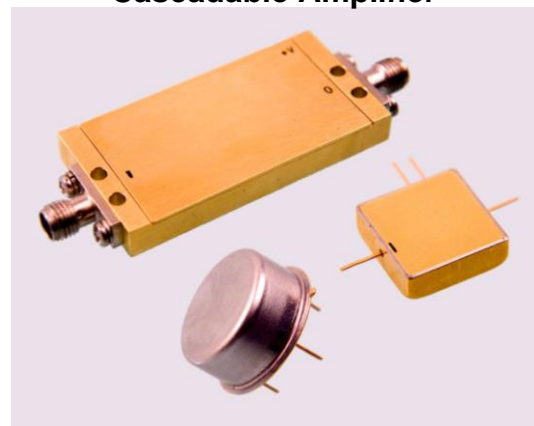


# ASC801C

## 20-500 MHz Cascadable Amplifier



### Features: (typical values)

- Wide Band ..... 20-500 MHz.
- Noise Figure ..... 1.5 dB.
- High Gain ..... 41 dB.
- No external components required

### Maximum Ratings

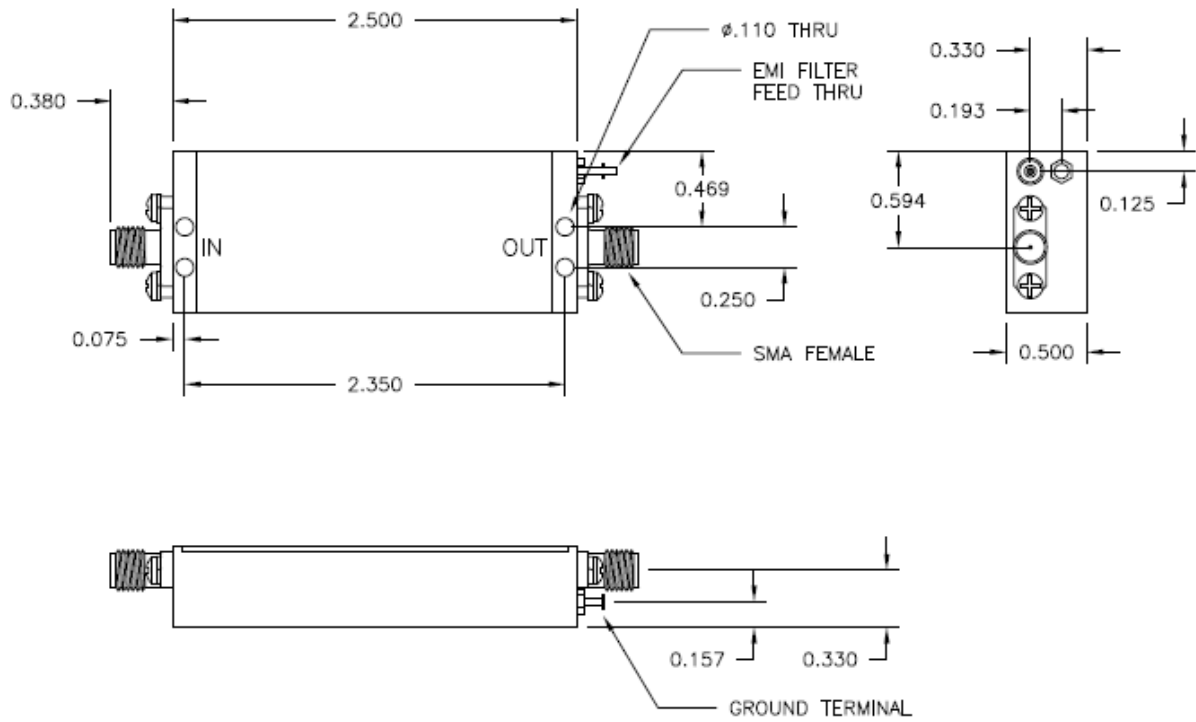
Storage Temperature ..... -62°C to +125°C  
 DC Voltage ..... +17 volts  
 RF Input Power ..... +7.0 dBm.  
 Case Temperature ..... +100°C

Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		20	500	MHz.
Gain	41	38		dB.
Gain Flatness	±0.5		±1.0	dB.
Gain Var. over temp	0.6			ΔdB.
Pout @ 1dB Comp	+27	+25		dBm.
Noise Figure	1.5		2.5	dB.
Reverse Isolation	50			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone)*	40/44	35/40		dBm.
HIP2 (2 <sup>nd</sup> harm.)	50			dBm.
VSWR In/Out	1.7:1		2.0:1	
Supply Required	+15/320		+15/350	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

