

# ASC803C

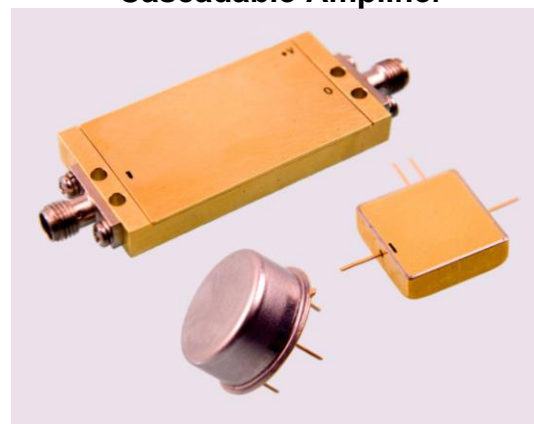
## 500-2000 MHz Cascadable Amplifier

### Features: (typical values)

- Wide Band ..... 500-2000 MHz.
- Noise Figure ..... 2.5 dB.
- High Gain ..... 35 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



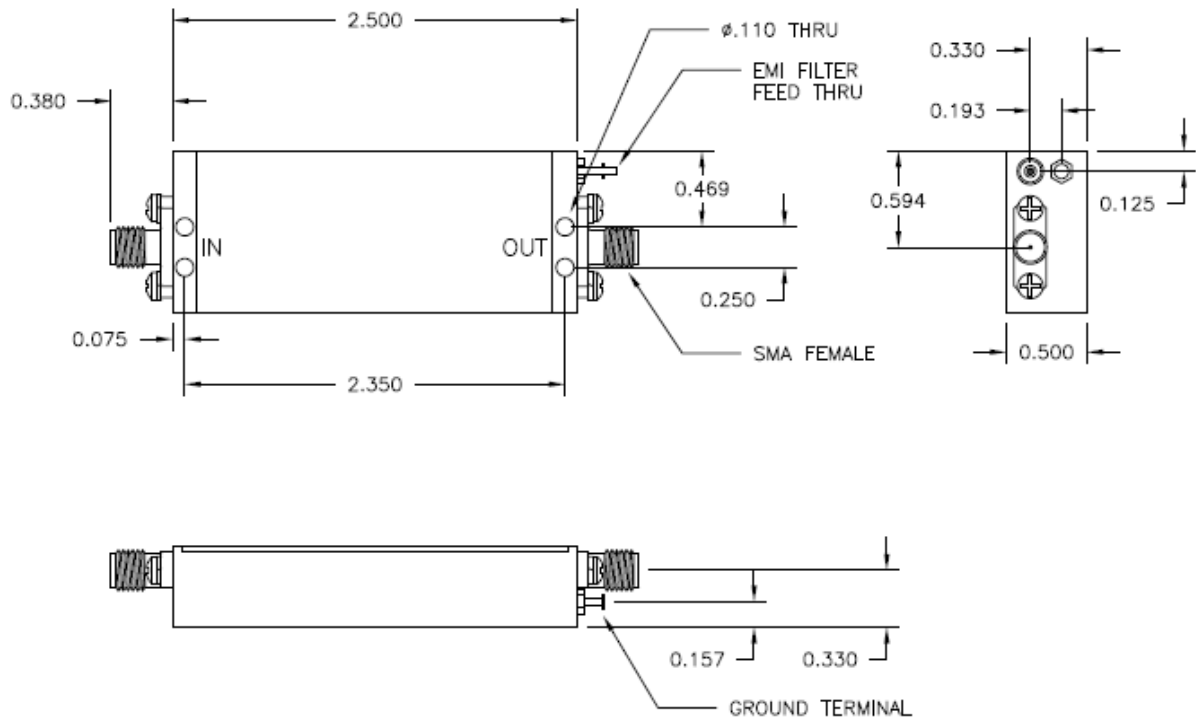
Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		500	2000	MHz.
Gain	35	33		dB.
Gain Flatness	±0.5		±1.0	dB.
Gain Var. over temp	0.6			ΔdB.
Pout @ 1dB Comp	+29	+27		dBm.
Noise Figure	2.5		3.5	dB.
Reverse Isolation	45			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone)*	42/65	38/60		dBm.
HIP2 (2 <sup>nd</sup> harm.)	70			dBm.
VSWR In/Out	1.7:1		2.0:1	
Supply Required	+15/900		+15/940	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

