

ASC2696C

5-500 MHz Cascadable Amplifier



Features: (typical values)

- High Reverse Isolation 40.0 dB.
- Noise Figure 4.5 dB.
- High Gain 62 dB.
- No external components required

Maximum Ratings

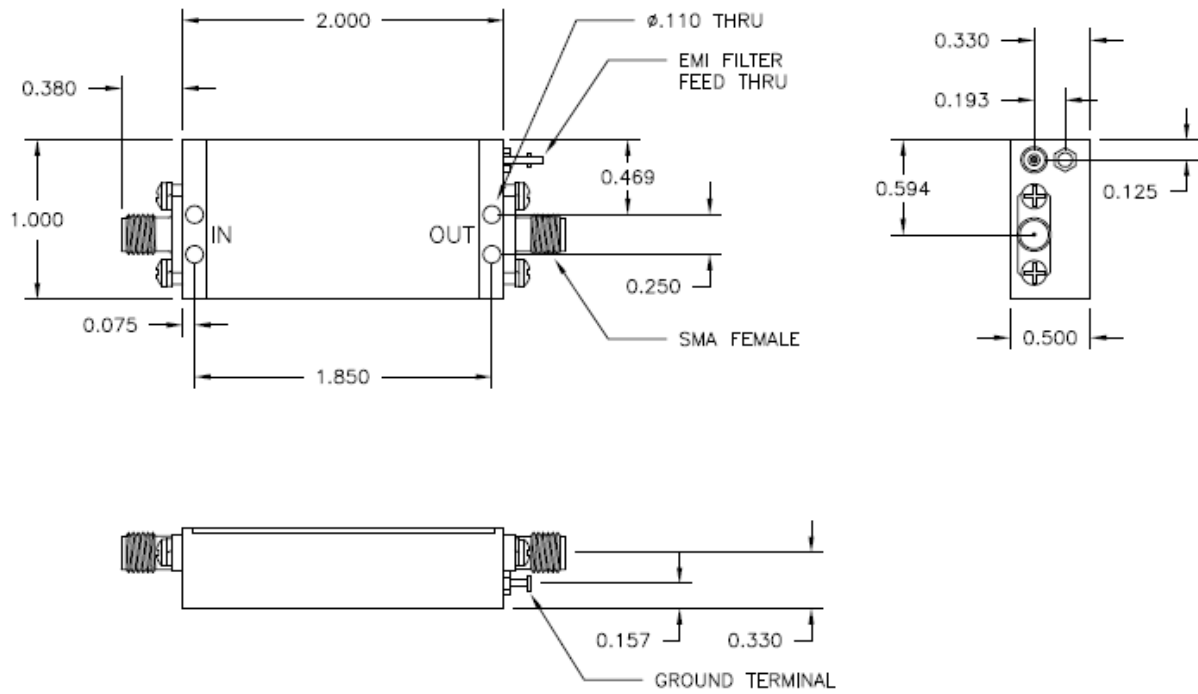
Storage Temperature -62°C to +125°C
 DC Voltage +17 volts
 RF Input Power -40 dBm.
 Case Temperature +100°C

Specifications (Referenced to 50 ohms)

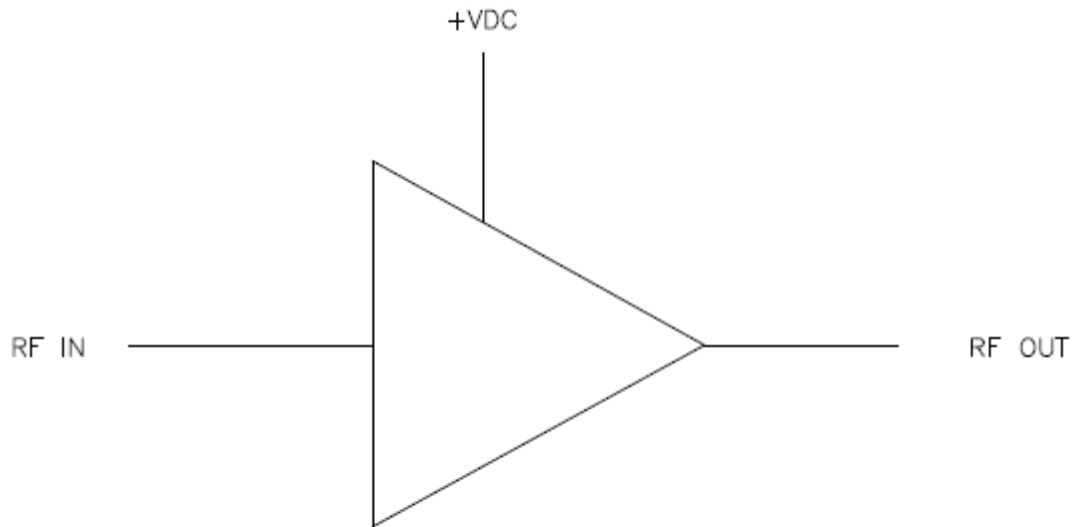
Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		5	500	MHz.
Gain	62	60		dB.
Gain Flatness	±0.5		±1.0	dB.
Pout @ 1dB Comp	+10	+7.0		dBm.
Noise Figure	1.5		2.0	dB.
Reverse Isolation	40			dB.
IP ₃ /IP ₂ (two-tone)*	22/33			dBm.
HIP2 (2 nd harm.)	40			dBm.
VSWR In/Out	1.7/1.5:1		2.0:1	
Supply Required	+15/120		+15/200	v/mA.

Min. and max. values are from -20°C to +70°C
 *IP₃ and IP₂ are in band output intercept points

OUTLINE



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED