

ASC3107C

**10 - 3000 MHz
Cascade Amplifier**



Features: (typical values)

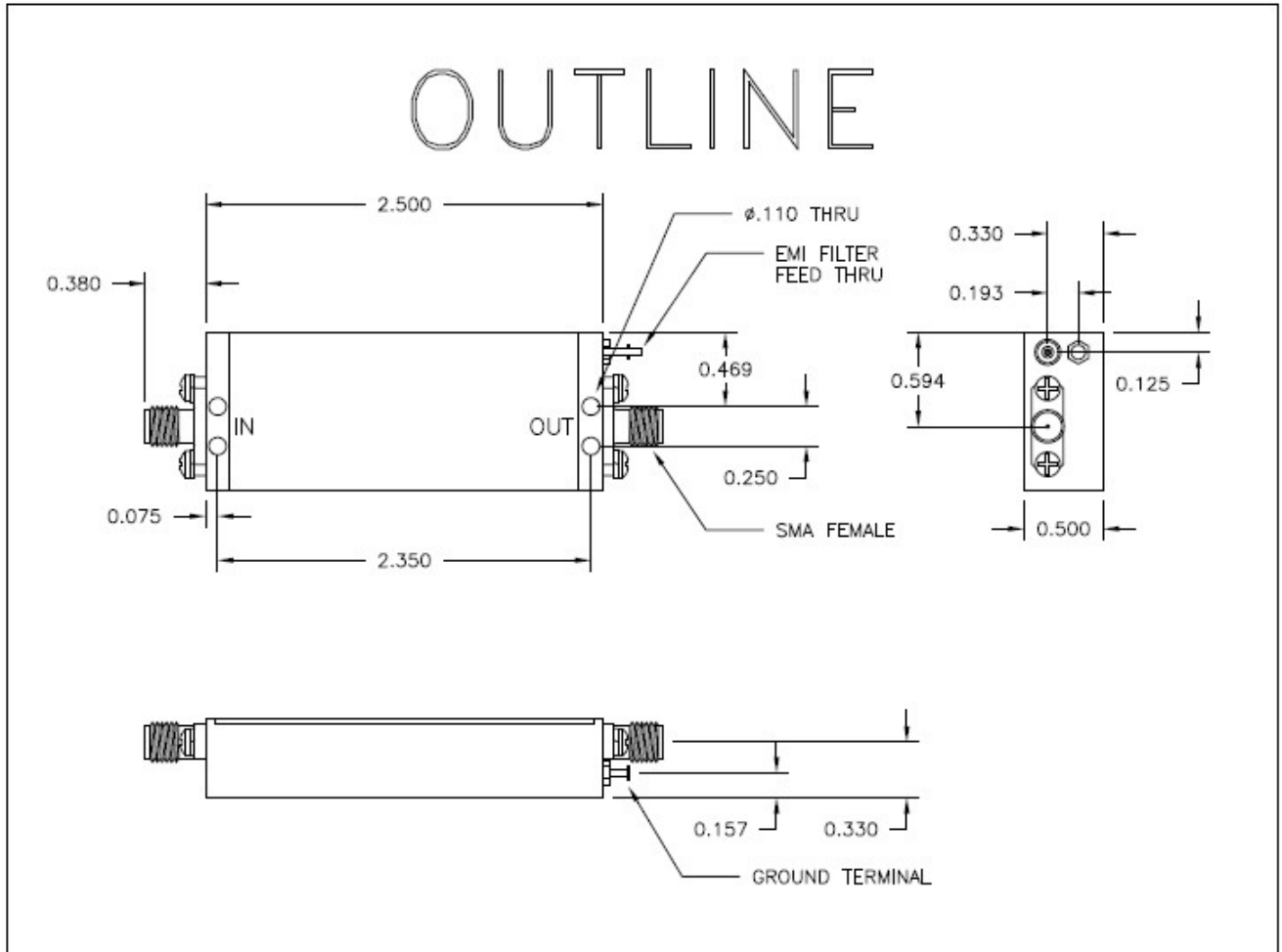
- Power Out +21 dBm.
- Gain 30dB.
- Noise Figure..... 3.5 dB.
- No external components required
- Connector SMA-F

Maximum Ratings

Storage Temperature -62°C to +125°C
 Operating Temperature-55°C to +85°C
 DC Voltage +17 volts
 RF Input Power +15 dBm.
 Case Temperature +105°C

Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		10	3000	MHz.
Gain	30	27		dB.
Gain Flatness Full Band	±0.70		±1.2	dB.
Gain Var. over temp	1.0			ΔdB.
Reverse Isolation	50			dB.
Pout @ 1dB Comp	+21	+19.5		dBm.
Noise Figure	200 MHz – 1000 MHz 1000 MHz – 3000 MHz	3.5 2.7	5.5 4.0	dB.
Third Order Two Tone Intercept Point	+35			dBm.
Second Order Two Tone Intercept Point	+65			dBm.
VSWR In	1.7:1		2.0:1	
VSWR Out	1.8:1		2.0:1	
Supply Required	+15/240		+15/260	v/mA.
Impedance	50 Ohm			



FUNCTIONAL BLOCK DIAGRAM

