

ASC2671C

**0.5 - 32 MHz
Low Distortion Amplifier**



Features: (typical values)

- Bandwidth 0.5-32 MHz.
- Power Out 28 dBm.
- Gain 17 dB.
- Noise Figure..... 4.0 dB.
- IP₃ / IP₂ 45 / 80 dBm.
- No external components required

Maximum Ratings

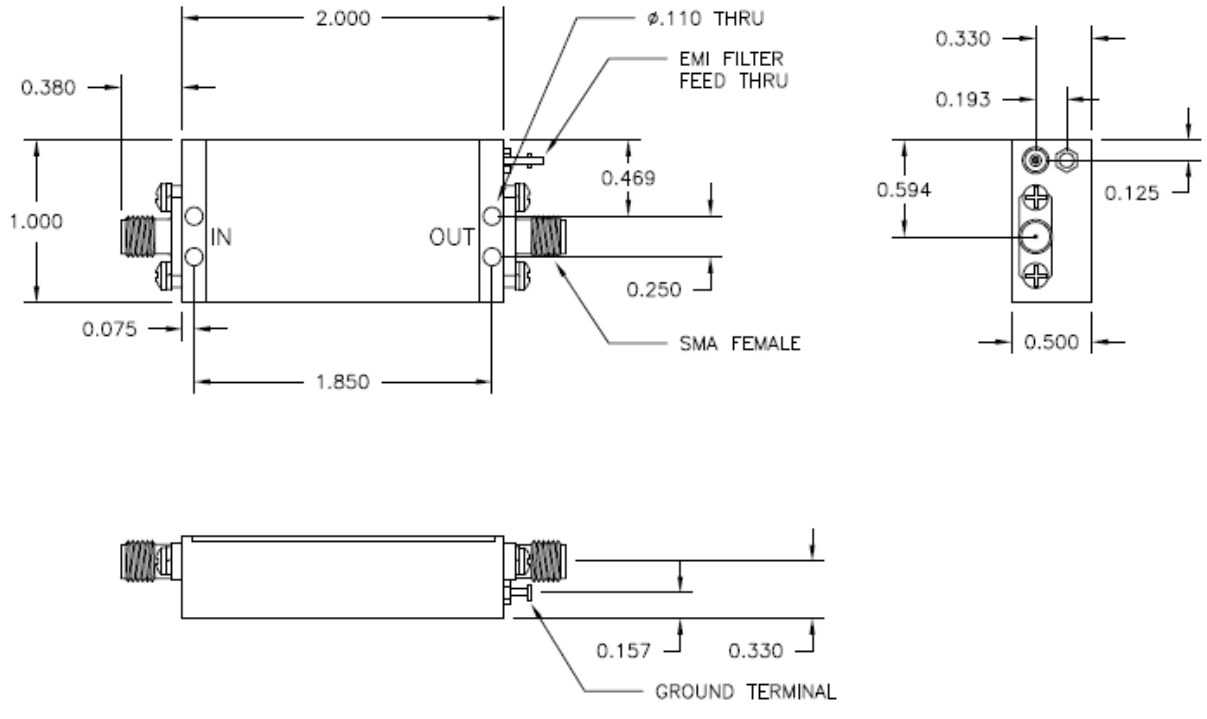
Storage Temperature -62°C to +125°C
 DC Voltage +28 volts
 RF Input Power +33 dBm.
 Case Temperature +100°C

Specifications (Referenced to 50 ohms)

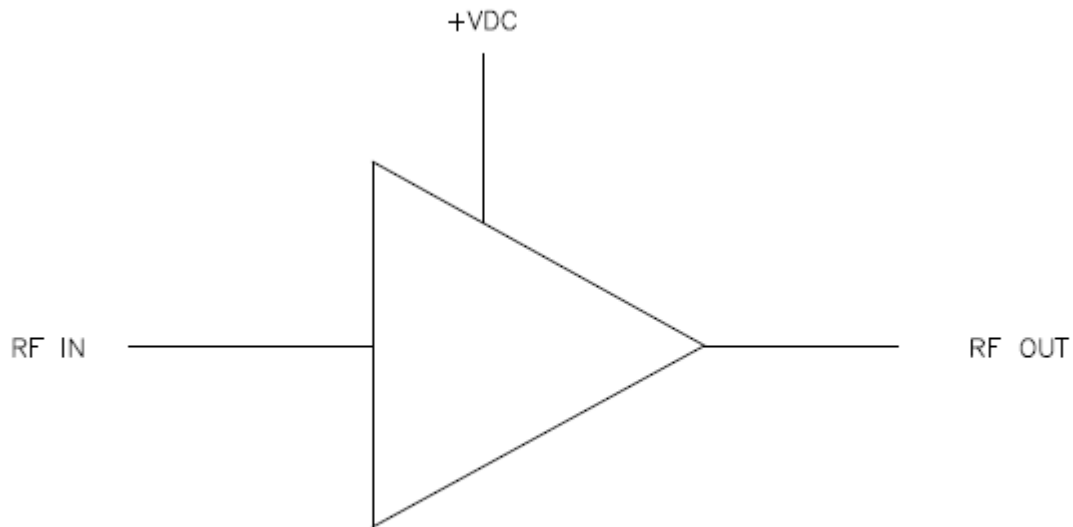
Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		0.5	32	MHz.
Gain	17	16	18	dB.
Gain Flatness	±0.25		±0.5	dB.
Gain Var. over temp	1.0			ΔdB.
Pout @ 1dB Comp	+28	+18		dBm.
Noise Figure	4.0		5.0	dB.
IP ₃ @ two input tone of +12dBm	45	44		dBm.
IP ₂ @ two input tone of +12dBm	80	76		dBm.
VSWR In/Out	1.3:1		1.5:1	
Supply Required	+28/220		+28/400	v/mA.

Min. and max. Values are from 0°C to +70°C

OUTLINE



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED