

# ASC428C

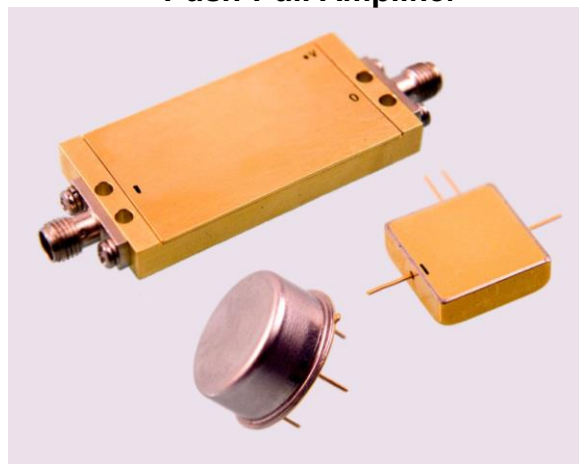
## 1000-2000 MHz Push-Pull Amplifier

### Features: (typical values)

- Low Distortion
- High Second Order IP2 ..... +75.0 dBm.
- High Third Order IP3 ..... +43.0 dBm.
- High Gain..... +35 dB.
- No external components required

### Maximum Ratings

Storage Temperature ..... -55°C to +125°C  
 DC Voltage ..... +17 volts  
 RF Input Power ..... +15.0 dBm.  
 Case Temperature ..... +95°C

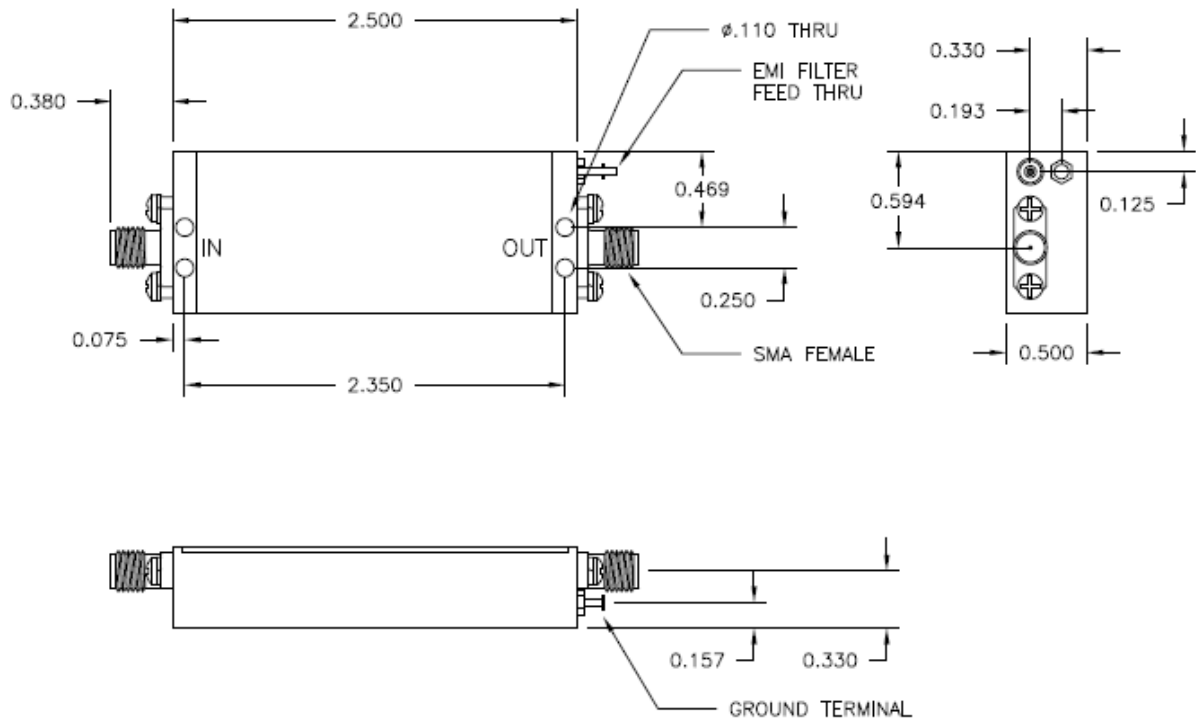


Specifications (Referenced to 50 ohms)

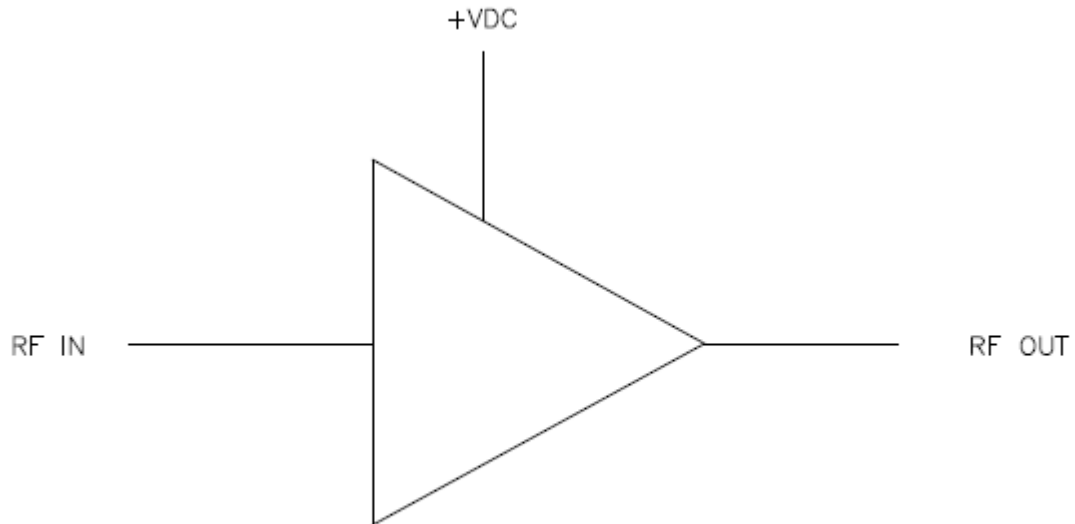
Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		1000	2000	MHz.
Gain	35	33	37	dB.
Gain Flatness	±0.3		±1.0	dB.
Gain Var. over temp.	0.5			ΔdB.
Pout @ 1dB Comp	+29	+27		dBm.
Noise Figure	3.5		4.0	dB.
Reverse Isolation	47			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two tone)*	43/75			dBm.
HIP2 (2 <sup>nd</sup> harm.)	75			dBm.
VSWR In/Out	1.4:1		2.0:1	Ratio
Supply Required	+15/950		+15V/970	v/mA

Min. and max. values are from 0°C to +85°C  
 \*IP<sub>3</sub> and IP<sub>2</sub> are in band output intercept points

# OUTLINE



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED