

ASC427C

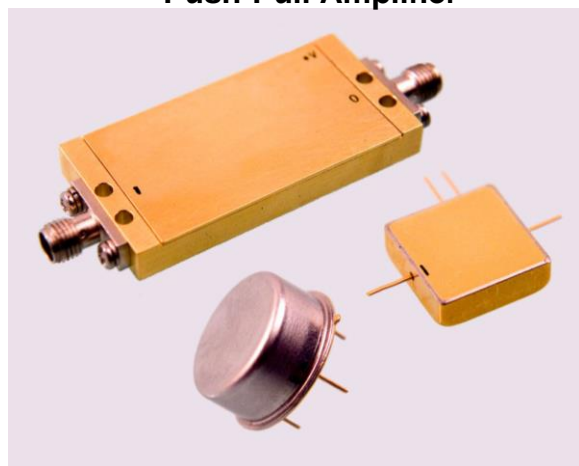
20-500 MHz Push-Pull Amplifier

Features: (typical values)

- Low Distortion
- High Second Order IP2 +75.0 dBm.
- High Third Order IP3 +47.0 dBm.
- High Gain..... +30 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

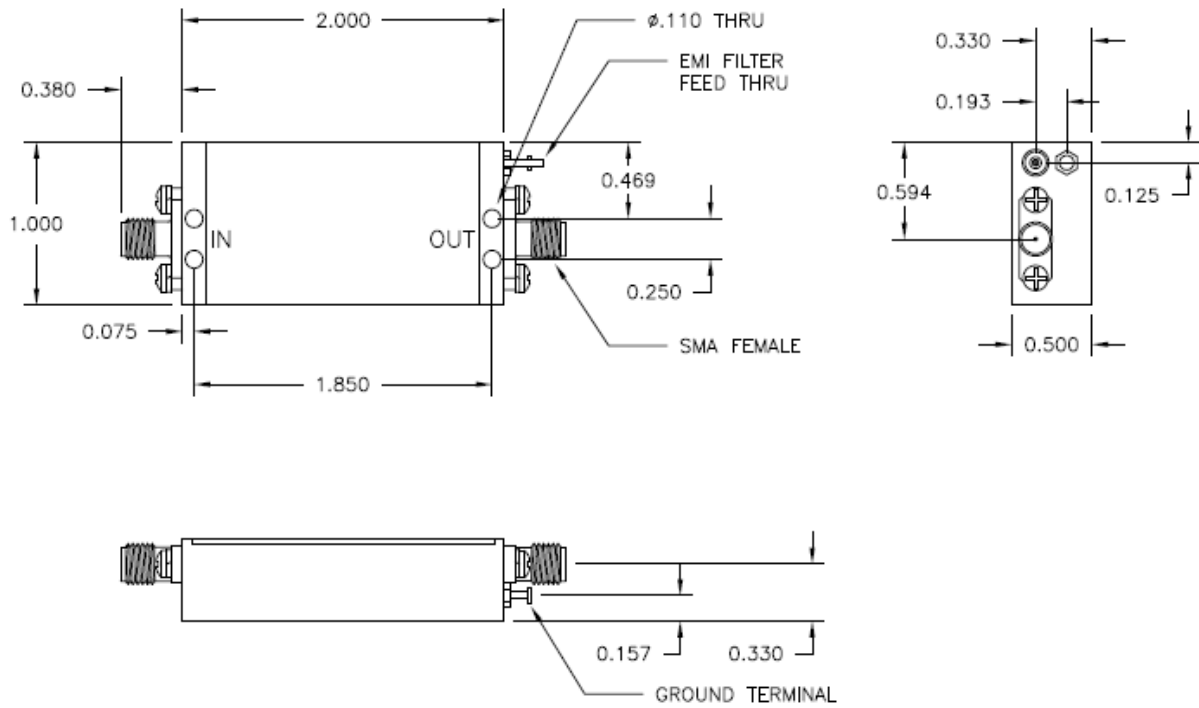


Specifications (Referenced to 50 ohms)

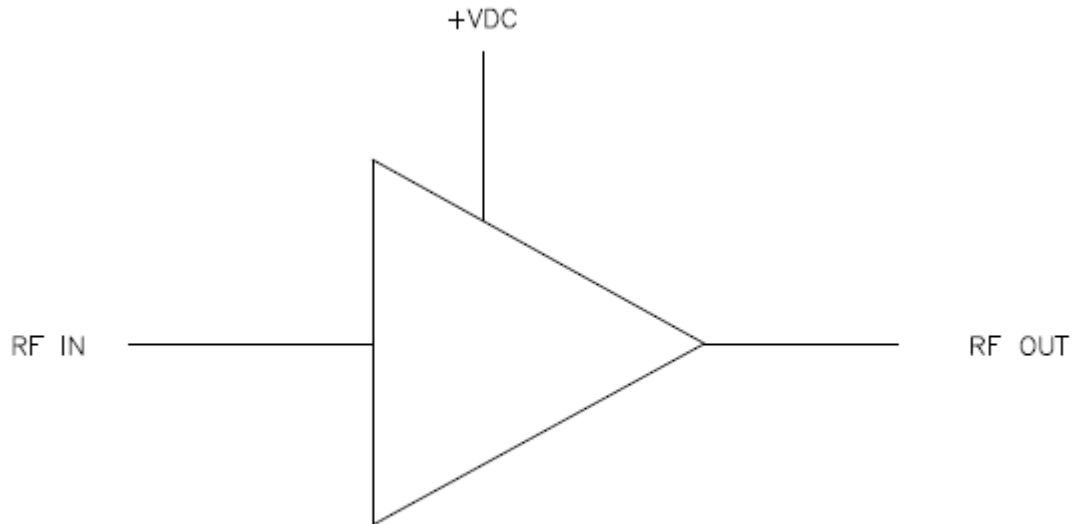
Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		20	500	MHz.
Gain	30	28	32	dB.
Gain Flatness	±0.3		±1.0	dB.
Gain Var. over temp.	0.5			ΔdB.
Pout @ 1dB Comp	+30	+28		dBm.
Noise Figure	3.5		4.0	dB.
Reverse Isolation	37			dB.
IP ₃ /IP ₂ (two tone)*	47/75			dBm.
HIP2 (2 nd harm.)	75			dBm.
VSWR In/Out	1.4:1		2.0:1	Ratio
Supply Required	+15/500		+15V/520	v/mA

Min. and max. values are from 0°C to +85°C
 *IP₃ and IP₂ are in band output intercept points

OUTLINE



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED