

ASC423C

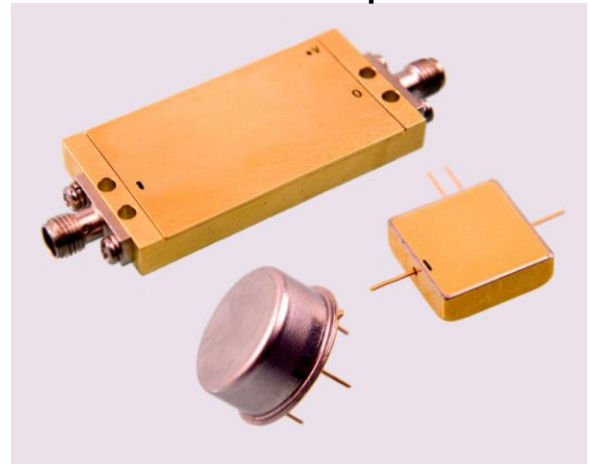
10-1000 MHz Push-Pull Amplifier

Features: (typical values)

- Low Distortion
- High Second Order IP2 +70.0 dBm.
- High Third Order IP3 +45.0 dBm.
- High Gain..... +27 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

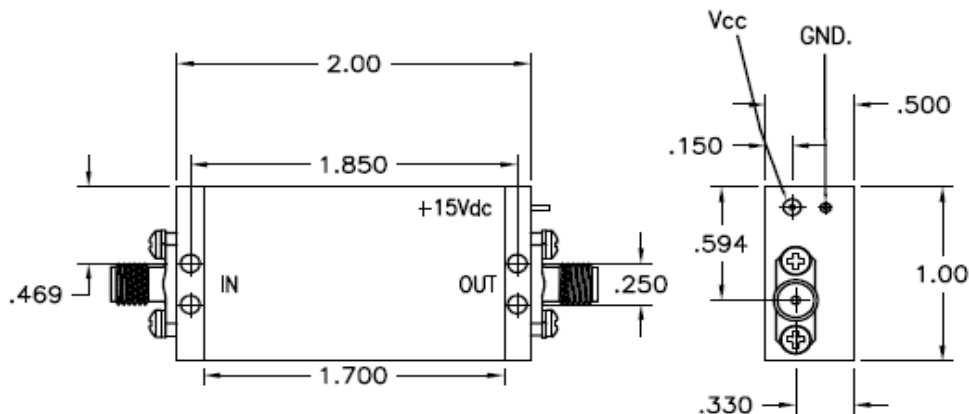


Specifications (Referenced to 50 ohms)

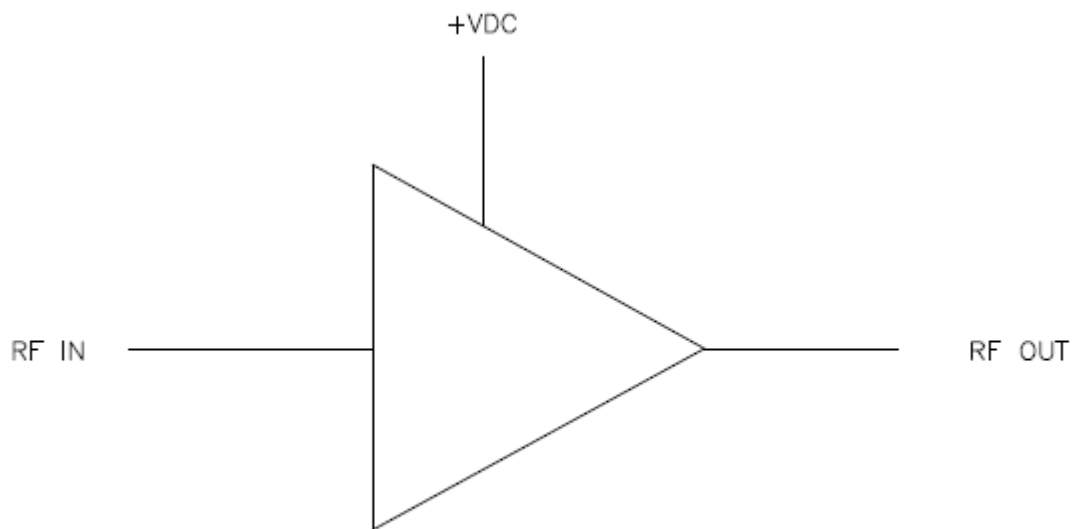
Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		10	1000	MHz.
Gain	27	25	29	dB.
Gain Flatness	±0.3		±1.0	dB.
Gain Var. over temp.	0.5			ΔdB.
Pout @ 1dB Comp	+30	+28		dBm.
Noise Figure	3.5		4.0	dB.
Reverse Isolation	37			dB.
IP ₃ /IP ₂ (two tone)*	45/70	40/60		dBm.
HIP ₂ (2 nd harm.)	75			dBm.
VSWR In/Out	1.4:1		2.0:1	Ratio
Supply Required	+15V/430		+15V/460	v/mA

Min. and max. values are from 0°C to +85°C

*IP₃ and IP₂ are in band output intercept points



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED