

ASC425C

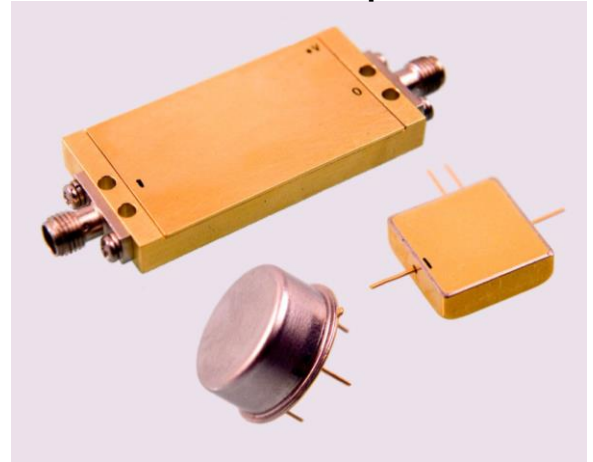
20-1000 MHz Push-Pull Amplifier

Features: (typical values)

- Low Distortion
- High Second Order IP2 +70.0 dBm.
- High Third Order IP3 +43.0 dBm.
- High Gain..... +26 dB.
- Low Noise +3.5 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



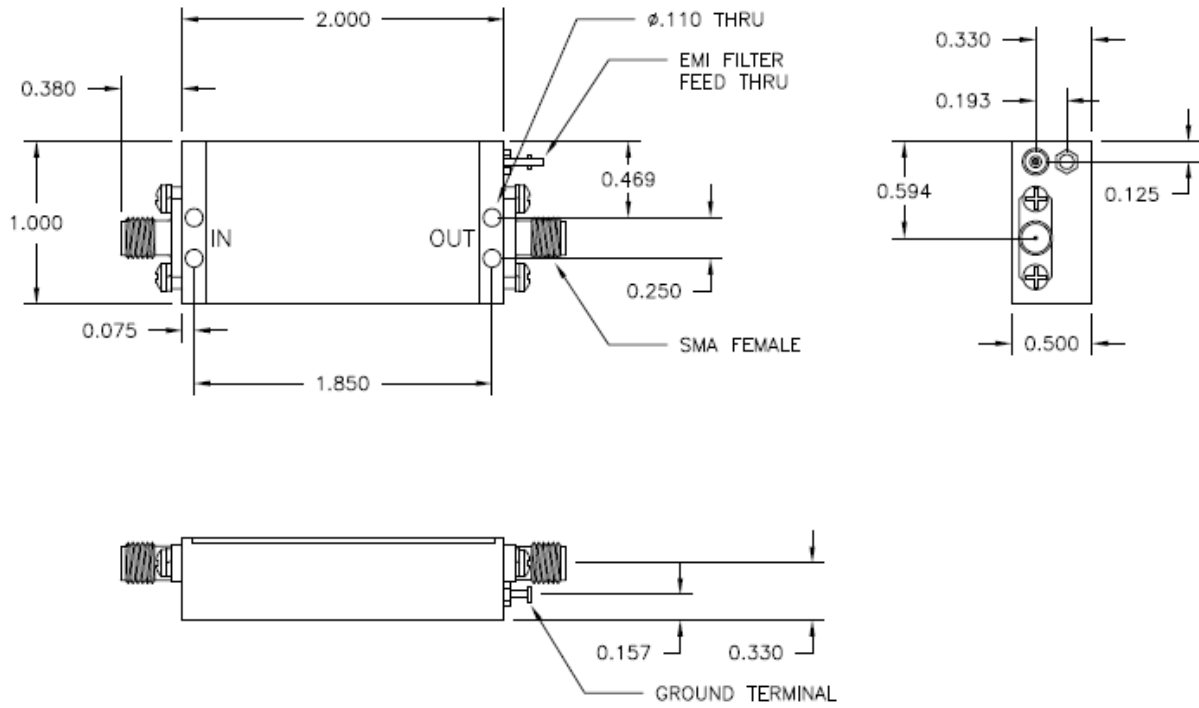
Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency	20/1200	20	1000	MHz.
Gain	26	25	27	dB.
Gain Flatness	±0.3		±1.0	dB.
Gain Var. over temp.	0.5			ΔdB.
Pout @ 1dB Comp	+28	+25		dBm.
Noise Figure	3.5		4.0	dB.
Reverse Isolation	40			dB.
IP ₃ /IP ₂ (two tone)*	43/70	40/60		dBm.
HIP2 (2 nd harm.)	75	65		dBm.
VSWR In/Out	1.4:1		1.5:1	Ratio
Supply Required	+15/300		+15V/330	v/mA

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

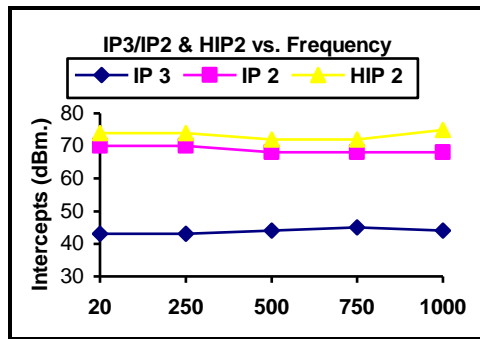
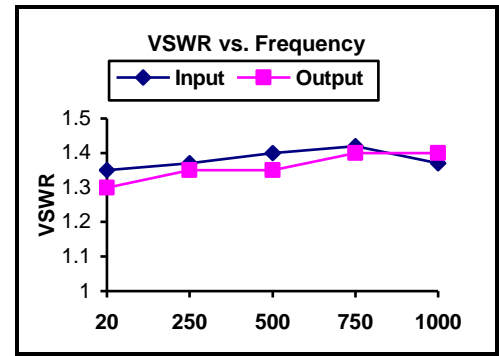
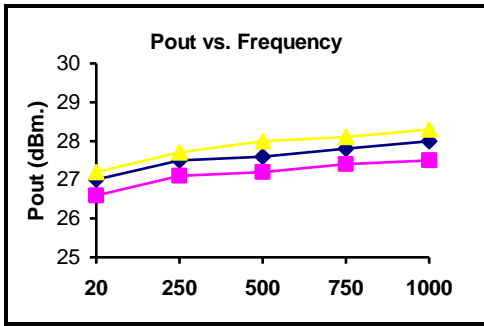
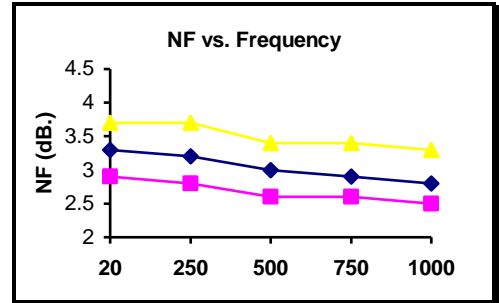
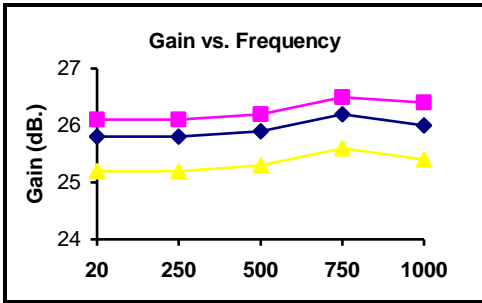
*IP₃ and IP₂ are in band output intercept points

OUTLINE

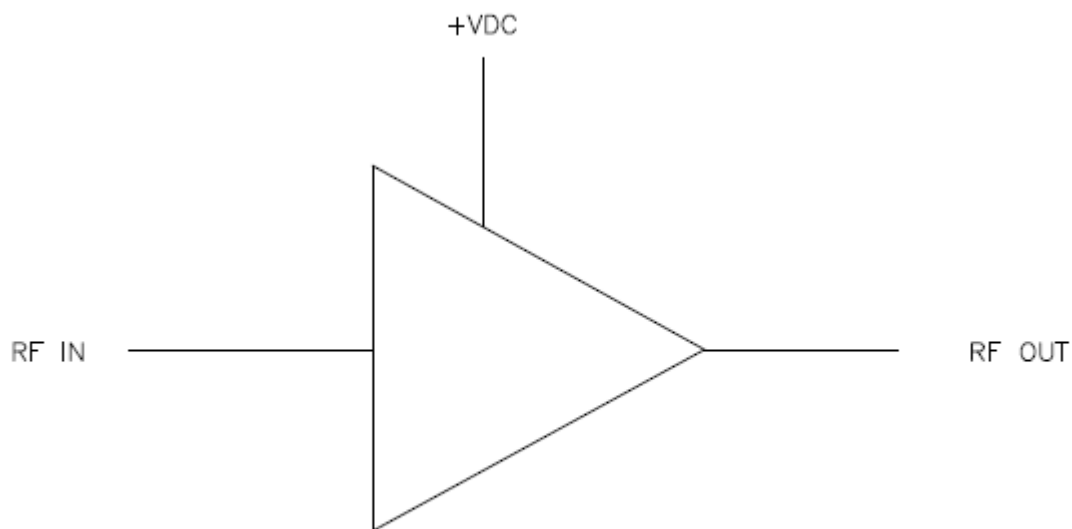


Typical Performance Curves @ 25°C

■ - 0°C ◆ - +25°C ▲ - +85°C



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED