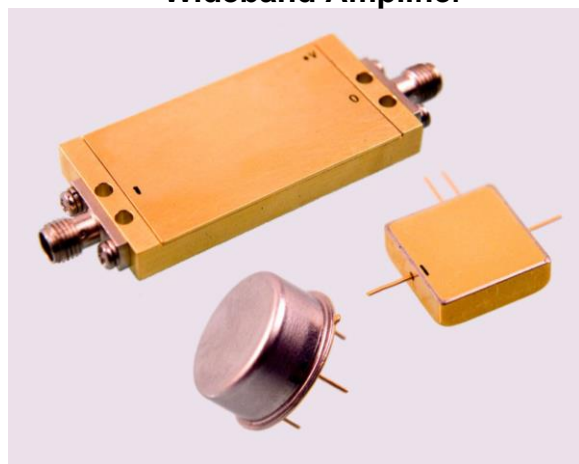


ASC230C

400-2700 MHz Wideband Amplifier



Features: (typical values)

- Wideband 400-2700 MHz.
- High Second Order IP2 +56.0 dBm.
- High Third Order IP3 +41.0 dBm.
- High Gain +33 dB.
- Low Noise + 3.0 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

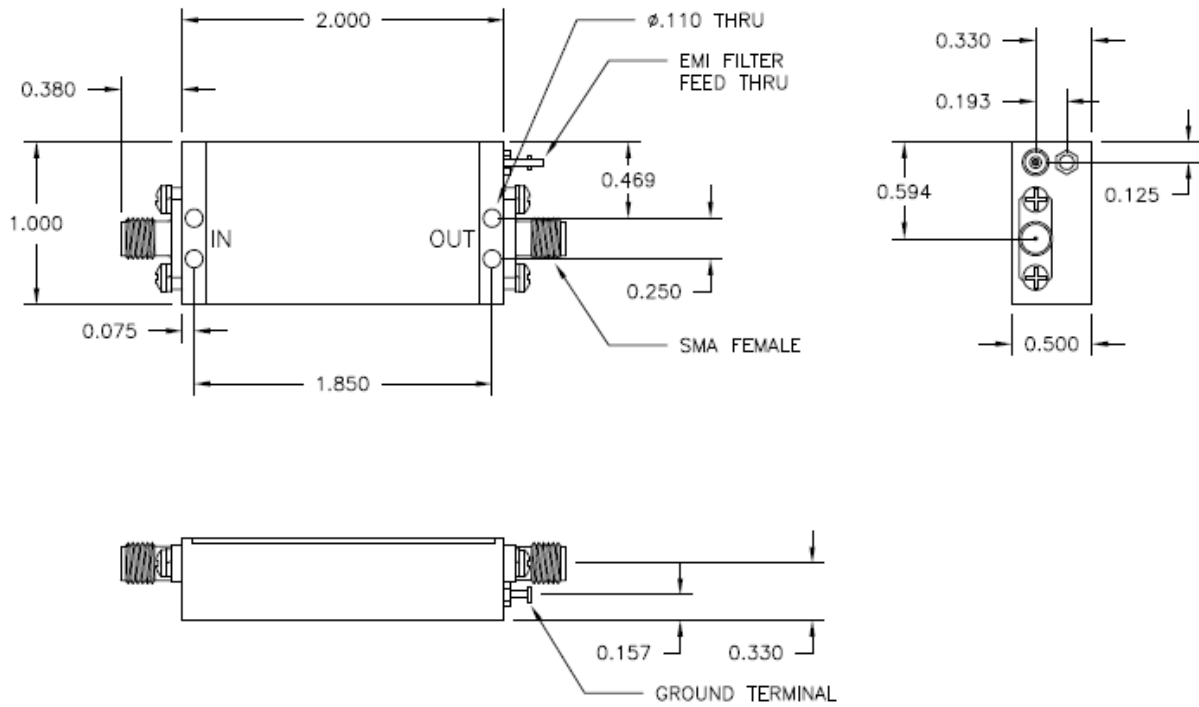
Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency	400/2700	450	2700	MHz.
Gain	33	31		dB.
Gain Flatness	±0.3		±1.0	dB.
Gain Var. over temp.	0.5			ΔdB.
Pout @ 1dB Comp	+25	+23		dBm.
Noise Figure	3.0		4.0	dB.
Reverse Isolation	30			dB.
IP ₃ /IP ₂ (two tone)*	41/56	36/51		dBm.
HIP2 (2 nd harm.)	61			dBm.
VSWR In/Out	1.5:1		2.0:1	Ratio
Supply Required	+15/300		+15V/350	v/mA

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

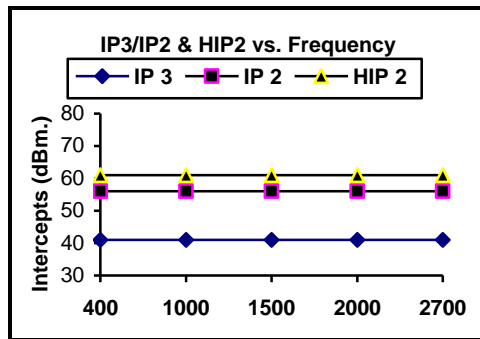
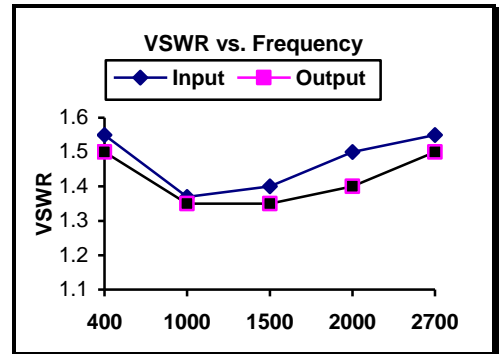
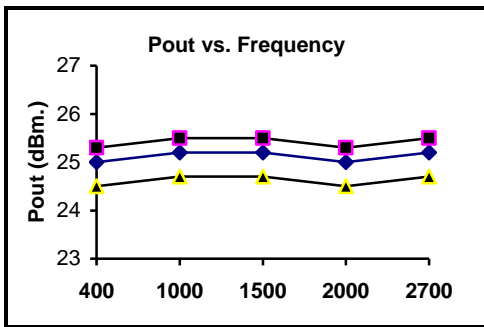
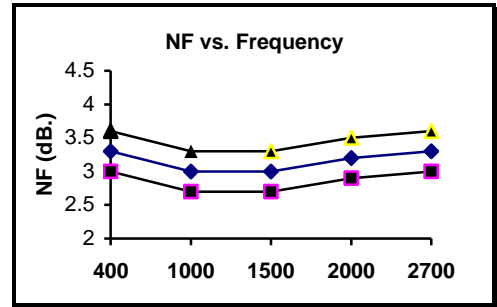
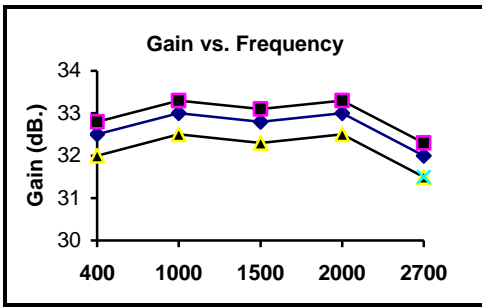
*IP₃ and IP₂ are in band output intercept points

OUTLINE

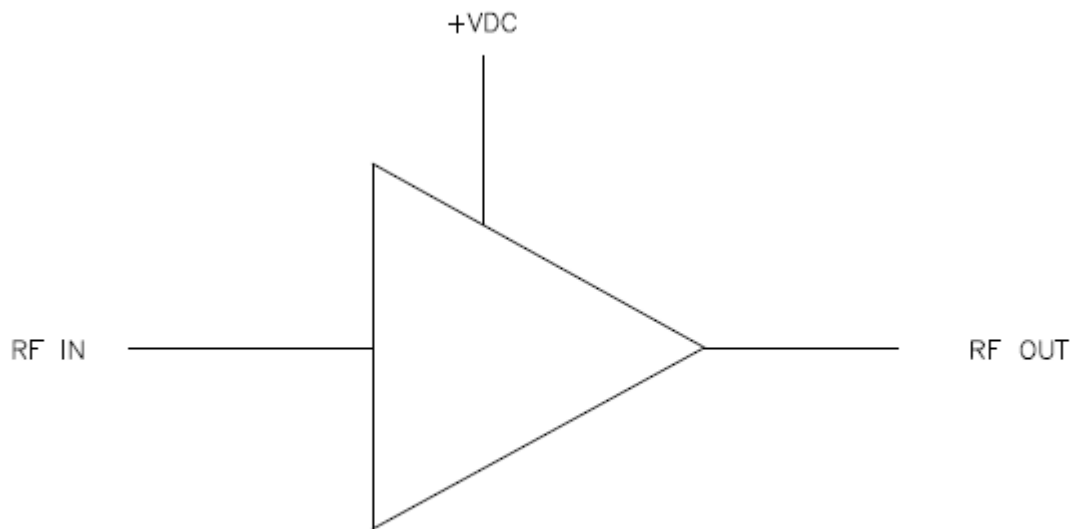


Typical Performance Curves @

■ -0°C ◆ -+25°C ▲ -+85°C



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED