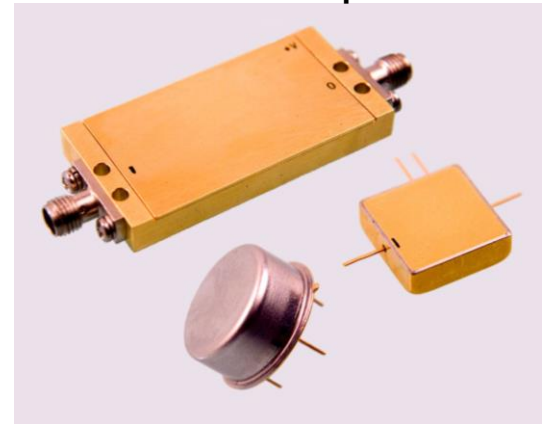


# ASC223C

## 400-2000 MHz Wideband Amplifier



### Features: (typical values)

- Very high IP3 ..... +40 dBm.
- High Gain ..... +25.0 dB.
- High IP2 ..... +55 dBm.
- Low NF ..... 3.0 dB.
- **Super Linearity**
- No external components required

### Maximum Ratings

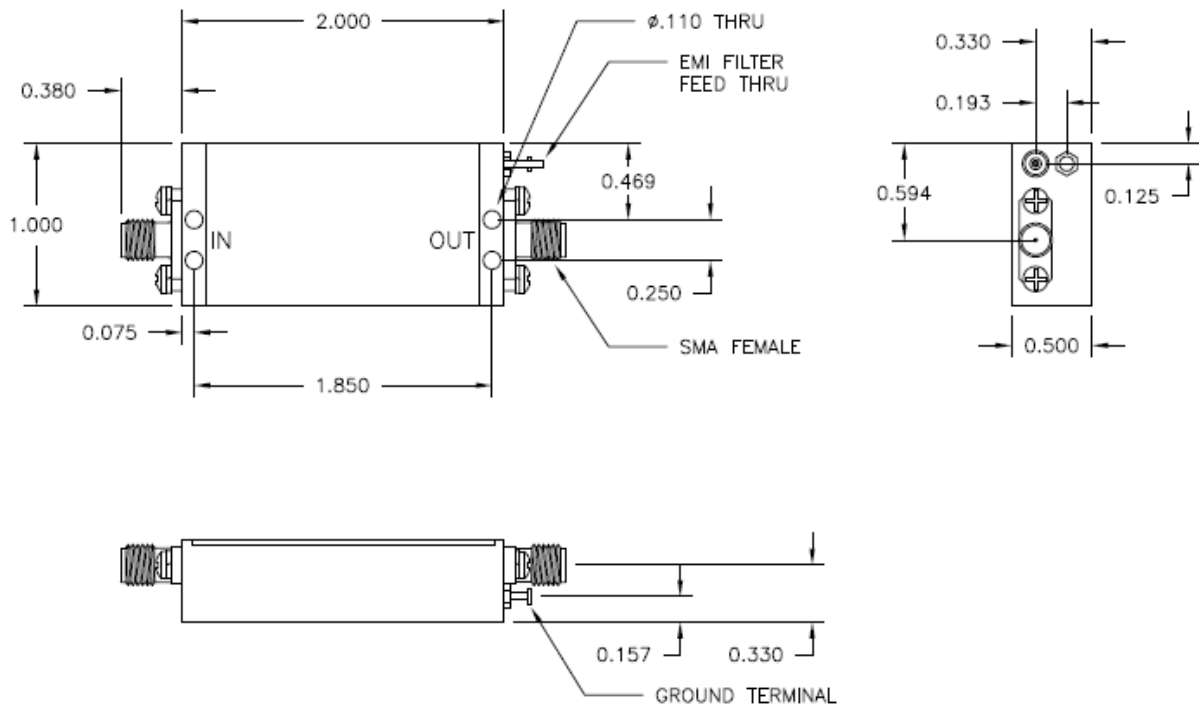
Storage Temperature ..... -62°C to +125°C  
 DC Voltage ..... +17 volts  
 RF Input Power ..... +13.0 dBm.  
 Case Temperature ..... +95°C

Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		400	2000	MHz.
Gain	25.0	23.0		dB.
Gain Flatness	±0.5		±1.0	dB.
Gain Var. over temp	0.5			ΔdB.
Pout @ 1dB Comp	+26.0	+24.0		dBm.
NF	3.0		5.0	dB.
Reverse Isolation	40.0			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone)	40/55	38/50		dBm.
HIP2 (2 <sup>nd</sup> harm.)	60.0			dBm.
VSWR In/Out	1.7:1		2.0:1	
Supply Required	+15/200		+15/250	v/mA.

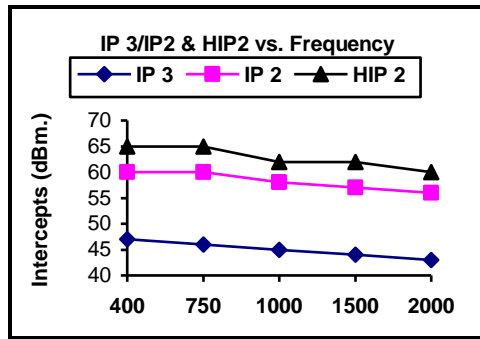
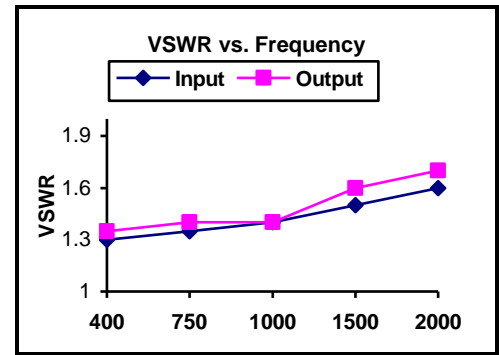
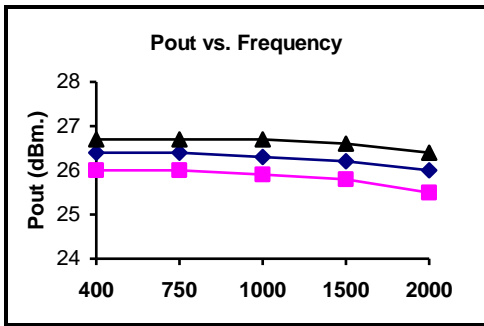
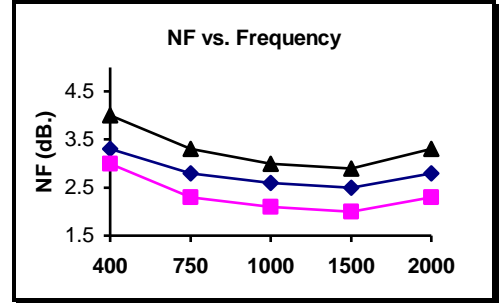
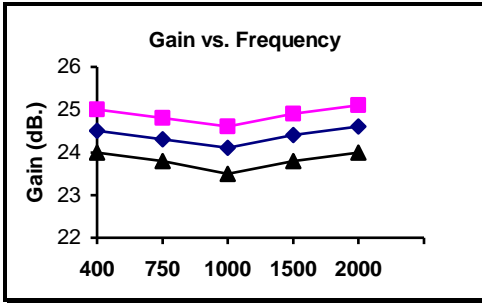
Min. and max. values are from -40°C to +85°C

# OUTLINE

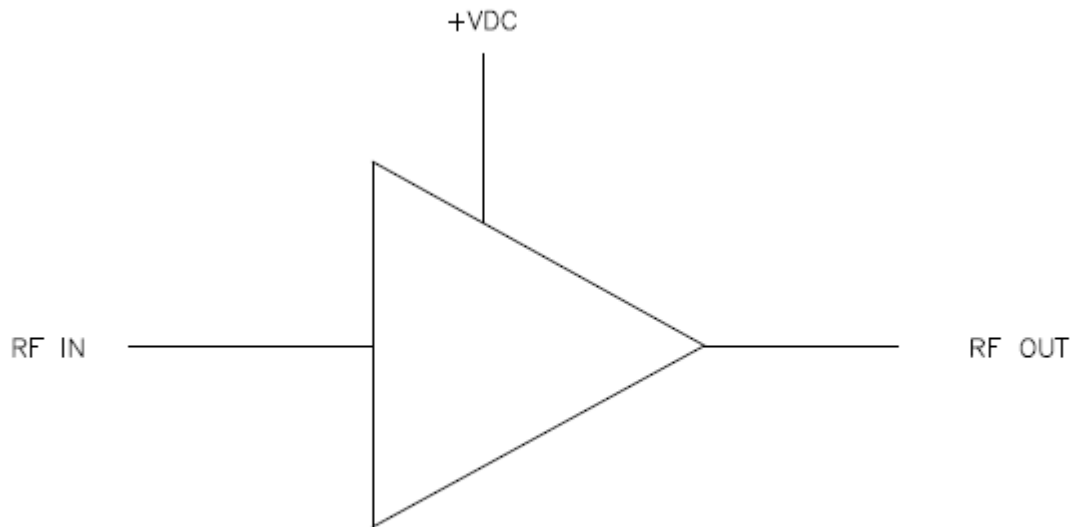


**Typical Performance Curves**

■ -40°C    ◆ -+25°C    ▲ -+85°C



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED