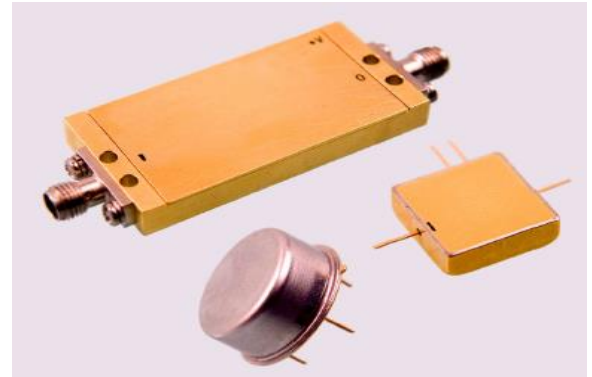


# ASC666C

### Features: (typical values)

- High Gain ..... 20 dB.
- Super Low Noise Figure ..... 1.0 dB.
- Output Power ..... +20 dBm.
- No External component required.
- Available in TO-8, SMT, Connectorize housing or per customer Requested Package
- **Available in +3V/5V/10V/12V/15V**
- No external components required

**10-2500 MHz  
Wideband Amplifier  
Gain Block  
Super Low Cost  
Super Low Noise**



### Maximum Ratings

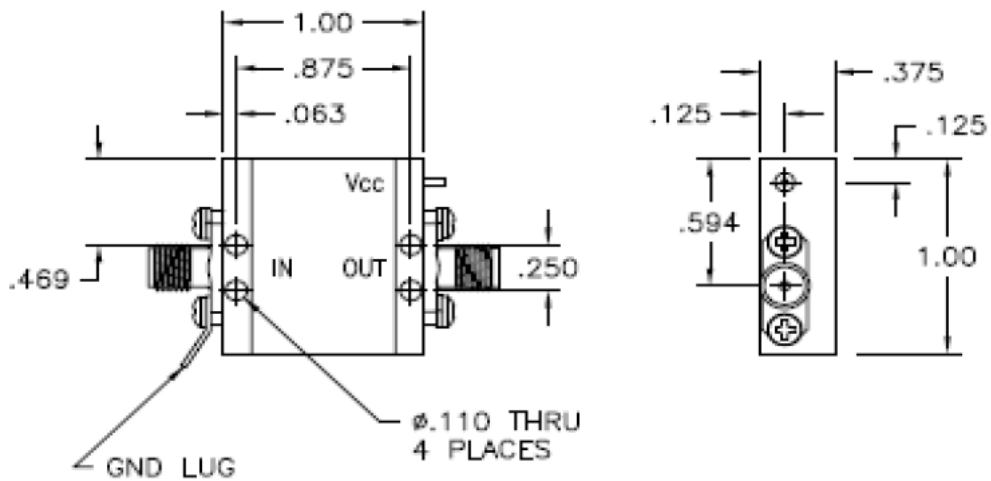
Storage Temperature ..... -62°C to +125°C  
 DC Voltage ..... +6 volts  
 RF Input Power ..... +10.0 dBm  
 Case Temperature ..... +100°C

Specifications (Referenced to 50 ohms)

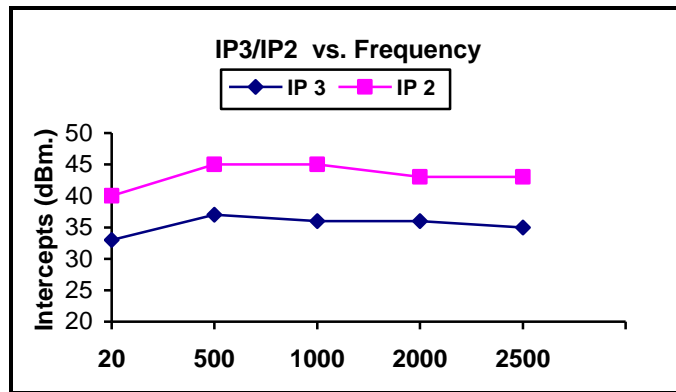
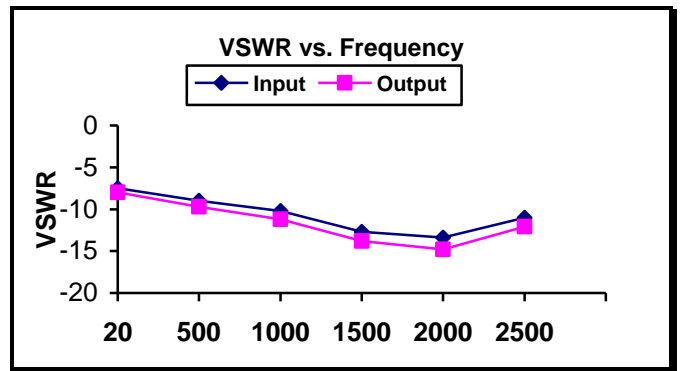
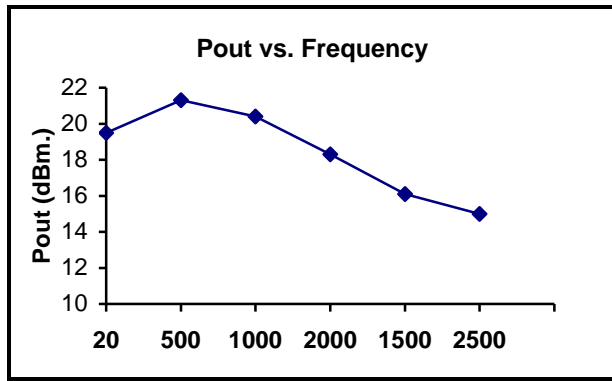
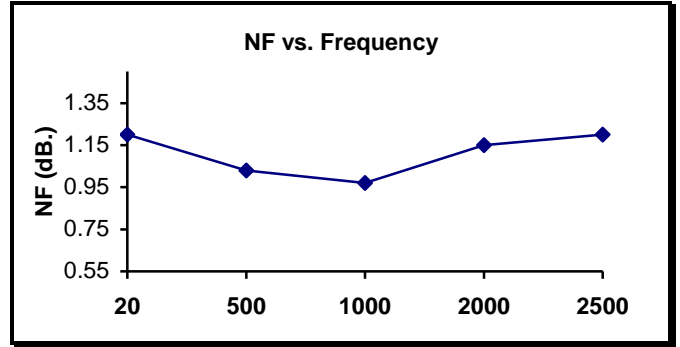
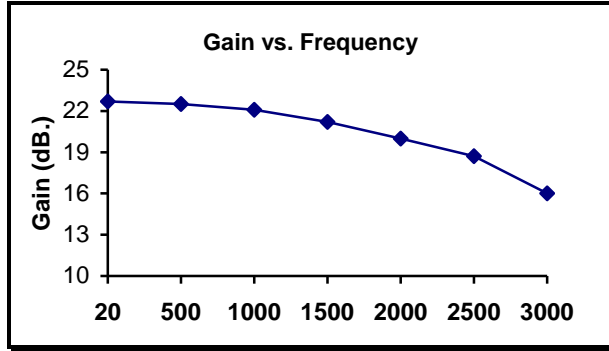
Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		10	2500	MHz.
Gain at 2 GHz	20	16.0		dB.
Gain Var. over temp	0.6			ΔdB.
Pout @ 1dB Comp	+20	+15		dBm.
Noise Figure 20-2500MHz	1.0		2.0	dB.
Reverse Isolation	25			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone)*	35/45			dBm.
VSWR In/Out 20-2500 MHz	1.8:1		2.5:1	
Supply Required	+5/70		+5/75	v/mA.

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

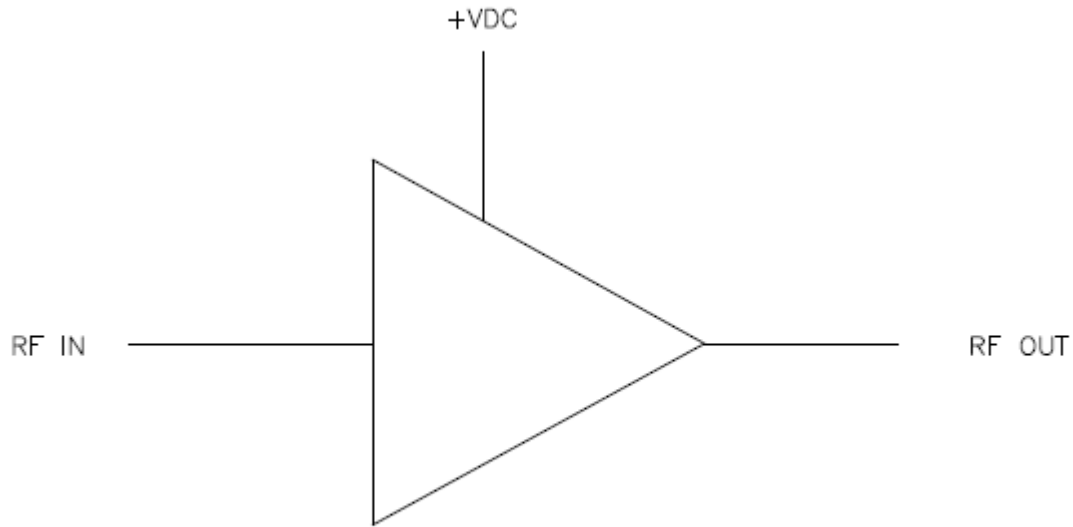
\*IP<sub>3</sub> and IP<sub>2</sub> are in band output intercept points



Typical Performance Curves @ +25c



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED