

# ASC2808C

## 2-150 MHz High Gain Amplifier



### Features: (typical values)

- SMA-F In/Out
- High Gain ..... 52 dB.
- Output Power ..... +27.0 dBm.
- Internal limiter included
- No external components required

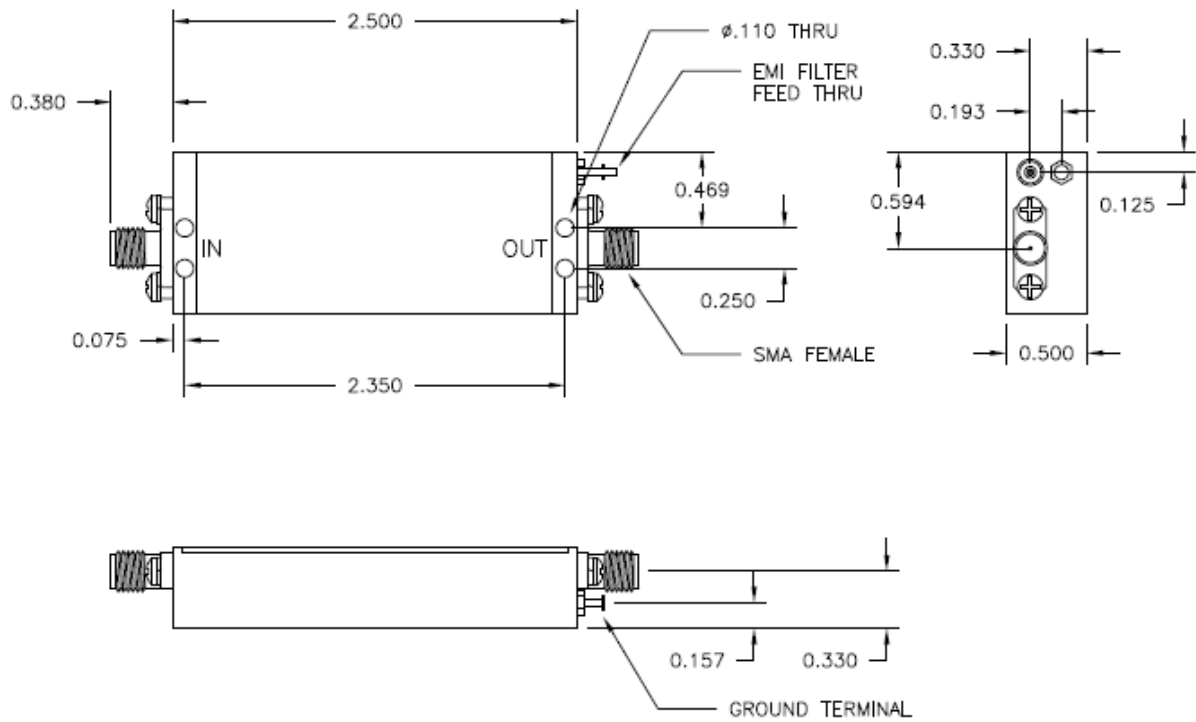
### Maximum Ratings

Operating Temperature ..... -20°C to +60°C  
 Storage Temperature ..... -20°C to +125°C  
 DC Voltage ..... +14volts  
 RF Input Power ..... +10 dBm.  
 Case Temperature ..... +95°C

Electrical Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		2	150	MHz.
Gain	52.0	50.0		dB.
Gain Flatness	±0.5		±1.0	dB.
Pout @ 1dB Comp	27.0	25.0		dBm.
VSWR (Input/Output)	1.8:1		2.0:1	dBm.
Impedance, Input/Output	50 Ohm			
Supply Required	+12/350		+12/400	v/mA.

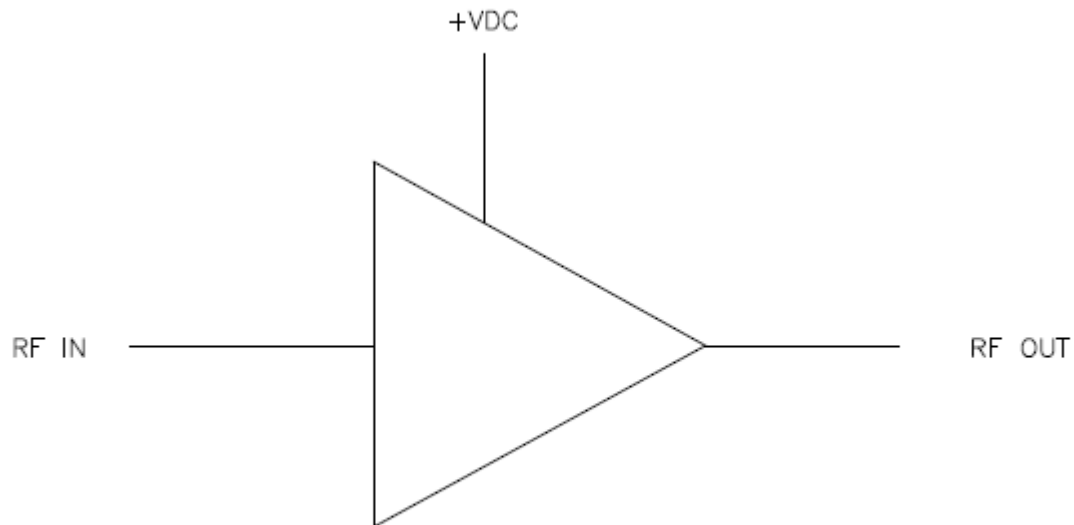
# OUTLINE



**FINAL ELECTRICAL TEST REPORT**  
**RECORD DATA @ +25°C ONLY**

TEST	LIMITS / SN	ACTUAL DATA
GAIN 2 MHz TO 150 MHz	50.0 dB min	54.5
	52.0 dB typ	55.0
GAIN FLATNESS 2 MHz TO 150 MHz	±1.0 dB max	±0.25
DC CURRENT AT +12 Vdc	400 mA max	308
SPURIOUS RESPONSE	ACCEPT/REJECT	AC
INPUT VSWR 2 MHz TO 150 MHz	2.0 : 1 max	1.55
OUTPUT VSWR 2 MHz TO 150 MHz	2.0 : 1 max	1.42
P1.0 dB COMPRESSION 2 MHz TO 150 MHz	+25.0 dBm min	26.4
STABILITY TEST FOR ALL FREQUENCY RANGE WHERE [S21] > 0 dB	0 dB max	<0

FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED