

# ASC320C

## 1800-2000 MHz Ultra Linear 7 Watts Amplifier



### Features: (typical values)

- High IP3 ..... +52.0 dBm.
- High Gain ..... + 26 dB.
- High Output Power ..... +38.0 dBm.
- No external components required

### Maximum Ratings

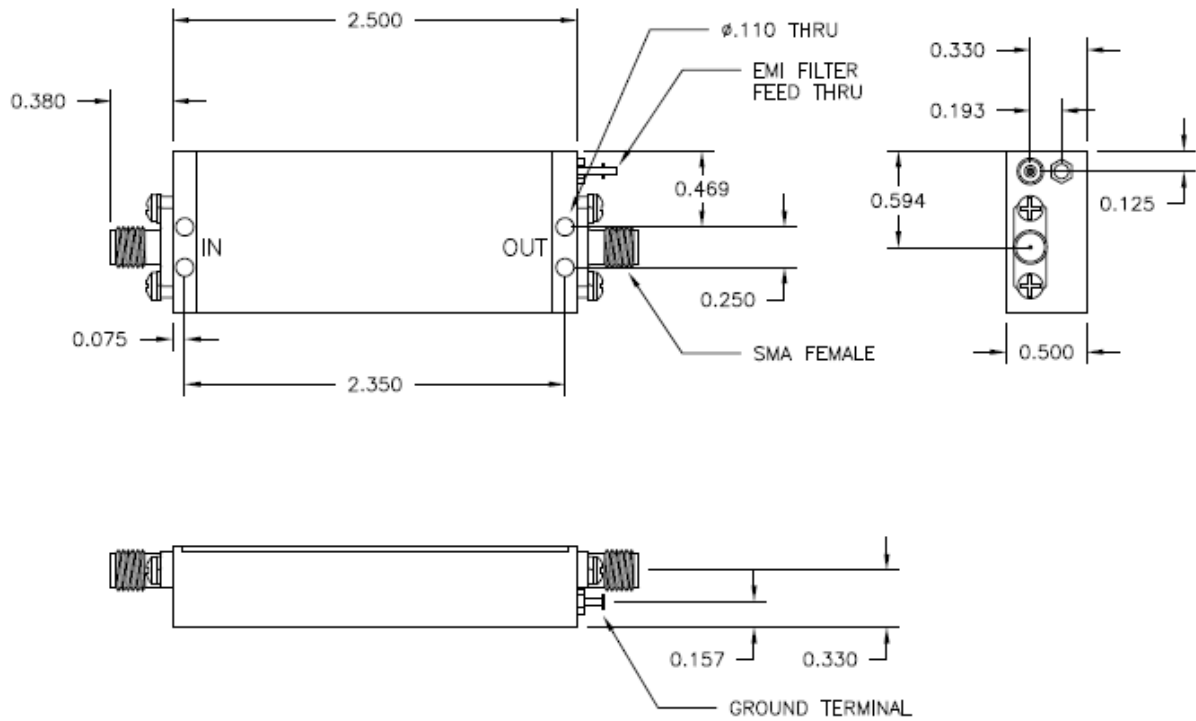
Storage Temperature ..... -40°C to +125°C  
 DC Voltage ..... +14 volts  
 RF Input Power ..... +5 dBm.  
 Case Temperature ..... +95°C

### Electrical Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		1800	2000	MHz.
Gain	26.0	24.0		dB.
Gain Flatness	±0.4		+1.0	dB.
Reverse Isolation	45			dB.
Pout @ 1dB Comp	38.0	37.0		dBm.
Noise Figure	3.0		5.0	dB.
VSWR (Input/Output)	1.8/1.9		2:1/2.5:1	dBm.
IP3 (two-tone)	+52.0	+50.0		
Supply Required	+12/1500		+12/1700	v/mA.

IP3 measured with 2 tones @+24dBm. per tone  
 Min and max values from 0 to 70 degrees C

# OUTLINE



FUNCTIONAL BLOCK DIAGRAM

