

# ASC356C

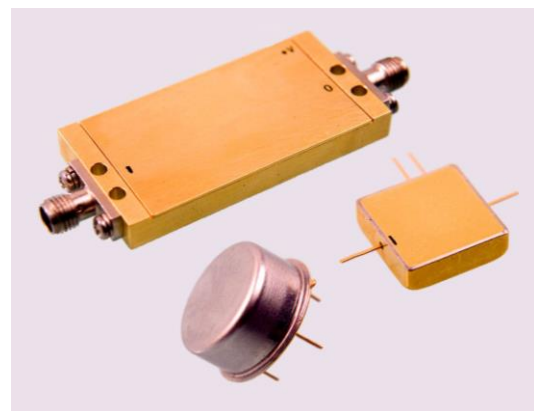
## 500-2000 MHz Linear 1 Watt Amplifier

### Features: (typical values)

- High IP3 ..... +43.0 dBm.
- Medium Gain ..... + 35 dB.
- Medium Output Power ..... +30.0 dBm.
- No external components required

### Maximum Ratings

Storage Temperature ..... -40°C to +125°C  
 DC Voltage ..... +17 volts  
 RF Input Power ..... +5 dBm.  
 Case Temperature ..... +95°C

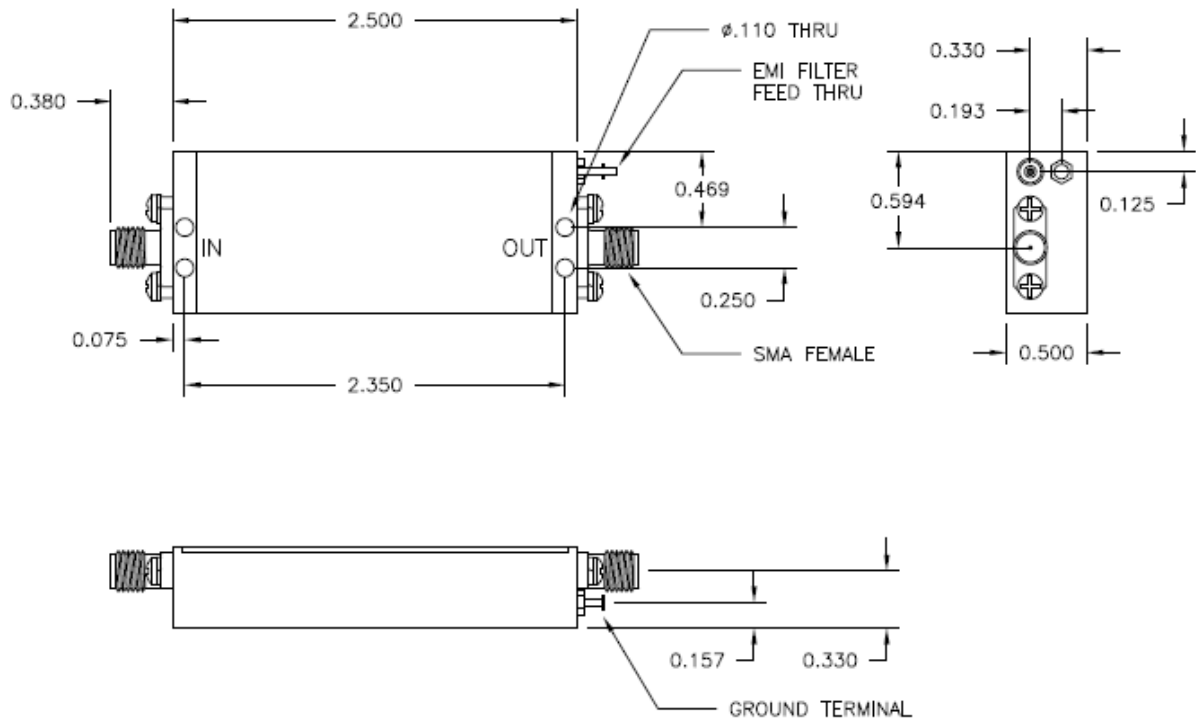


Electrical Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		500	2000	MHz.
Gain	36	34		dB.
Gain Flatness	±0.4		+/-1.0	dB.
Reverse Isolation	46			dB.
Pout @ 1dB Comp	30	28		dBm.
Noise Figure	3.0		5.0	dB.
VSWR (Input/Output)	1.8:1		2.0:1	dBm.
IP3 (two-tone)	+40.0	+38.0		
Supply Required	+15/990		+15/1000	v/mA.

IP3 measured with 2 tones @+15dBm. per tone  
 Min and max values from 0 to 70 degrees C  
**Require 10uF at Vcc line.**

# OUTLINE



FUNCTIONAL BLOCK DIAGRAM

