

# ASC2802C

## 1626-1675 MHz Ultra Linear 10 Watts Amplifier

### Features: (typical values)

- High IP3 ..... +49.0 dBm.
- High Gain ..... + 42 dB.
- High Output Power ..... +40.0 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

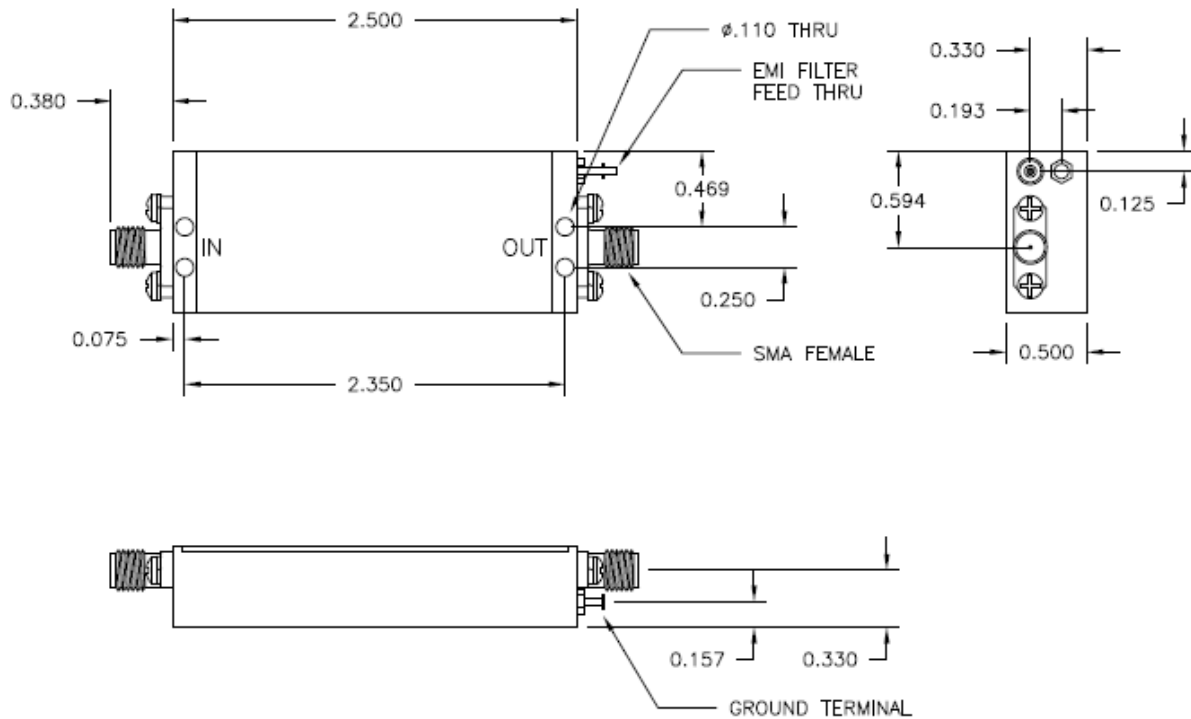


### Electrical Specifications (Referenced to 50 ohms)

| Parameter           | Typical Conditions | Min Value | Max Value | Units |
|---------------------|--------------------|-----------|-----------|-------|
| Frequency           |                    | 1626      | 1675      | MHz.  |
| Gain                | 42.0               | 40.0      |           | dB.   |
| Gain Flatness       | ±0.4               |           | ±1.0      | dB.   |
| Reverse Isolation   | 45                 |           |           | dB.   |
| Pout @ 1dB Comp     | 40.0               | 39.0      |           | dBm.  |
| Noise Figure        | 3.0                |           | 5.0       | dB.   |
| VSWR (Input/Output) | 2.0                |           | 2.5:1     | dBm.  |
| IP3 (two-tone)      | +49.0              | +47.0     |           |       |
| Supply Required     | +12/1800           |           | +12/2000  | v/mA. |

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

# OUTLINE



FUNCTIONAL BLOCK DIAGRAM

