

# ASC2496C

**1.0-400 MHz  
Amplifier**



**Features: (typical values)**

- Bandwidth ..... 1.0-400 MHz.
- Power Out ..... 30 dBm.
- Medium Gain ..... 30 dB.
- Reverse Polarity Protection Optional
- No external components required

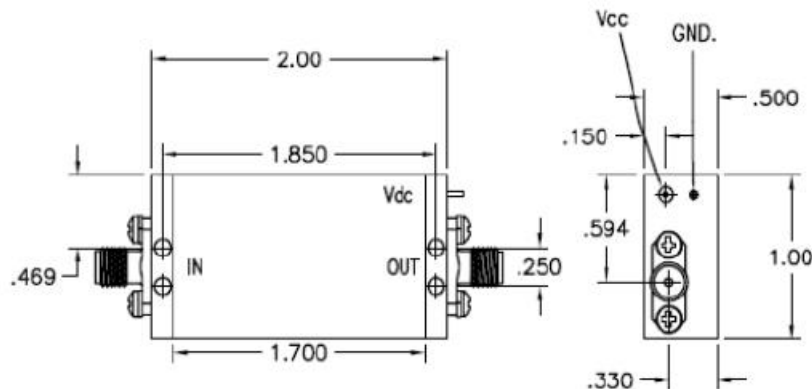
**Maximum Ratings**

Storage Temperature ..... -62°C to +125°C  
 DC Voltage ..... +24 volts  
 RF Input Power ..... +10 dBm.  
 Case Temperature ..... +100°C

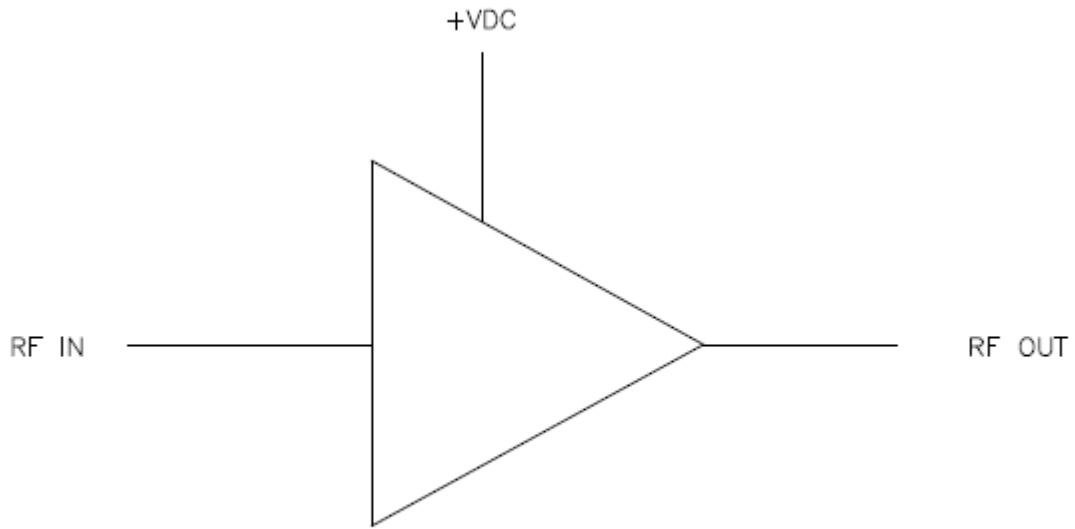
Specifications (Referenced to 50 ohms)

| Parameter                   | Typical Conditions | Min Value | Max Value | Units |
|-----------------------------|--------------------|-----------|-----------|-------|
| Frequency                   |                    | 1.0       | 400       | MHz.  |
| Gain                        | 30                 | 28        |           | dB.   |
| Gain Flatness               | ±0.50              |           | ±1.0      | dB.   |
| Gain Var. over temp         | 0.6                |           |           | ΔdB.  |
| Pout @ 1dB Comp             | +30                | +28       |           | dBm.  |
| Noise Figure                | 5.0                |           | 6.0       | dB.   |
| Reverse Isolation           | 40                 |           |           | dB.   |
| IP <sub>3</sub> (two-tone)* | 43                 | 40        |           | dBm.  |
| VSWR In/Out                 | 1.8:1              |           | 2.0:1     |       |
| Supply Required             | +24/320            |           | +24/350   | v/mA. |

Min. and max. Values are from -40°C to +75°C



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED