

## Features: (typical values)

- Output Power – .. 23dbm. @ 1dB. compression,
- NF..... 4.0 dB.
- GAIN ..... 22.0 dB.
- Unconditional Stability
- No external components required

## Maximum Ratings

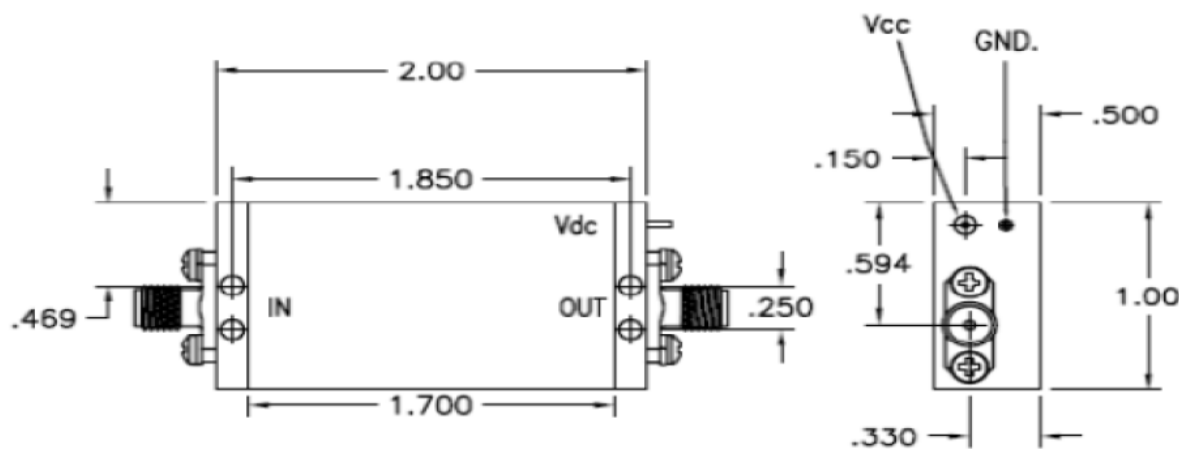
Storage temperature ..... -55°C to +125°C  
 DC Operating Voltage ..... +12.0 volts  
 RF Input Voltage ..... +24dBm. Max.  
 Operating Base Temp. .... 0 to +85°C  
 No damage Temp ..... -54°C to +85°C

## 500-6000 MHz Casscade Amplifier

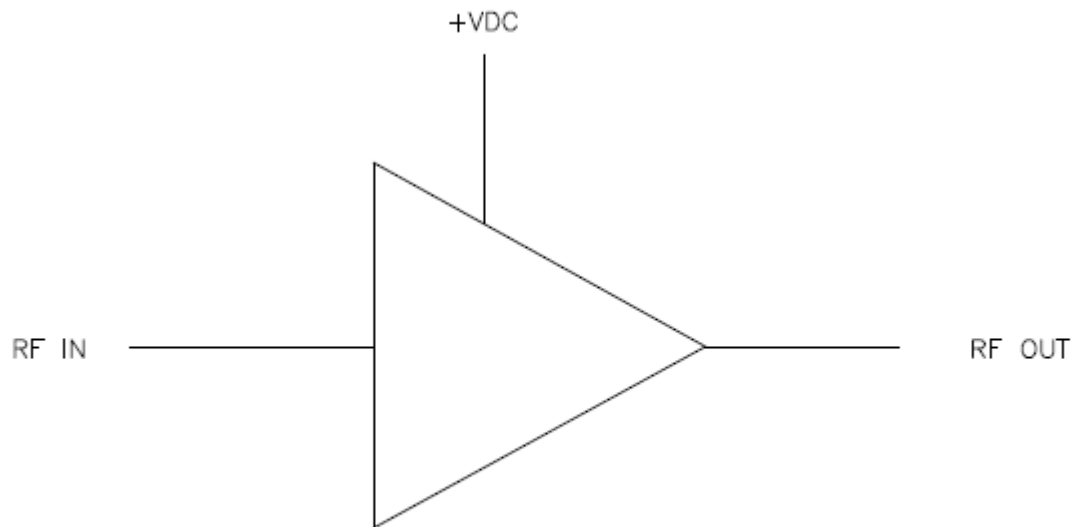


Specifications @ Tcase = 25°C, Vcc = 12V, 50 ohm systems unless otherwise noted.

| Parameter                                    | Typical Conditions | Min Value | Max Value | Units |
|----------------------------------------------|--------------------|-----------|-----------|-------|
| Frequency Range                              |                    | 500       | 6000      | MHz.  |
| Power Gain                                   | 22.0               | 19        | 24        | dB.   |
| Gain Flatness                                | ±1.0               |           | ±1.5      | dB.   |
| Input VSWR                                   | 1.8                |           | 2.1:1     | -     |
| Output VSWR                                  | 1.8                |           | 2.1:1     | -     |
| Reverse Isolation                            | 45.0               |           |           | dB    |
| Noise Figure                                 | 4.5                |           | 5.5       | dB.   |
| Power Output- 1dB Compression                | 23                 | 22        |           | dBm.  |
| Third Order Intercept (IP3)@ 12 dBm per tone | 33                 | 30        |           | dBm.  |
| Second Order Intercept (IP2)                 | 50                 | 45        |           | dBm.  |
| Supply Current @ 12 Volts                    | 245                |           | 260       | mA.   |



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED