

## Features: (typical values)

- Output Power – .. 23dbm. @ 1dB. compression,
- NF..... 2.5 dB.
- GAIN ..... 42 dB.
- Unconditional Stability
- No external components required

## 2000-8000 MHz Casscade Amplifier



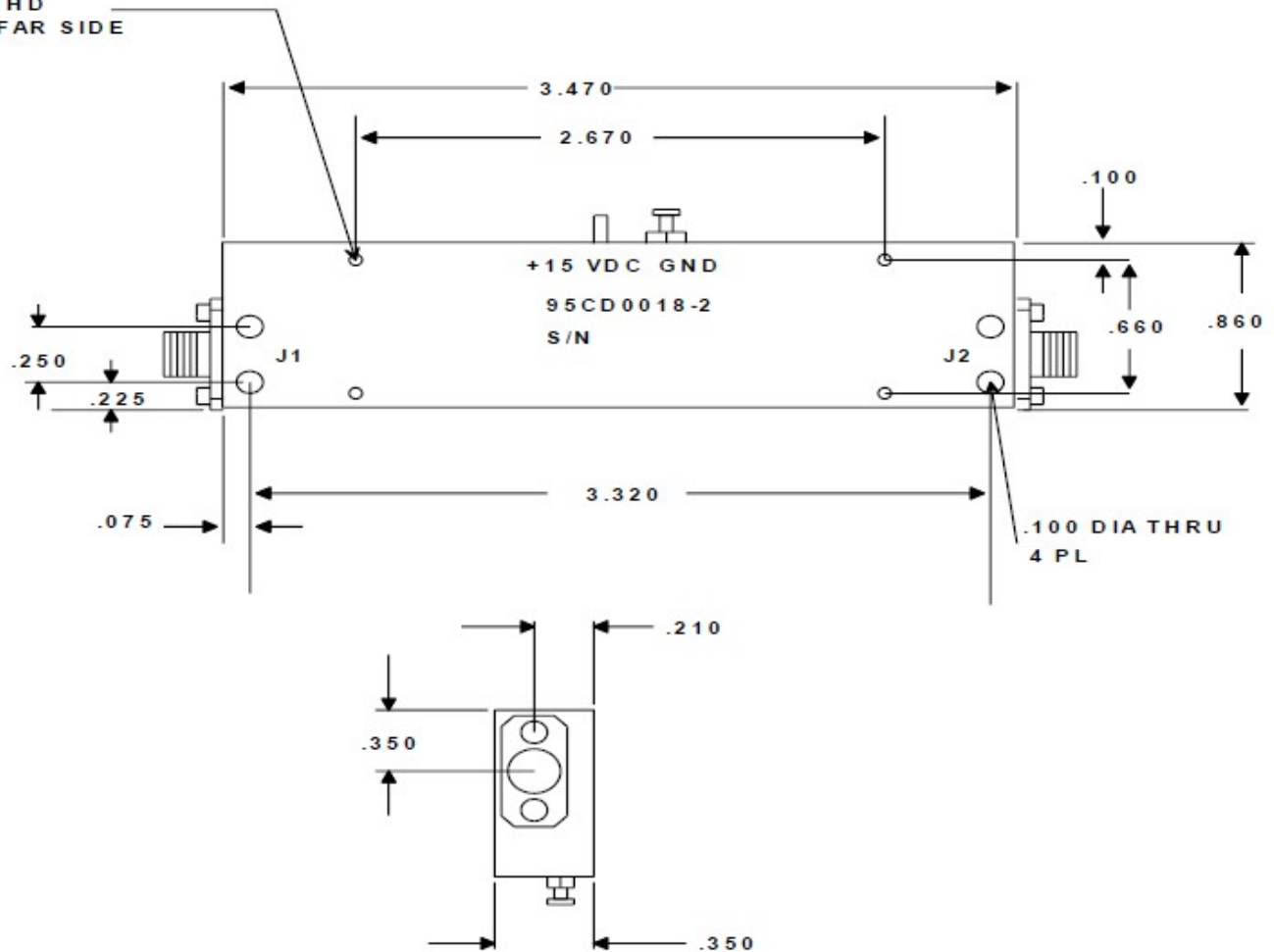
## Maximum Ratings

Storage temperature ..... -55°C to +125°C  
 DC Operating Voltage ..... +15.0 volts  
 RF Input Power ..... +30dBm. Max.  
 Operating Base Temp. .... 0 to +65°C  
 No damage Temp ..... -62°C to +85°C

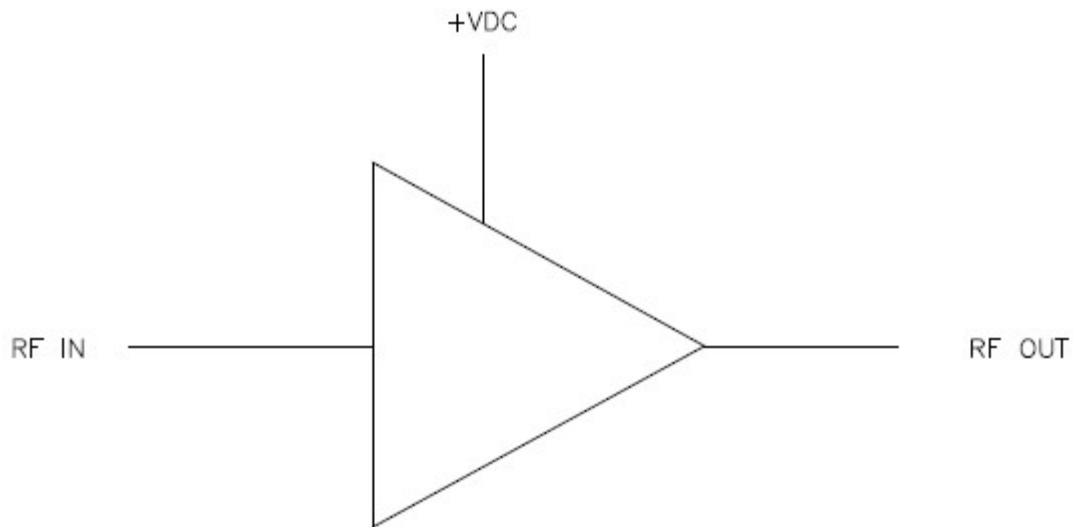
Specifications @ Tcase = 25°C, Vcc = 15V, 50 ohm systems unless otherwise noted.

| Parameter                                          | Typical Conditions | Min Value | Max Value | Units |
|----------------------------------------------------|--------------------|-----------|-----------|-------|
| Frequency Range                                    |                    | 2000      | 8000      | MHz.  |
| RF Gain                                            | 42                 | 40        | 44        | dB.   |
| Gain Flatness                                      | ±0.7               |           | ±1.0      | dB.   |
| Input VSWR                                         | 1.8                |           | 2.0:1     | -     |
| Output VSWR                                        | 1.8                |           | 2.0:1     | -     |
| Reverse Isolation                                  | 45.0               |           |           | dB    |
| Noise Figure                                       | 2.5                |           | 3.0       | dB.   |
| Power Output- 1dB Compression                      | 24                 | 23        |           | dBm.  |
| IP3 @ 3 & 13 dBm per tone                          | 34                 | 33        |           | dBm.  |
| Second Order Intercept (IP2) @ 3 & 13 dBm per tone | 45                 | 43        |           | dBm.  |
| RF Input Power                                     |                    |           | 30        | dBm.  |
| Supply Current @ 15 Volts                          | 600                |           | 650       | mA.   |
| Operating Temperature 0 to +65C                    |                    |           |           |       |

2-56 X .09  
MIN THD  
4 PL FAR SIDE



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED