

# ASC654

## 500-2000 MHz Cascadable Amplifier

### Features: (typical values)

- Wide Band ..... 4.0 dB.
- Med Power ..... 15 dB.
- No external components required

### Maximum Ratings

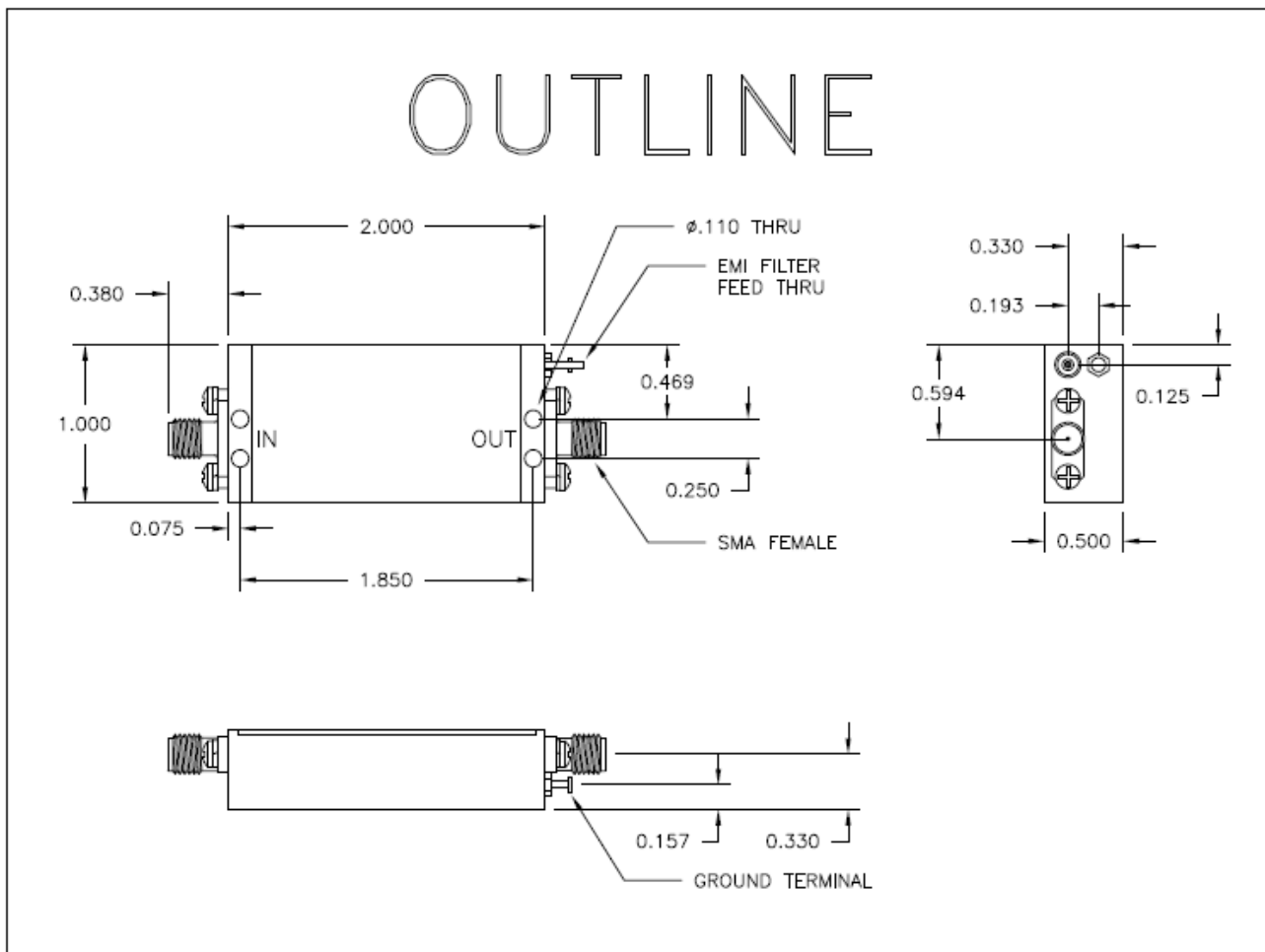
Storage Temperature ..... -62°C to +125°C  
 DC Voltage ..... +17 volts  
 RF Input Power ..... +7.0 dBm.  
 Case Temperature ..... +100°C



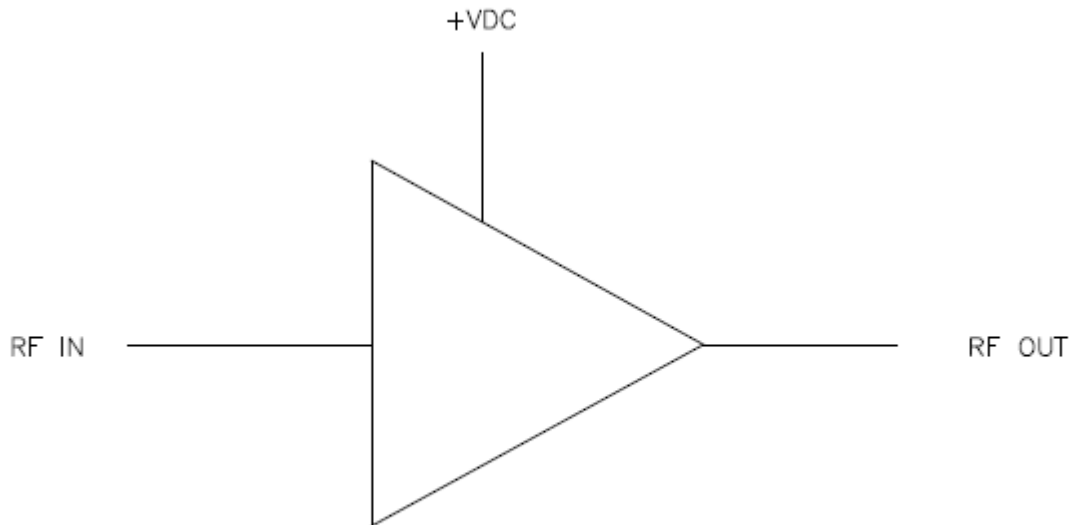
### Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		500	2000	MHz.
Gain	16	14		dB.
Gain Flatness	±0.3		±0.5	dB.
Gain Var. over temp	0.6			ΔdB.
Pout @ 1dB Comp	+26	+25		dBm.
Noise Figure	4.0		5.0	dB.
Reverse Isolation	25			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone)*	40/50	38/45		dBm.
HIP2 (2 <sup>nd</sup> harm.)	55			dBm.
VSWR In/Out	1.5:1		2.0:1	
Supply Required	+15/200		+15/260	v/mA.

Min. and max. values are from -55°C to +85°C  
 \*IP<sub>3</sub> and IP<sub>2</sub> are in band output intercept points



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED