

ASC3093C

**500 – 3000 MHz
Low Distortion Amplifier**

Features: (typical values)

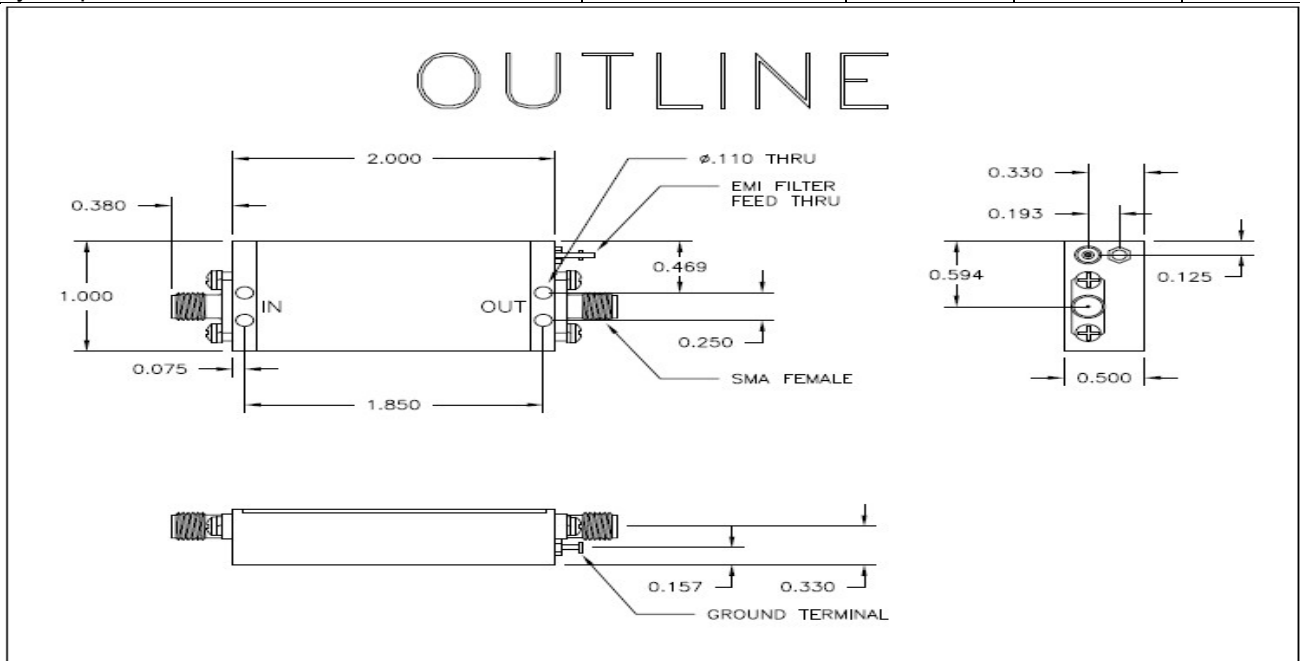
- P1dB +26 dBm.
- IP3 +38 dBm.
- Gain 20 dB.
- No external components required

Maximum Ratings

Operating Temperature -20°C to +75°C
 Storage Temperature -40°C to +125°C
 DC Voltage +14 volts
 RF Input Signal +20 dBm.
 Case Temperature +100°C

Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		500	3000	MHz.
Gain	20	19		dB.
Gain Flatness Full Band	±0.50		±1.0	dB.
Pout @ P1dB	+26	+25		dBm.
Noise Figure	2.5		3.0	dB.
Output IP3	+38	+37		dBm
Output IP2	+55	+52		dBm
VSWR In/Out	1.8:1		2.0:1	Ratio
Impedance, Input/Output	50 Ohm			
Supply Required	+12/350		+12/650	v/mA.



FUNCTIONAL BLOCK DIAGRAM

