

ASC3104C

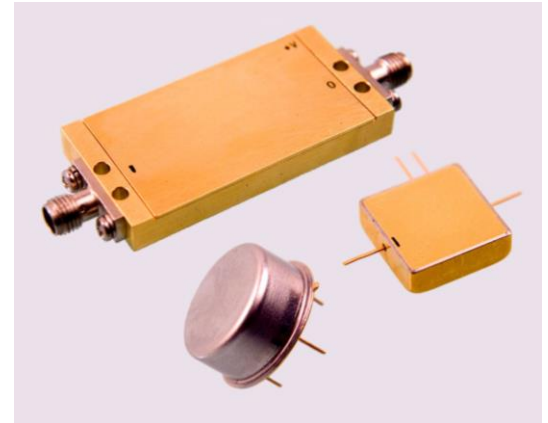
9.4-10 GHz Low Noise Figure Amplifier

Features: (typical values)

- Output Power + 12 dBm.
- Low Noise 1.2 dB.
- High Gain +28 dB.
- No external components required
- Reverse Voltage protection

Maximum Ratings

Storage Temperature -62°C to +125°C
 DC Voltage +16volts
 RF Input Power CW +15 dBm.
 Max Peak Power , Pulse > 1us.....+17dbm
 Case Temperature +95°C

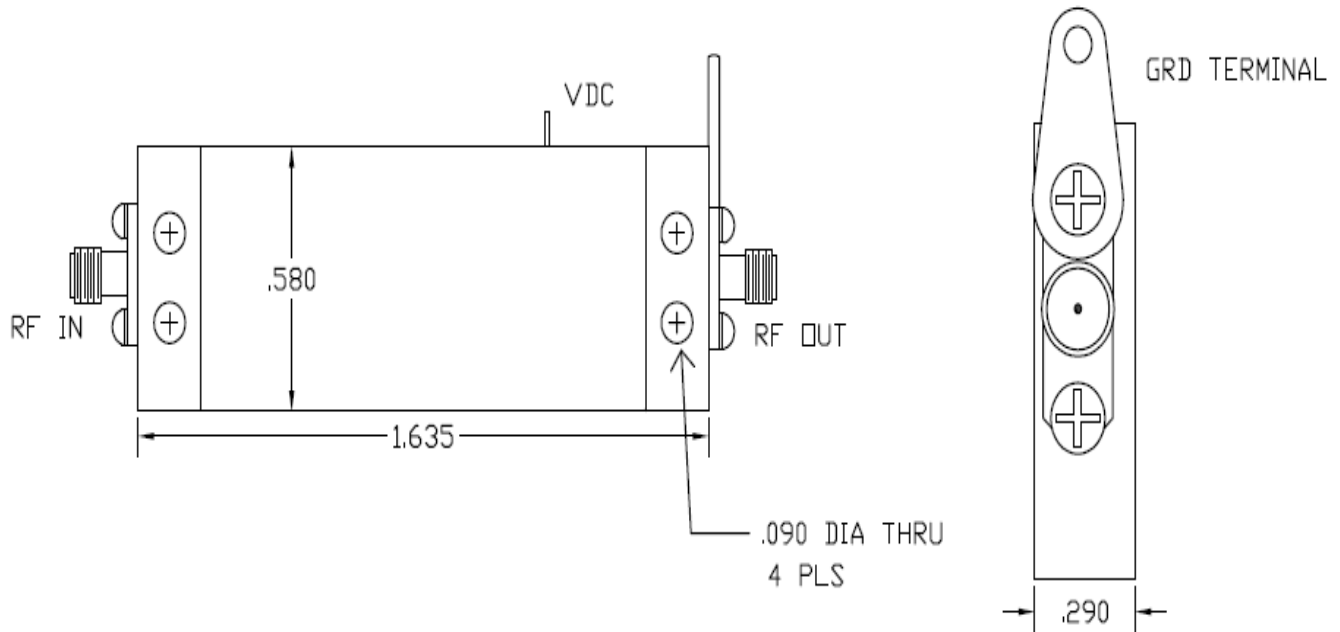


Specifications (Referenced to 50 ohms Impedance)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		9.4	10	GHz.
Gain @25C	28	27.4	28.6	dB.
Gain Flatness @ 60MHz	±0.20		±0.20	dB.
Reverse Isolation	47	45		dB.
Phase Matching	±12		±15	Deg
Pout @ 1dB Comp	+12	+10		dBm.
NF	1.2		1.4	dB.
IP3	20			dBm.
Input/Output VSWR	1.4		1.5:1	Ratio
Supply Required	+15/70		+15/150	v/mA.

Min. and max. values are from 0°C to +70°C
 Unconditional stability

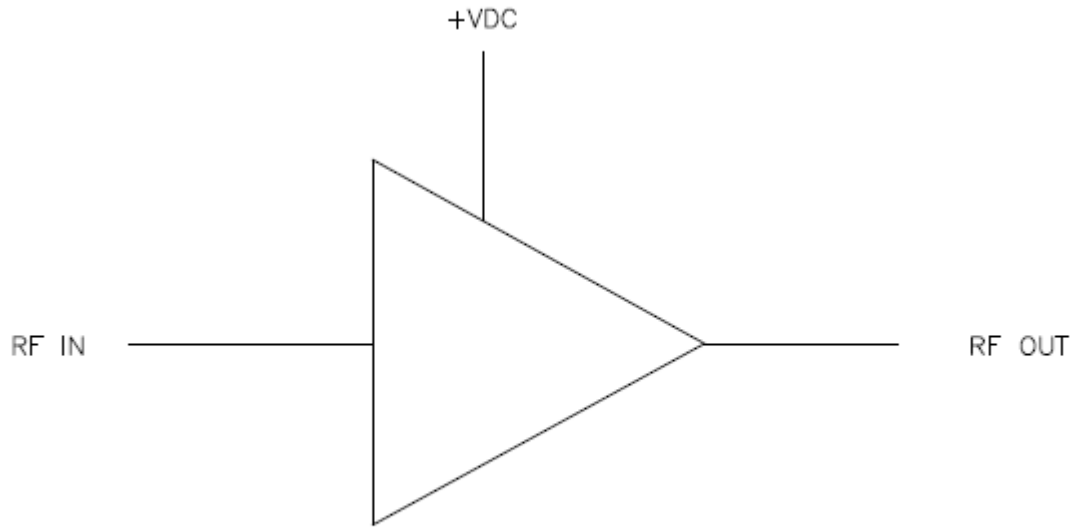
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FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED