

ASC2781C

20-3000 MHz Ultra Linear Amplifier



Features: (typical values)

- High Gain 30 dB.
- Low Noise Figure 1.5 dB.
- No external components required

Maximum Ratings

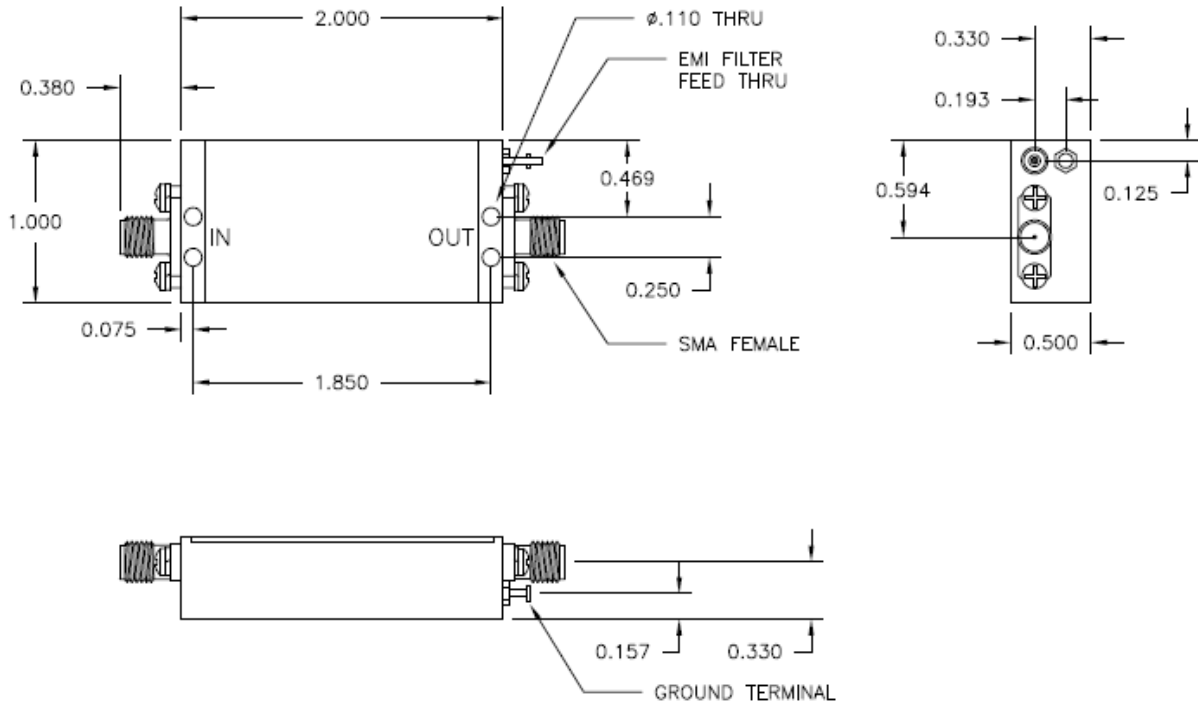
Storage Temperature -62°C to +125°C
 DC Voltage +17 volts
 RF Input Power -10.0 dBm.
 Case Temperature +100°C

Specifications (Referenced to 50 ohms)

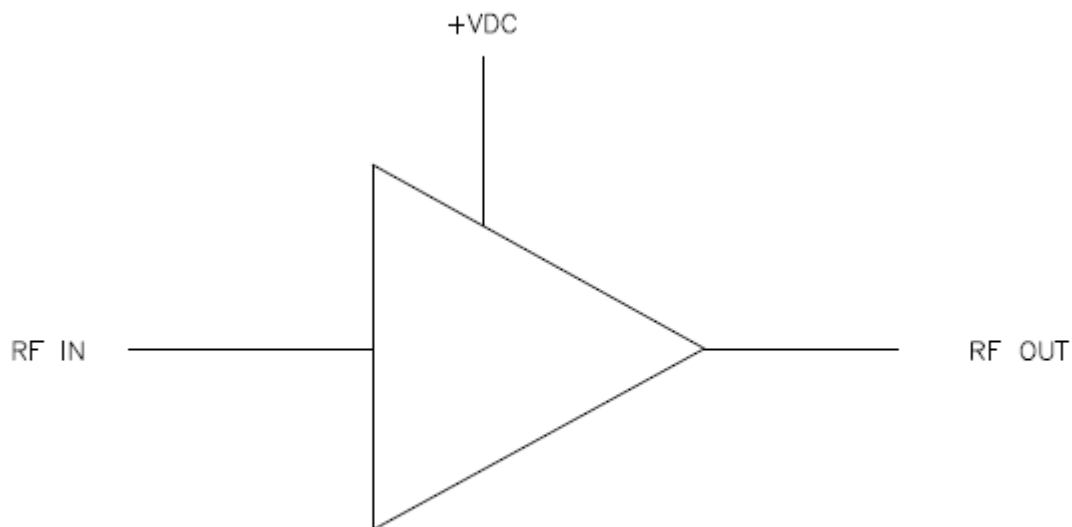
Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		20	3000	MHz.
Gain	30	28		dB.
Gain Flatness	±0.7		±1.0	dB.
Gain Var. over temp	0.6			ΔdB.
Pout @ 1dB Comp	+10	+5		dBm.
Noise Figure	0.2 to 2.6GHz .02 to .2 GHz	1.5 6.0	1.8	dB.
Reverse Isolation	40			dB.
IP3 (two-tone)	20	15		dBm.
VSWR In/Out	1.8:1		2.0:1	
Voltage Supply	+15V		+15	V
Current Supply	100mA			A

Min. and max. values are from -20°C to +70°C

OUTLINE



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED