

# ASC2770C

## 20-550 MHz Ultra Linear Amplifier



### Features: (typical values)

- High Power ..... 31.5 dBm.
- Low Noise Figure ..... 3.0 dB.
- Medium Gain ..... 22 dB.
- No external components required

### Maximum Ratings

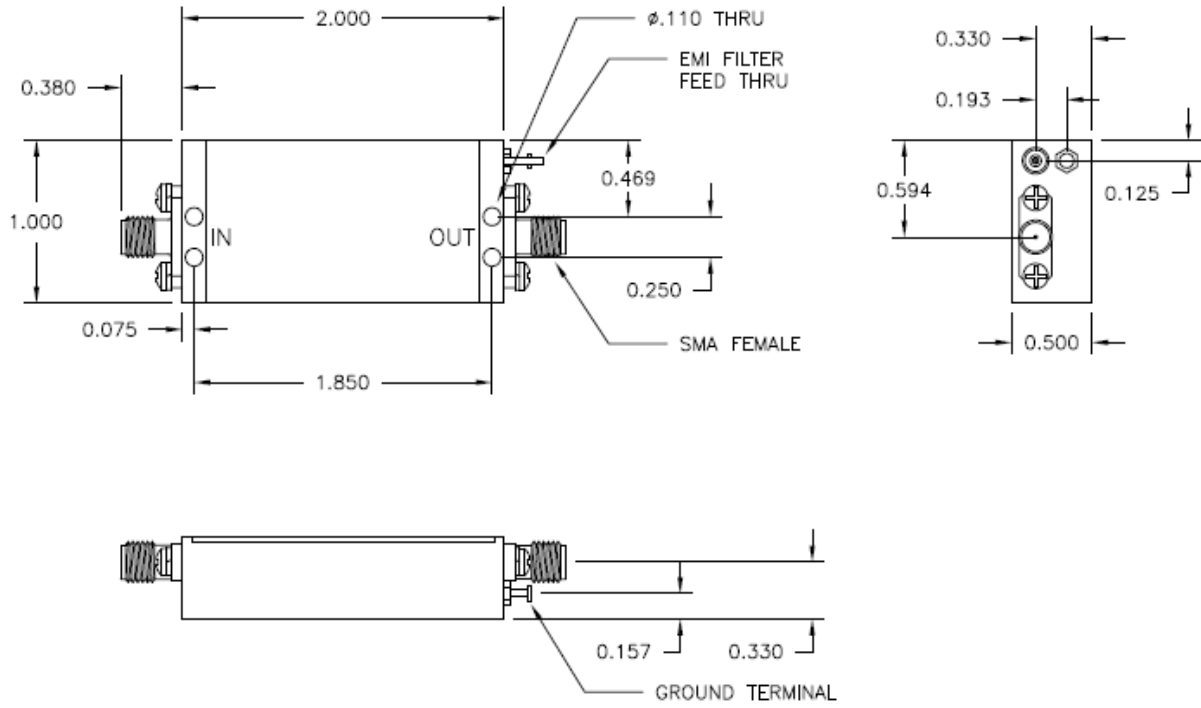
Storage Temperature ..... -62°C to +125°C  
 DC Voltage ..... +26 volts  
 RF Input Power ..... +30.0 dBm.  
 Case Temperature ..... +100°C

### Specifications (Referenced to 50 ohms)

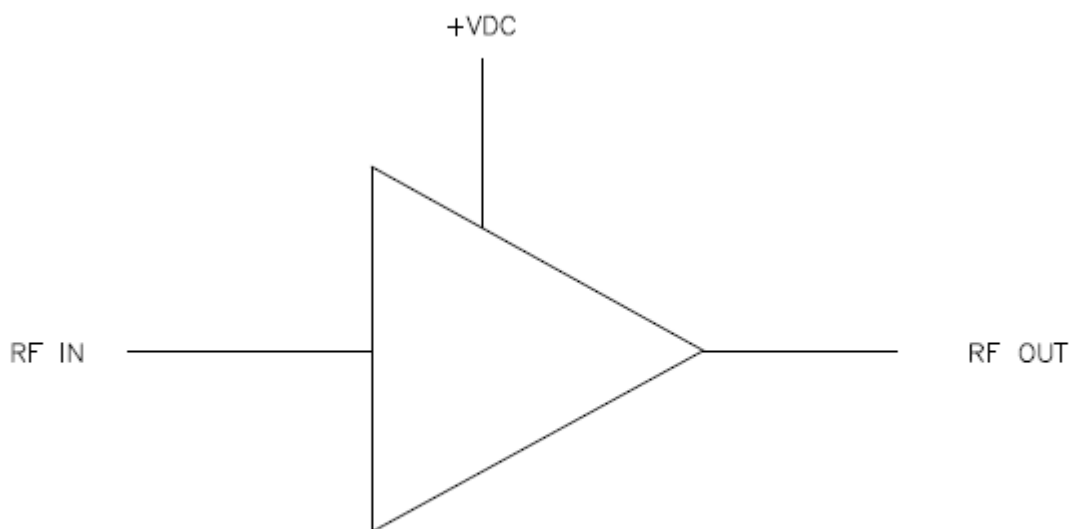
Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		20	550	MHz.
Gain	22	21	23	dB.
Gain Flatness	±0.3		±0.5	dB.
Gain Var. over temp	0.6			ΔdB.
Pout @ 1dB Comp	+31.5	+31		dBm.
Noise Figure	3.0		4.0	dB.
Reverse Isolation	30			dB.
IP3 (two-tone) @ +15dbm per tone	50	48		dBm.
IP2 (two-tone) @ +15dbm per tone	80	75		dBm.
VSWR In/Out	1.8:1		2.0:1	
Supply Required	+24/400		+24/440	v/mA.

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

# OUTLINE



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED