

# ASC2689C

## 10-2000 MHz Wideband Amplifier



### Features: (typical values)

- Bandwidth ..... 10-2000 MHz.
- Power Out ..... 26.0 dBm.
- Gain ..... 37 dB.
- Noise Figure..... 4.0 dB.
- IP<sub>3</sub> ..... 36 dBm.
- No external components required

### Maximum Ratings

Storage Temperature ..... -62°C to +125°C  
 DC Voltage ..... +12 volts  
 RF Input Power ..... -8 dBm.  
 Case Temperature ..... +100°C

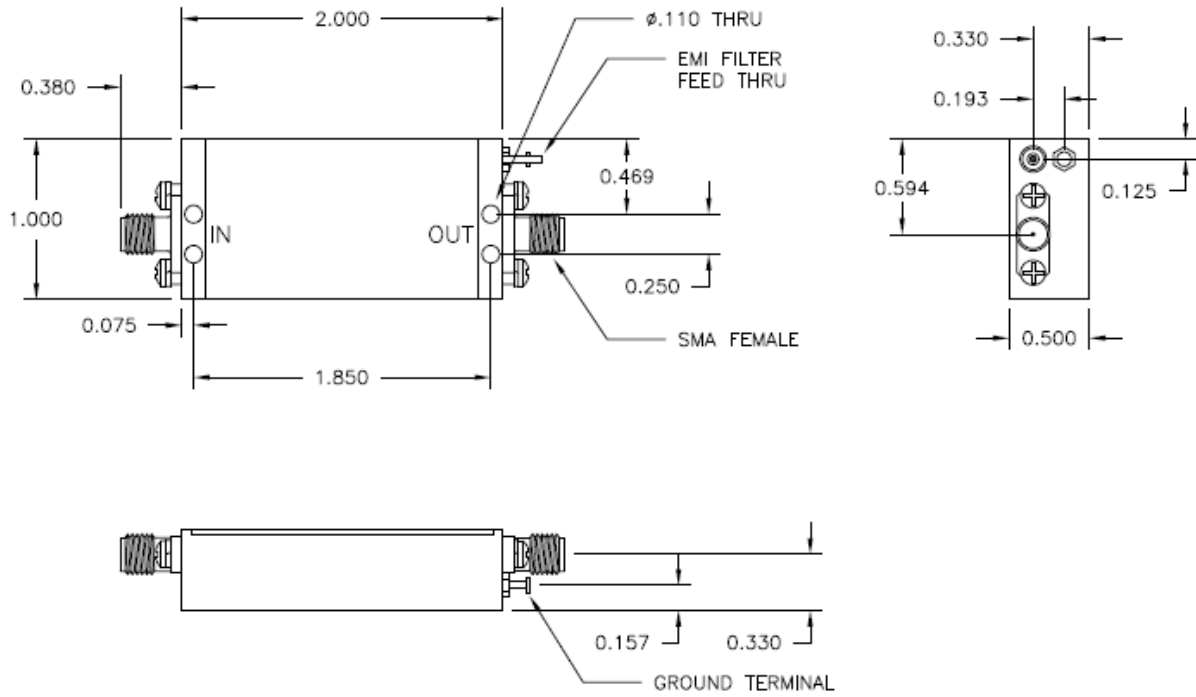
Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		10	2000	MHz.
Gain	37	35	40	dB.
Gain Flatness	±0.5		±1.0	dB.
Gain Var. over temp	1.0			ΔdB.
Pout @ 1dB Comp	+26	+25		dBm.
Noise Figure	4.0		5.0	dB.
IP <sub>3</sub>	36	33		dBm.
VSWR In/Out	1.8:1		2.0:1	
Supply Required	+12/430		+12/450	v/mA.

Min. and max. Values are from 0°C to +70°C

Parts compliant with MIL-STD-883

# OUTLINE



FUNCTIONAL BLOCK DIAGRAM

