



AMPLIFIER SOLUTIONS CORPORATION

ASC312

Features: (typical values)

- High IP3 +52.0 dBm.
- High Gain + 26 dB
- High Output Power +40.0 dBm.
- Low cost

Maximum Ratings

Storage Temperature -40°C to +125°C
 DC Voltage +14 volts
 RF Input Power +15 dBm.
 Case Temperature +95°C

1800-2000 MHz Ultra Linear 10 Watts Amplifier



Electrical Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		1800	2000	MHz.
Gain	26.0	24.0		dB.
Gain Flatness	±0.4		+1.0	dB.
Reverse Isolation	45			dB.
Pout @ 1dB Comp	39.0	38.0		dBm.
Noise Figure	3.0		5.0	dB.
VSWR (Input/Output)	1.8/1.9		2:1/2.5:1	dBm.
IP3 (two-tone)	+50.0	+48.0		
Supply Required	+12/2000		+12/2200	v/mA.

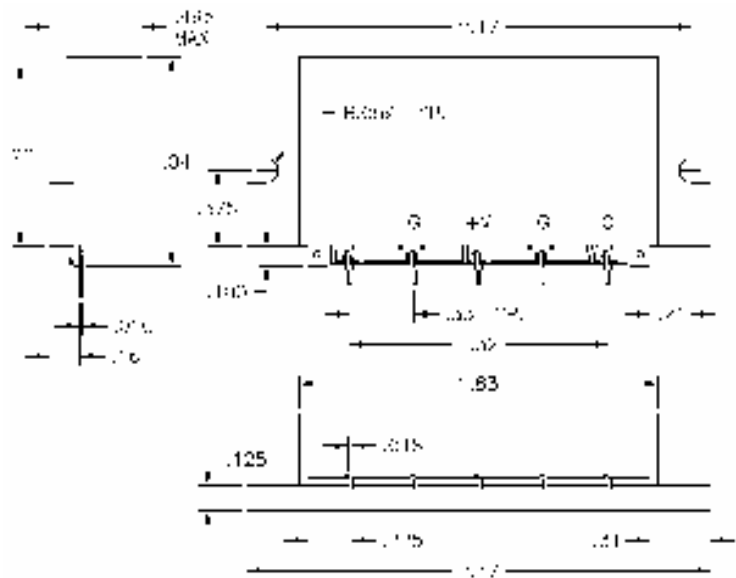
IP3 measured with 2 tones @+30dBm. per tone

Min and max values from 0 to 70 degrees C

Require 10uF at Vcc line.

Pin Configuration

Pin #	Description
1	Input
2,4	Ground
3	Vcc
5	Output



Typical Performance Curves @ 25°C

