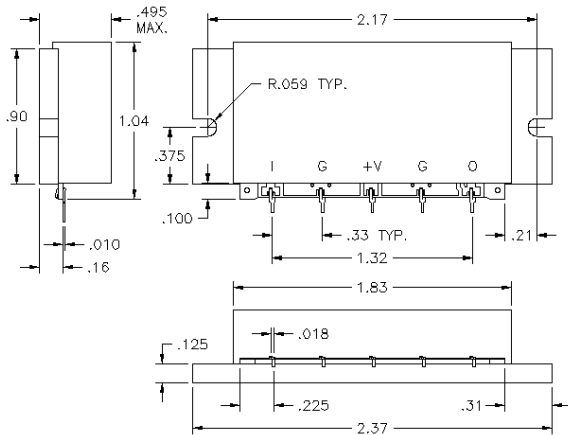


**ASC302 800-960 MHz. Ultra Linear 4 Watt Amplifier**

Typical Performance Curves @ 25°C



**Features: (typical values)**

- High IP3 ..... +52.0 dBm.
- Low NF ..... 2.3 dB.
- High Output Power ..... +36.2 dBm.
- Low Cost
- No external components required

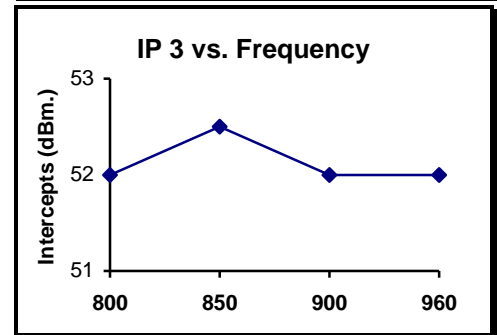
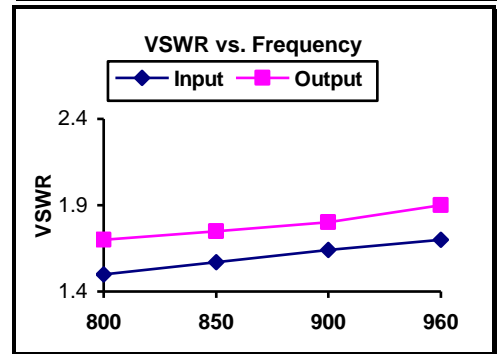
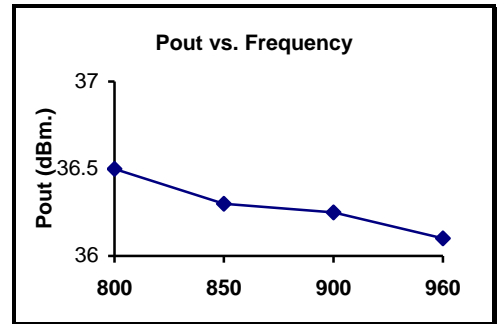
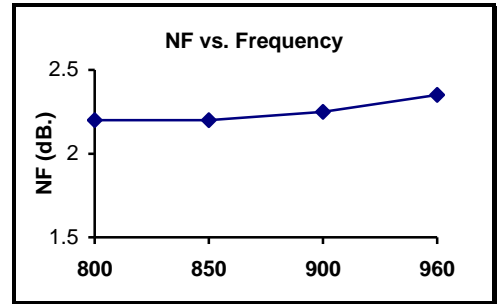
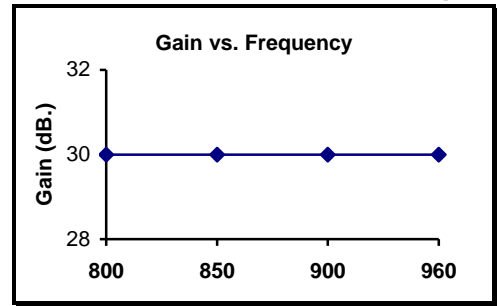
**Specifications (Referenced to 50 ohms)**

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		800	960	MHz.
Gain	30.0	28.0		dB.
Gain Flatness	±0.4		±1.0	dB.
Reverse Isolation	45			dB.
Pout @ 1dB. Comp.	36.2	35.5		dBm.
Noise Figure	2.3		3.7	dB.
VSWR (Input/Output)	1.6/1.9		2:1/2.5:1	
IP3 (two tone)	+52.0	+50.0		dBm.
Supply Req'd	+10/1400		+10/1600	v./mA.

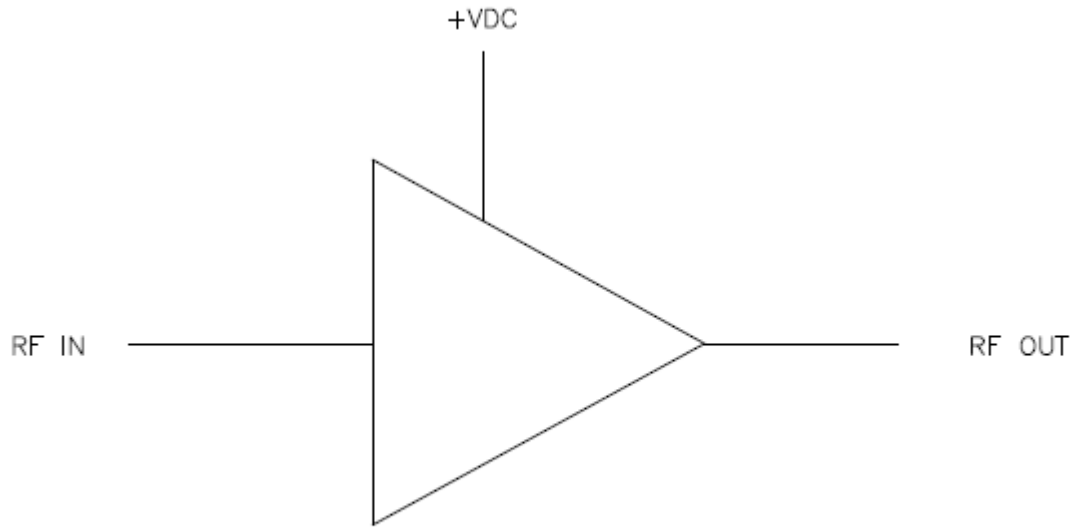
IP3 measured with 2 tones @+22 dBm. per tone  
Min and max values from 0 to 70 degrees C

**Maximum Ratings**

- Storage Temperature ..... -40°C to +125°C
- DC Voltage ..... +12 volts
- RF Input Power ..... +5 dBm.
- Case Temperature ..... +95°C



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED