

# PA1110

## 1800-2000 MHz.

### Ultra Linear Power Amplifier



### M/A-COM



#### Features (typical values)

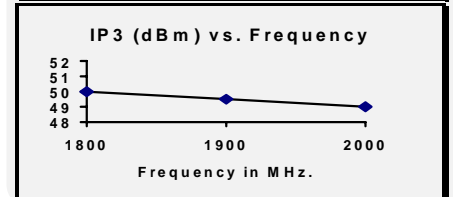
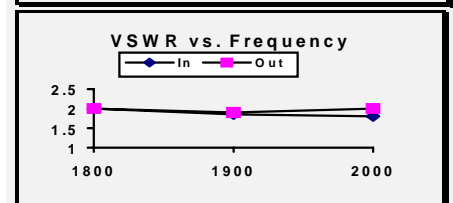
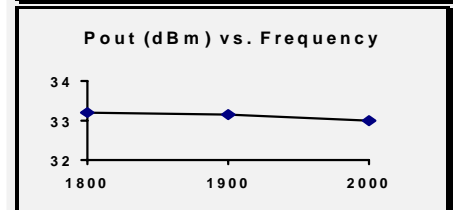
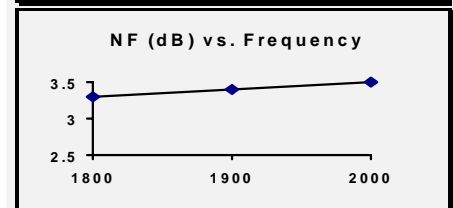
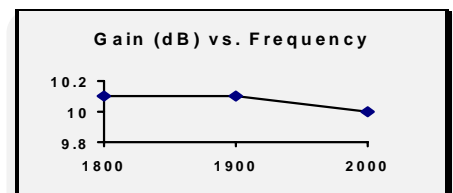
High Output Power ..... +33.0 dBm.  
 High IP3 ..... +50.0 dBm.  
 Low NF ..... 3.2 dB.  
 Low Cost

#### Electrical Specifications (Referenced to 50 ohms)

| Parameter           | Typical Value | Min. Value | Max. Value | Units  |
|---------------------|---------------|------------|------------|--------|
| Frequency           |               | 1800       | 2000       | MHz.   |
| Gain                | 10.0          | 8.5        |            | dB.    |
| Gain Flatness       | ±0.3          |            |            | dB.    |
| Reverse Isolation   | 15            |            |            | dB.    |
| Pout @ 1dB. comp.   | 33.0          | 32.0       |            | dBm.   |
| Noise Figure        | 3.5           |            | 4.0        | dB.    |
| IP3 (two tone)      | +50.0         | +46.0      |            | dBm.   |
| VSWR (Input/Output) | 2.0:1         |            | 2.5:1      |        |
| Supply Req'd        | +10/725       |            | +10/775    | v./mA. |

IP3 measured with 2 tones @+20dBm. per tone  
 Min and max values from 0 to 85 degrees C

#### Typical Performance @ 25C



#### Outline Drawings

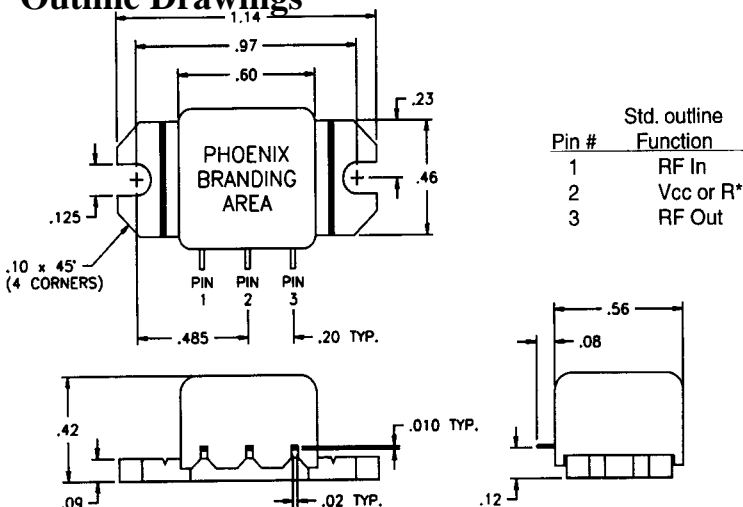


Figure 50

#### Maximum Ratings

Storage Temperature ..... -40°C to +85°C  
 DC Voltage ..... +12 volts  
 RF Input Power ..... +28 dBm.  
 Case Temperature ..... +95°C