

**PA1152      1800 -2000 MHz.**  
**Ultra Low Noise Linear Power Amplifier**



**Features (typical values)**

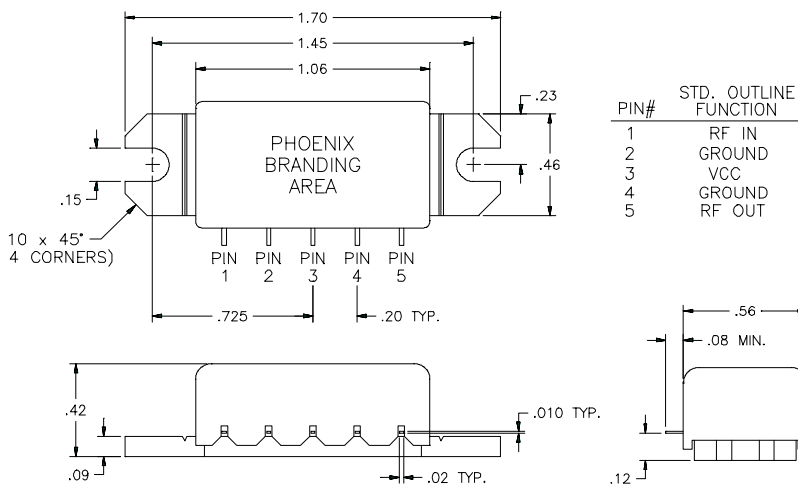
Low Noise ..... **0.5 dB.**  
 High Frequency Operation. .... 2000 MHz  
 Low Current ..... 20 mA.  
 Low Cost

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

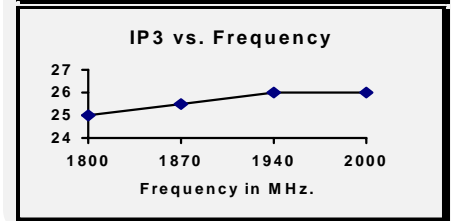
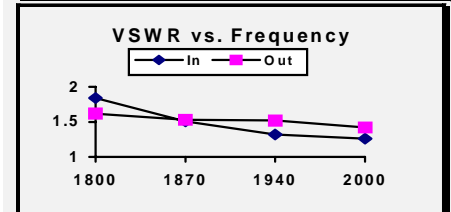
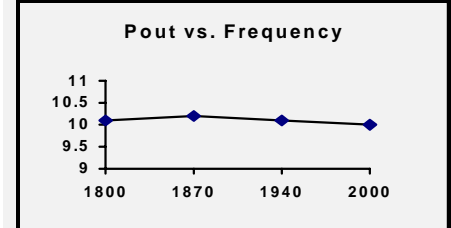
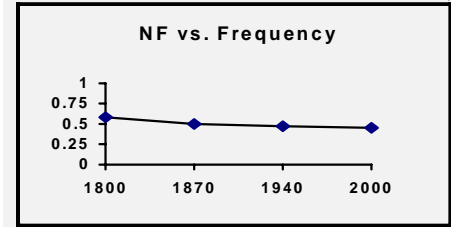
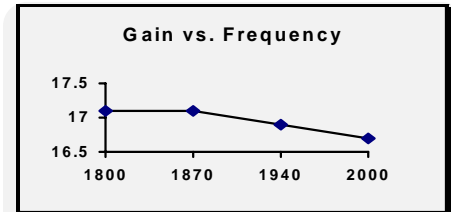
Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		1800	2000	MHz.
Gain	17.0	15.5		dB.
Gain Flatness	±0.3		±0.5	dB.
Reverse Isolation	20			dB.
Pout @ 1dB. comp.	10.0	9.0		dBm.
Noise Figure	0.5		0.8	dB.
IP3	+23.0	+20.0		dBm.
VSWR	1.8:1		2.0:1	
Supply Req'd	+5/20		+5/25	v./mA.

IP3 measured with 2 tones @ -5dBm. per tone spaced 1 MHz. apart  
 Min and max values from 0 to 85 degrees C

**Outline Drawings**



**Typical Performance Curves**



**Maximum Ratings**

Storage Temperature ..... -40°C to +125°C  
 DC Voltage ..... +7 volts  
 RF Input Power ..... +10 dBm.  
 Case Temperature ..... +95°C