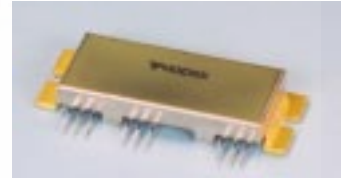


PA1166 1930-1990 MHz. 6 Watt 28v. GaAs Ultra Linear Power Amplifier



Features (typical values)

High IP3 +53.0 dBm.
Low NF 3.0 dB.
High Output Power +37.5 dBm.
Low Cost

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		1930	1990	MHz.
Gain	26.0	23.0		dB.
Gain Flatness	+/- 0.3			dB.
Pout @ 1dB. comp.	38	37		dBm.
Noise Figure	2.7		4.0	dB.
ACPR (30kHz. BW)*	-54.0			dBc.
VSWR (Input/Output)	1.5:1/2:1		2:1/3:1	
IP3 (two tone)**	+53.0	+48.0		dBm.
Supply Required***	+28/1000		+28/1200	v./mA.

* $\pm 850\text{kHz}$ from f_c at power level of 30dBm. (IS-95)

** IP3 measured with 2 tones @+24dBm. per tone @ 1MHz apart

*** A 10 micro farad capacitor is required from pin3 (+V) to ground
Min and max values from 0 to 85 degrees C

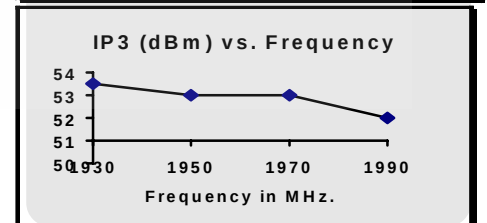
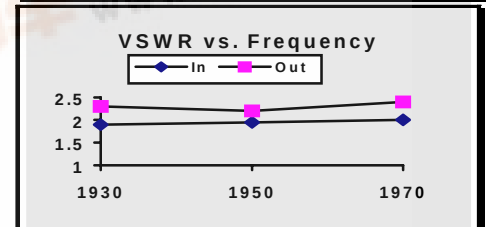
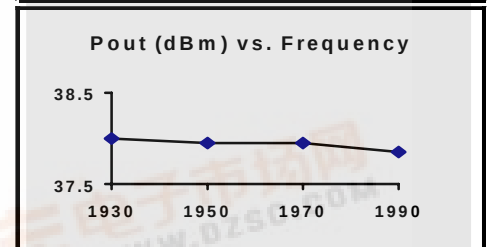
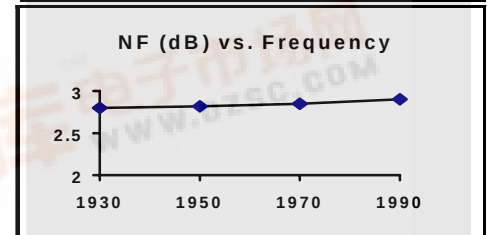
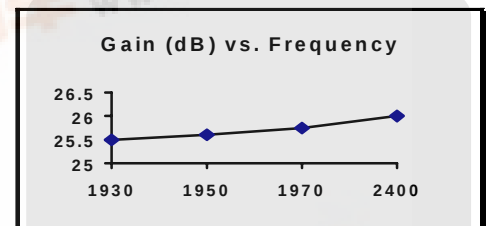
Outline Drawings

See Attached Document

Maximum Ratings

Storage Temperature -40°C to +125°C
DC Voltage +30 volts
RF Input Power +15 dBm.
Case Temperature +90°C

Typical Performance @+ 25°C

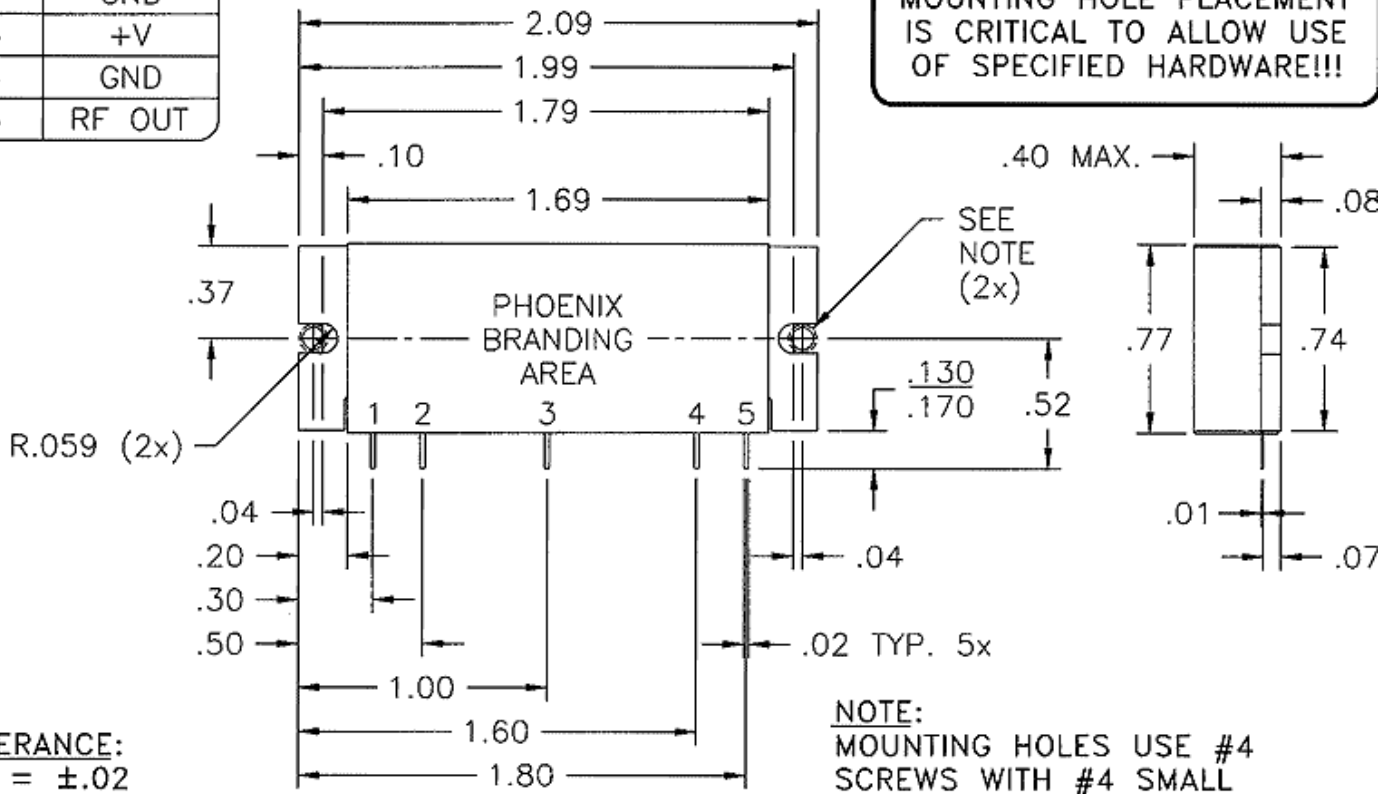


OUTLINE DRAWING

PIN	FUNCTION
1	RF IN
2	GND
3	+V
4	GND
5	RF OUT

IMPORTANT!

MOUNTING HOLE PLACEMENT
IS CRITICAL TO ALLOW USE
OF SPECIFIED HARDWARE!!!



TOLERANCE:

$$\overline{.XX} = \pm .02$$
$$.XXX = \pm .010$$

NOTE:

MOUNTING HOLES USE #4

SCREWS WITH #4 SMALL

PATTERN FLAT & LOCK WASHERS.