

LA 50HF

1 to 50 MHz LINEAR AMPLIFIER



50 Watts of Linear RF Power From 1 MHz to 50 MHz For Industrial, Laboratory, Communication and Medical Applications.

FEATURING:

- 1 MHz to 50 MHz
- 50 W Linear
- 75 W Saturated
- Linear Output of 25W with $h_{3\leq} -30$ dBc

Class Of Operation

Class A

Frequency Of Operation

1 MHz to 50 MHz

RF Power Output

75 W saturated

Gain

50 dB \pm 1 dB @ 0 dBm Drive

RF Input Drive

Typically -30 dBm to +1 dBm

Input Drive Source

Signal or function generator, analog computer input capable of up to 1 Vp-p @ 50 Ohm within amplifier output and bandwidth limits.

Input and Output Impedance

50 Ohm

Input VSWR

2:1 max

Output VSWR

3:1 max

Load Mismatch

All phase angles

Harmonic Level @ 25 W

Better then - 30 dBc for 3rd
Better then - 30 dBc for 2nd
any other > -40 dBc

RF Connectors

N Type Females. Front Panel

AC Power Source

100 - 120 VAC, 200 - 240 VAC
+/- 10%, 47 - 63 Hz

AC Power Connection

IEC Standard Power Entry

Cooling

Forced Air

Dimensions

H 95mm x W 480 mm x
L 420mm
(3.75" x 19" x 16.5")

Weight

~ 11 kg, (24 lbs.)

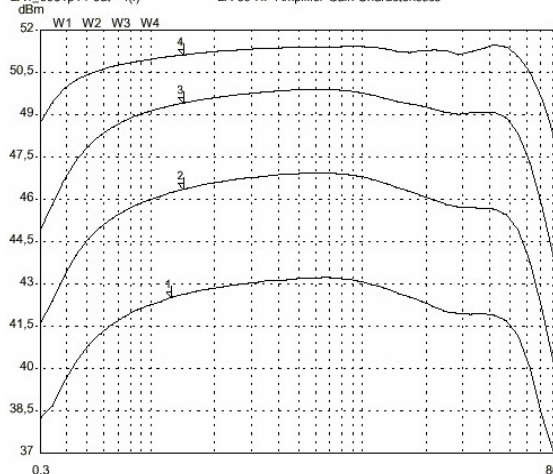
Mounting

Stand alone unit. Front Panel fit rack mount

Environmental conditions

Temp: 0° to 35° C ambient air
Humidity: 80%

LA1_30e1p1 Pout = f(f) LA 50 HF Amplifier Gain Characteristics



Date: 2004-06-29 Time: 18:04:55

MARKERS:

1	W1	X= 1,254242	Y=42,52309
		P out for Pin = -12 dBm	
2	W1	X= 1,428431	Y=46,34997
		P out for Pin = -8.1 dBm	
3	W1	X= 1,428431	Y=49,41017
		P out for Pin = -4.2 dBm	
4	W4	X= 1,428431	Y=51,10856
		P out for Pin = 0.74 dBm	