



601L POWER AMPLIFIER

1 Watt Linear UHF Amplifier For Signal Distribution

- 800 KHz – 1,000MHz Frequency Range
- Rugged Compact Design
- Operates into any load
- Low Distortion



The 601L Broadband Amplifier is a rugged source of RF power suitable for a variety of UHF signal distribution and general laboratory applications. It is a compact fully solid state design. It features low-level intermodulation distortion and inherent protection against short and open circuit loads. The 601L amplifies the inputs of AM, FM, SSB, pulse and other complex modulations within its output and bandwidth capability.

Flexible Operation

The 601L produces 1 Watt of Class A linear output power over a frequency range of 800 KHz to 1000 MHz with a nominal gain of 40 dB (± 2.5 dB). In order to provide exceptionally low levels of IMD, highly linear RF devices are used, with feedback, in the driver and output amplifier stages. All harmonics are more than 22 dB below the fundamental frequency at 1.0 Watt Pout.

Rugged Design

An integral power supply allows for operation directly from an input of 115/230 V single phase. Both the power supply and the forced air cooling are conservatively designed for operation over a wide temperature range.

High Reliability

Complete stability and instantaneous fail-safe protection ensure operation in to mismatch and overdrive conditions. The 601L will withstand a + 13dBm Input signal for all load conditions

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Class of Operation

Class A

Frequency Range

800 KHz to 1000MHz

Rated Output Power

1.0 Watt (0.8 – 1000 MHz)

Gain

40 dB

Gain Flatness

+/- 2.5dB

Input For Rated Output

0.1 mw (-10dBm)

Input Impedance / VSWR

50Ω 2.5:1

Output Impedance / VSWR

50Ω 3.0:1

Harmonic Level

< -22 dBc @ 1.0 W output

Ruggedness

∞:1 VSWR

Noise Figure

10 dB Typical

Spurious Output:

<-60dBc

Primary Power:

100 – 240 VAC 47-63 Hz.

1 A @ 120 V

0.5 A @ 240 V

Temperature Range

0 to 45 degrees C

Cooling

Forced Air

Weight

10 lbs. (4.5 Kg)

Front Panel

Controls: AC On/Off

Indicators: AC Power On

Connectors: RF Input/Output (BNC)

Accessories Supplied

Operation Manual

AC line cord

Dimensions

(H x W x D)

3.5" x 7.9" x 15"

89 mm x 201.4 mm x 381.8 mm



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