



## 603L POWER AMPLIFIER

### 3 Watt Linear UHF Amplifier For Signal Distribution

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

#### High Reliability

Complete stability and instantaneous fail-safe protection ensure operation in to mismatch and overdrive conditions.

The 603L will withstand a + 5dBm Input signal for all load conditions.



The 603L 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 603L amplifies the inputs of AM, FM, SSB, pulse and other complex modulations within its output and bandwidth capability.

#### Flexible Operation

The 603L produces over 2 Watts of Class A linear output power over a frequency range of 800 KHz to 1000 MHz with a nominal gain of 40 dB (+/-2.5dB). 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 17 dB below the fundamental frequency at 2 Watts Pout.

#### Rugged Design

An integral power supply allows for operation directly from an input of 100/240 V single phase. Both the power supply and the forced air cooling are conservatively designed for operation over a wide temperature range.



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# 603L POWER AMPLIFIER

## Class of Operation

Class A

## Frequency Range

500 KHz to 1000MHz

## Rated Output Power

2.0 Watts Linear

3.0 Watts Saturated

## Gain

40 dB

## Gain Flatness

+/- 2.5dB

## Input For Rated Output

-5.3 dBm

## Input Impedance / VSWR

50Ω 2.5:1

## Output Impedance / VSWR

50Ω 3.0:1

## Harmonic Level

< -17 dBc @ 2.0 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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