



503L POWER AMPLIFIER

3 Watt Linear UHF Amplifier For Signal Distribution

- 2 – 510 MHz
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 503L will withstand a + 12 dBm Input signal for all load conditions.



The 503L 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 503L amplifies the inputs of AM, FM, SSB, pulse and other complex modulations within its output and bandwidth capability.

Flexible Operation

The 503L produces over 3 Watts of Class A linear output power over a frequency range of 2 to 510 MHz with a nominal gain of 40 dB (+/- 2.0dB). 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 18 dB below the fundamental frequency at 3 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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503L POWER AMPLIFIER

Class of Operation

Class A

Frequency Range

2 to 510 MHz

Rated Output Power

3.0 Watts Linear

Gain

40 dB

Gain Flatness

+/- 2.0dB

Input For Rated Output

-5.3 dBm

Input Impedance / VSWR

50 Ω 2.5:1

Output Impedance / VSWR

50 Ω 3.0:1

Harmonic Level

< -18 dBc @ 3.0 W output

Ruggedness

∞ :1 VSWR

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



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