



403 LA POWER AMPLIFIER

3 Watt Linear UHF Amplifier For Signal Distribution

- 150KHz – 300MHz
Frequency Range
- Rugged Compact Design
- Operates into any load
- Low Distortion

High Reliability

Complete stability and rugged design ensure operation into mismatch and overdrive conditions.

The 403 LA will withstand a + 13dBm Input signal for all load conditions.



The 403LA 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 403 LA amplifies the inputs of AM, FM, SSB, pulse and other complex modulations within its output and bandwidth capability.

Flexible Operation

The 403LA produces 3 Watts of Class A linear output power over a frequency range of 150 KHz to 300 MHz with a nominal gain of 37 dB (+/-2dB). 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 25 dB below the fundamental frequency at 2.7 Watts 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.



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403 LA POWER AMPLIFIER

Class of Operation
Class A

Frequency Range
150 KHz to 300MHz

Rated Output Power
3.0 Watts

Gain
37 dB

Gain Flatness
+/- 2dB

Input For Rated Output
1 mw (0dBm)

Input Impedance / VSWR
50Ω 1.5:1

Output Impedance / VSWR
50Ω 2.5:1

Harmonic Level
< -25 dBc @ 2.7 W output

Ruggedness
∞:1 VSWR

IP3
+45 dBm Typical

Noise Figure
9 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
7 lbs. (3.2 Kg)

Front Panel
Controls: AC On/Off
Indicators: AC Power On
Connectors: RF Input/Output (BNC)

Dimensions
(H x W x D)
3.5" x 6.2" x 10.5"
88 mm x 157 mm x 267.5 mm



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