



## 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 instantaneous fail-safe protection ensure operation in to 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 (+/-1dB). 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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