



1000S04 POWER AMPLIFIER

1000 Watts
RF Power
For:

- Industrial
 - Lab Use
-
- 20 – 400 KHz
 - S- Series
 - Sample Ports
 - Solid State Reliability
 - Forced Air Cooling



The 1000S04 Amplifier is a rugged source of RF power for ultrasonic applications. It is a totally solid state solution employing Power MOSFETS in a full bridge PWM power stage. Operating at a significantly higher frequency than the fundamental signal

Flexible Operation:

The 1000S04 produces 1000 Watts of power over a frequency range of 20 to 400 KHz, with a nominal power gain of 60 dB (+/-1dB). Operation over the entire frequency range is possible without the need for any switching or tuning

Sample ports are provided: 50 Ω termination

Voltage Sample 1V/50V rms

Current Sample 1V/A rms

Samples are the actual output waveform scaled as shown.

1000S04 POWER AMPLIFIER

Class of Operation

Class D/S

Frequency Range

20 to 400 KHz

Rated Power Output

1,000 Watts – into 50 Ω

Power Gain / Voltage Gain

60 dB nominal

Gain Flatness

+/- 1 dB into 50 Ω

Input Power for Rated Output

1 mW or 0 dBm (223 mV rms)

Into 50 Ω

Input Impedance

50 Ω / VSWR 1.5:1 Max

(optional 10 K Ω)

Load Impedance

50 Ω / VSWR 1.1:1 Max for rated power

Ruggedness

Any load VSWR, any phase from open to Short circuit without damage.

Drive Source Requirements

Any signal source capable of developing min 0 dBm into 50 Ω
(1 mW / 223 mV / 632 mVp-p)

Protection:

INPUT: unit will withstand up to +30 dBm input without damage.

THERMAL: the unit can operate at 45°C ambient.

Accessories Supplied

The unit is supplied with an operations manual and line cord.

Unit Efficiency_(DC-RF) into 50 Ω

> 80% @ full output

AC Power

84-240 VAC

Temp. Range Operating

0 – 45°C

Cooling

Forced air (front to back)

Weight

14lbs / 6.35 Kg.

Dimensions

2 U Full Rack

H = 3.5" / 88.9 mm

W = 19" / 482.6 mm

L = 22.5" / 571.5 mm



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