



## 1040L POWER AMPLIFIER

400 Watts of RF Power  
For Industrial, Lab  
& Medical Use,

Featuring;

- 10 – 500 KHz
- Power Measurement
  - o Forward & Reflected
- Solid State Reliability
- Forced Air Cooling



The 1040L Amplifier is a rugged source of RF power for ultrasonics, induction heating and laser modulation as well as plasma applications. It is a totally solid state solution employing RF DMoS FETs in the power amplification stages, offering simultaneous forward and reverse power readouts, and RS232 port for data collection. The 1040L reflects E&I's commitment to reliable and robust RF power.

### Flexible Operation:

The 1040L produces 400 Watts of quasi linear class B power over a frequency range of 10 to 500 KHz, with a nominal power gain of 55 dB (+/-1dB). Operation over the entire frequency range is possible without the need for any switching. Operation up to 1 MHz is achieved with a lower power gain.

The front panel display provides simultaneous measurements of forward and reflected power as well as the unit's status. The RS232 connector at the rear of the unit can also be used to capture this data and reset the unit should a fault occur.

The E&I 1040L is a 19" rack mount unit 3U high. It employs an integral power supply capable of operation at 115 or 220 VAC, 50 – 60 Hz. The unit weighs approximately 45 lbs or 16 Kg.



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# 1040L POWER AMPLIFIER

## Class of Operation

Class B

## Frequency Range

10 to 500 KHz

## Rated Power Output

400 Watts

## Power Gain

55 dB nominal

## Gain Flatness

+/- 1 dB

## Input Power for Rated Output

1.3 mW or 0.11dBm

## Input Impedance

50  $\Omega$

## Output Impedance

50  $\Omega$

## Ruggedness

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

## Front Panel Accuracy

+/- 3%

## Drive Source Requirements

Any signal Generator, function Generator or oscillator capable of up to 0.7 Vpp into 50  $\Omega$

## Protection:

INPUT: unit will withstand up to +13dBm input without damage.

THERMAL: the unit can operate at 45°C ambient. If the internal temperature becomes too high the unit will shut down and an error message will appear on the front panel. The unit may be re-set by cycling the power or from the RS232 input.

MISMATCH: the unit will tolerate any mismatch subject to thermal protection.

## Accessories Supplied

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

## Temperature Range

0 – 45° C

## Cooling

Forced air.

## Weight

45 lbs (16 KG)

## Dimensions

5.2 x 16.5 x 18.1 (H x W x D)



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