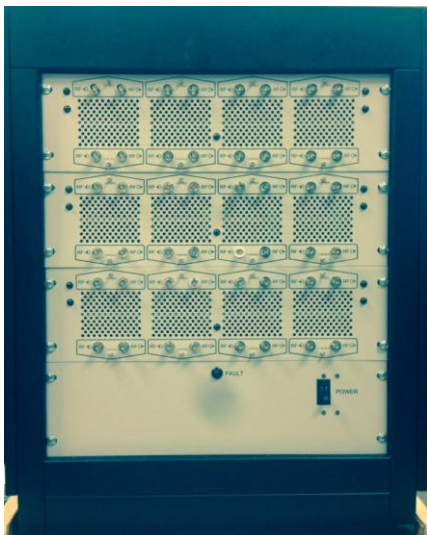




10AB24 POWER AMPLIFIER

10 Watt
RF Power
Per Channel
For:

- Ultrasonic
 - Testing
 - Laboratory use
-
- 24 Channels
 - 500 KHz to 3 MHz
 - Instantaneous Bandwidth
 - 10 W
 - Solid State
 - Air Cooled



The 10AB24 Amplifier system is a rugged source of RF power, useful for ultrasonics and phased array applications. The 10AB24 represents E&I's commitment to providing RF power amplifiers of the highest quality, durability and ruggedness.

FLEXIBILITY:

The 10AB24 produces 10 Watts of class AB quasi linear power output over the entire frequency range from 500 KHz to 3 MHz, from each channel. It has low harmonic distortion along with low IMD products. Operation over the band is achieved without the need for any band switching or indeed any adjustments. The power gain is rated at 39 dB with a typical gain flatness of +/- 1.5 dB

The 10AB24 is compatible with most signal generators, frequency synthesizers, sweep generators and other laboratory signal sources. It accurately reproduces all waveforms within its power and frequency ranges: AM, FM, SSB, pulsed and other complex modulation schemes.

RUGGEDNESS:

The 10AB24 is built to withstand a 13 dBm input (1.0 Volt RMS) for any VSWR load condition. The internal switched mode power supply is very conservatively rated, in order to facilitate operation over a large range of line conditions and temperatures. The forced air cooling provides for low internal temperatures, providing long term reliability. The RF power is delivered by rugged DMoS FETs, de-rated to provide for excellent MTBF figures.

10AB24 POWER AMPLIFIER

Class of Operation

Class AB

Frequency Range

500 KHz to 3 MHz

Rated Power Output

10 Watts / Channel

Gain

39 dB (nominal)

Gain Flatness

+/- 1.5 dB

Input Power for rated Pout

1 mW

Input Impedance / VSWR

50Ω / 1.5:1 maximum

Output Impedance / VSWR

50Ω / 1.25:1 maximum

Ruggedness

∞:1 VSWR

Stability

Unconditional into any passive load or reactive load.

Protection

Input: Unit will withstand input signal of +13 dBm without damage (1.0 V rms) max. and infinite load VSWR.

AC Input

85 – 264 VAC 47-63 Hz.

Temperature Range

0 – 40 C

Cooling

Forced air.

Weight

45 lbs (16 Kg)

Dimensions

H = 30.5" (77.5 cm) W=23.5" (59.7 cm)
D= 25.5" (64.8 cm)



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