

ATA-8222 RF Power Amplifier

- Operating Mode: Class AB
- Operating Frequency: 100kHz~22MHz
- P1dB Output Power: 20W
- Saturated Output Power: 40W
- Power Gain: 40dB(20dB~40dB/0.5dB step)



INTRODUCTION

ATA-8222 is an RF power amplifier. It has a saturated output power of 40W and a 1dB gain compression point output power of 20W. The digitally adjustable gain enables precise tuning, with one-click saving of settings for convenient and user-friendly operation. It is compatible with mainstream signal generators, delivering excellent RF signal amplification. The wide-range power supply accommodates different regional power standards worldwide.

LCD PANEL DISPLAY

The ATA-8222 features an LCD panel that dynamically displays device status and parameters. The user interface is intuitive, clear, and easy to understand, ensuring a user-friendly experience.

INPUT

The input uses a BNC connector with an input impedance of 50Ω.

POWER GAIN

The amplifier provides a power gain of 40dB (adjustable from 20dB to 40dB in 0.5dB steps). Combined with the gain display on the LCD panel, parameters can be quickly and precisely adjusted as needed.

OUTPUT

The output uses a BNC connector with an output impedance of 50Ω.

No-load operation prohibited!

TYPICAL APPLICATIONS

Piezoelectric Ceramic Drive

Ultrasonic Transducer Drive

Medical Ultrasound

Wireless Power Transmission

Ultrasonic Non-destructive Testing

Focused Ultrasound



Specifications

Model	ATA-8222
Operating Mode	Class AB
Operating Frequency	100kHz~22MHz
P1dB Output Power	20W
Saturated Output Power	40W
Power Gain	40dB (20dB~40dB/0.5dB step)
P1dB Output Power Input Signal	316mVrms/2mW/3dBm (40dB gain, 1MHz)
Third Harmonic Level	<-25dBc@20W, 1MHz
Fuse	2A/250V
Input Impedance	50Ω
Output Impedance	50Ω
Maximum Input Signal Without Damage	1Vrms/20mW/13dBm
Input Interface	BNC
Output Interface	BNC
Stability	Can drive both passive and reactive loads
Cooling Method	Temperature Controlled Air Cooling

Others

Power Supply Voltage	AC 110~240V, 50/60Hz
Operating Temperature	0°C ~ 45°C
Storage Temperature	-20°C ~ 50°C
Working Humidity	≤ 80% RH, non-condensing
Warranty	1 year
Dimensions	330*149*397mm (W*H*D)

Ordering Information

Model	ATA-8222 RF power amplifier
Accessories	Power cable*1, BNC-to-BNC cable*2, USB cable*1, fuse*1, user manual, usage guide, product qualification certificate, calibration certificate, and packing list (one copy each).
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