

ATA-8255 RF Power Amplifier

- Operating Mode: Class A
- Operating Frequency: 100kHz~25MHz
- P1dB Output Power: 50W
- Saturated Output Power: 100W
- Power Gain: 44dB



INTRODUCTION

ATA-8255 is an RF power amplifier featuring a P1dB output power of 50W and a saturated output power of 100W. 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 amplifier is equipped with power detection functionality, indicating both the current output power and reflection power. The wide-range power supply accommodates different regional power standards worldwide.

LCD PANEL DISPLAY

The ATA-8255 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 44dB (adjustable from 24dB to 44dB 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-8255
Operating Mode	Class A
Operating Frequency	100kHz~25MHz
P1dB Output Power	50W
Saturated Output Power	100W
Power Gain	44dB (24dB~44dB/0.5dB step)
P1dB Output Power Input Signal	316mVrms/2mW/3dBm (44dB gain, 1MHz)
Third Harmonic Level	<-25dBc@50W, 1MHz
Maximum Allowable Reflection Power	20W
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*399mm (W*H*D)

Ordering Information

Model	ATA-8255 RF power amplifier
Accessories	Power cable*1, BNC-to-BNC cable*1, BNC output cable*1, USB cable*1, fuse*1, user manual, usage guide, product qualification certificate, calibration certificate, and packing list (one copy each).
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