

## ATA-1000 Series Wide Band Amplifier

High bandwidth DC~22MHz

Output BNC connector and banana socket optional

Input resistance is adjustable

The voltage gain is numerically adjustable



## Technical Index

Bandwidth (-3dB) up to 22MHz

Maximum output voltage 70Vp-p ( $\pm 35$ Vp)

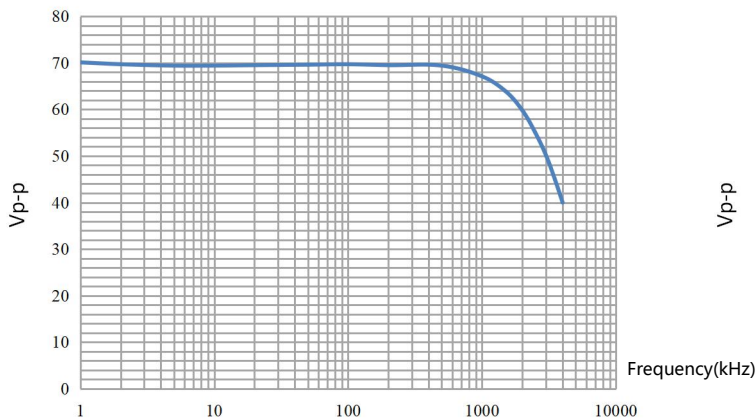
Maximum output current 2Ap

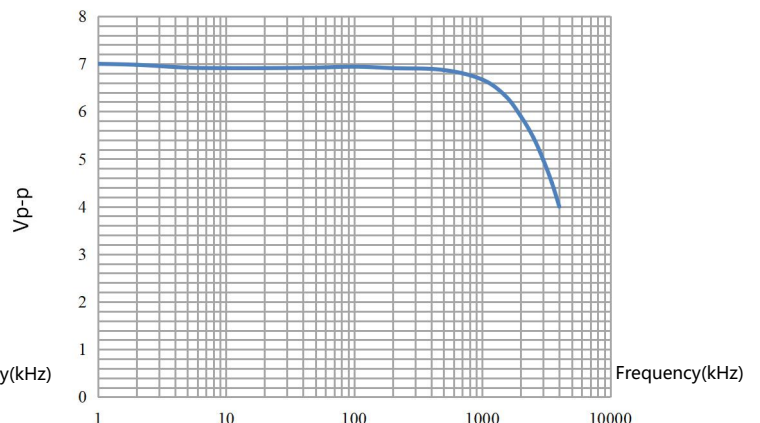
## Introduction

ATA-1000 series is an ideal wide band amplifier that can amplify AC and DC signals. The bandwidth is DC~22MHz, and the input resistance can be adjusted to 50 $\Omega$ /10k $\Omega$  which matches the signal source of low or high internal resistance, realizes the lossless amplification of the signal. The output resistance are adjustable, customers can choose flexibly according to the test requirements.

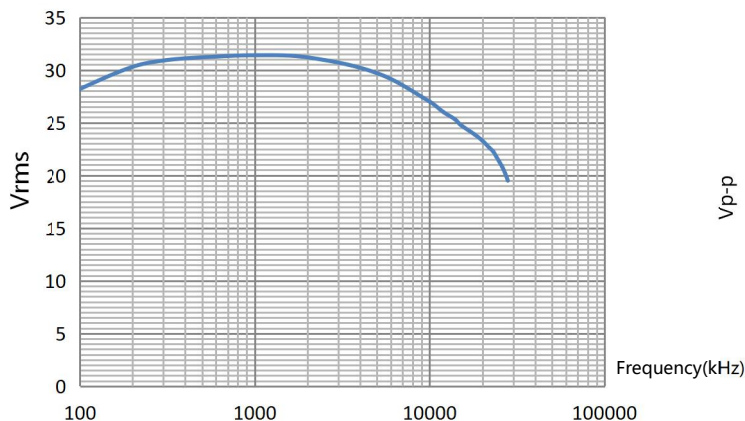
Model	ATA-1372A	Model	ATA-1222A
Form of output	Single output	Class of operation	Class AB
Bandwidth (-3dB)	DC~3MHz	Bandwidth	100kHz~22MHz
Maximum output voltage	70Vp-p ( $\pm 35$ Vp)	P1dB output power	20W
Maximum output current	1Ap (DC~50Hz)	Saturation output power	40W
	2Ap (>50Hz)	Power Gain power	40dB(20dB~40dB/0.5dB step adjustable)
Maximum output power	70Wp	Input signal of the rated output power	316mVrms/2mW/3dBm (40dB gain 1MHz)
Voltage gain	x0~40 (0.1 step/1 step)	Lossless maximum input signal	1Vrms/20mW/13dBm
Load $R_L$ upper limit	$\geq 33\Omega$ (DC~50Hz)	Input resistance	50 $\Omega$
	$\geq 15.5\Omega$ (above 50Hz)	Output resistance	50 $\Omega$
Slew rate	$\geq 467$ V/ $\mu$ s	Third harmonic level	< -25dBc
Output resistance	$\leq (0.2\Omega + 0.4\mu$ H)	Input connector	BNC
Input resistance	50 $\Omega$ / 10k $\Omega$	Output connector	BNC
Output voltage error	$\leq \pm 2\%$ FS@1kHz	Stability	can drive passive loads and reactance loads
Total harmonic distortion (THD)	$\leq 0.1\%$ @1kHz, 70Vp-p	Cooling mode	air cooling

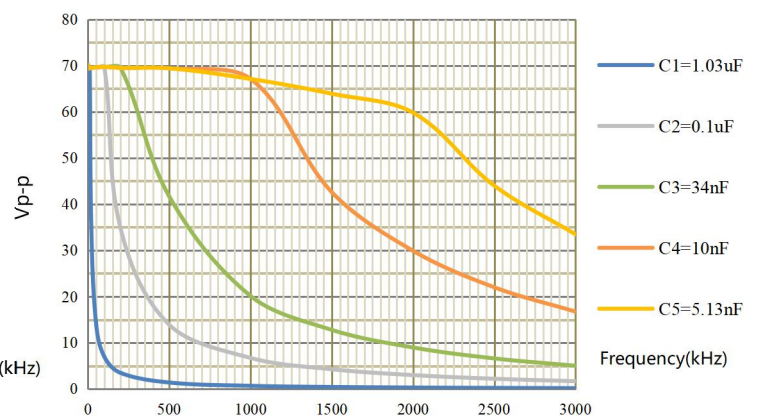
Output voltage zero drift	$\leq \pm 10\text{mV}$	Supply voltage:	AC110~240V, 50/60Hz
Signal-noise ratio (SNR)	$\geq 70\text{dB}$	Operating temperature:	0°C~45°C
Fuse	2A/250V	Fuse	2A/250V
Output connector	BNC	Storage temperature:	-20°C ~ 50°C
Input amplitude	0~10Vp-pMAX	Operating humidity:	$\leq 80\%$ RH, no condensation
Protection	Overcurrent protection	Dimension (W*H*D) :	262*163*365 mm
Signal Ground	Ground connected with the case and the power line		
Supply voltage	AC110~240V, 50/60Hz		
Operating temperature	0°C~45°C		
Storage temperature	-20°C~50°C		
Humidity	$\leq 80\%$ RH, no condensation		
Dimension (W*H*D) :	262*163*365 mm		

**ATA-1372A**

 Amplitude-frequency characteristic  
 (Maximum output voltage Vp-p)

**ATA-1372A**


Small signal amplitude-frequency characteristic

**ATA-1222A**

 --- Amplitude-frequency characteristic  
 (Maximum output voltage Vrms@50Ω)

**ATA-1372A**


ATA-1372A Capacitive loads curve