

ATA-1000 Series Wide Band Amplifier

- High Bandwidth
- Input and Output resistance adjustable
- Digital control of voltage gain (0.5dB step)
- Output BNC interface and terminal are optional



Technical Index

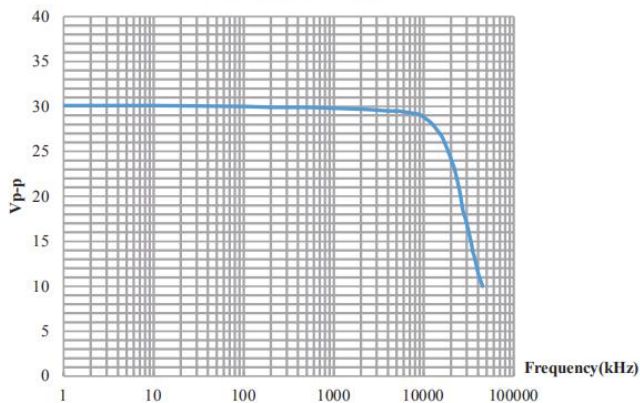
- Bandwidth (-3dB) up to DC~25MHz
- Maximum output voltage 60Vp-p ($\pm 30Vp$)
- Maximum output current 1Ap

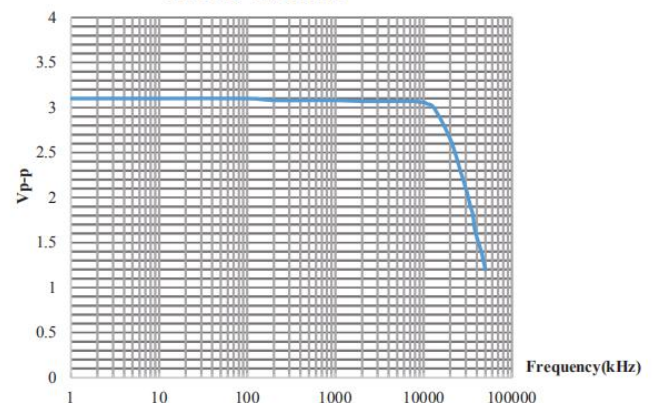
Introduction

ATA-1000 series is an ideal wide band amplifier that can amplify AC and DC signals. The bandwidth is as high as DC~25MHz, and it has 50 Ω , 1 M Ω input resistance. It can perfectly match the signal source with high and low internal resistance to realize the perfect amplification of signal. The output resistance are adjustable, customers can choose flexibly according to the test requirements.

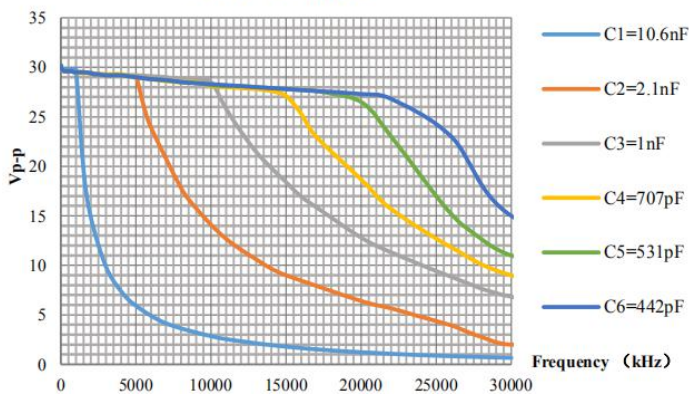
Model	ATA-1200B	ATA-1220D
Output form	Single output	Differential output
Bandwidth (-3dB)	DC~25MHz	DC~21MHz
Maximum output voltage	30Vp-p ($\pm 15Vp$)	60Vp-p ($\pm 30Vp$)
Maximum output current	500mA _p (DC~50Hz)	500mA _p (DC~50Hz)
	1A _p (50Hz~25MHz)	1A _p (50Hz~21MHz)
Maximum output power	15W _p	30W _p
Voltage gain	20dB adjustable (0.5dB step)	26dB adjustable (0.5dB step)
Load R _L upper limit	$\geq 15\Omega$ (above 50Hz)	$\geq 30\Omega$ (above 50Hz)
Slew Rate	1665V/ μ s	2800V/ μ s
Output resistance	1 Ω / 50 Ω	2 Ω / 100 Ω
Input resistance	50 Ω / 1M Ω	
Input amplitude	0~10V _p -pMAX	
Output voltage error	$\leq \pm 3\%$ FS@1kHz	
Total harmonic distortion (THD)	$\leq 0.1\%$ @1kHz, 30V _p -p	
Output voltage zero-point drift	$\leq 0.1V$	
Signal-noise ratio (SNR)	$\geq 80dB$	
Output Connector	BNC、4mm Banana socket	
Protection	Overcurrent protection	
Signal Ground	It is connected with the grounding of the shell and the power line	
Supply voltage	AC220V $\pm 10\%$, 50Hz	

Fuse	1A/250V
Operating temperature	0°C~45°C
Storage temperature	-20°C~50°C
Humidity	≤80%RH, no condensation
Size (W * H * D)	262*163*365mm

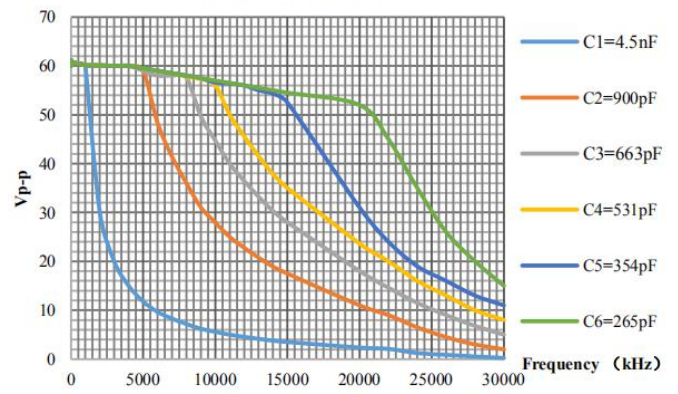
ATA-1200B

 (1)Amplitude-frequency characteristic
 (Maximum output voltage V_{p-p})

ATA-1200B


(2)Small signal amplitude-frequency characteristic

ATA-1200B


(3)ATA-1200B Capacitive loads curve

ATA-1220D


(4)ATA-1220D Capacitive loads curve

Xi'an Aigtek Electronic Technology Co., Ltd.

Address: Zhicheng Business, No.17, Gaoxin 4th Road, Xi 'an Hi-tech Industrial Development Zone

Tel: (+86) 029-88865020

Email: sales@aigtek.com

 Website: <http://www.aigtek.com>