

ATA-3000 Series Power Amplifier

High current, high power

Input and output resistance adjustable

One key saving common settings



Technical Index

Bandwidth (-3dB) up to DC~100kHz

Maximum output power 810Wp

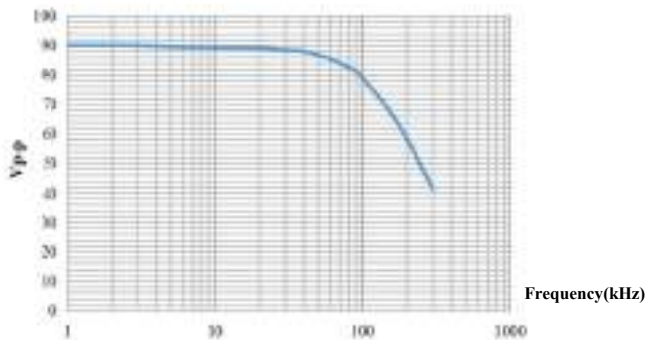
Adjustable voltage gain

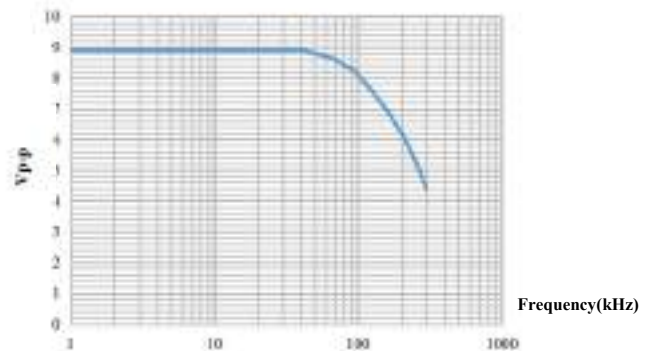
Introduction

ATA-3000 series power amplifier is an ideal power amplifier that can amplify AC and DC signals. The maximum output power is 810Wp, which can drive power load. The voltage gain can be adjusted by numerical control, and the common settings can be saved by one key. It can be used with mainstream signal generator to realize perfect signal amplification.

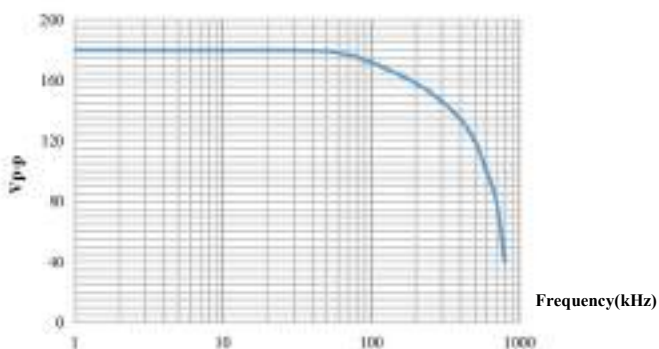
Model	ATA-3040B	ATA-3080	ATA-3090B
Output form	Single output	Differential output	Single output
Bandwidth (-3dB)	DC~100kHz	DC~100kHz	DC~100kHz
Maximum output voltage	90Vp-p (± 45 Vp)	180Vp-p (± 90 Vp)	90Vp-p (± 45 Vp)
Maximum output current	4Ap (DC~50Hz)	4Ap (DC~50Hz)	9Ap (DC~50Hz)
	8Ap (>50Hz)	8Ap (>50Hz)	18Ap (>50Hz)
Maximum output power	360Wp	720Wp	810Wp
Fuse	8A/250V	8A/250V	10A/250V
Voltage gain	x0~30 (0.1 step/1 step)	x0~60 (0.1 step/1 step)	x0~30 (0.1 step/1 step)
Load R_L upper limit	$\geq 10.75\Omega$ (DC~50Hz)	$\geq 22\Omega$ (DC~50Hz)	$\geq 4.75\Omega$ (DC~50Hz)
	$\geq 5.13\Omega$ (>50Hz)	$\geq 10.75\Omega$ (>50Hz)	$\geq 2.25\Omega$ (>50Hz)
Output resistance	0.5 Ω /50 Ω (Customizable)	0.5 Ω /100 Ω (Customizable)	0.25 Ω /50 Ω (Customizable)
Slew Rate	≥ 20 V/ μ s	≥ 40 V/ μ s	≥ 20 V/ μ s
Voltage monitor	50mV/V	/	50mV/V
Current monitor	200mV/A	/	200mV/A
Input resistance	50 Ω / 5k Ω		
Input amplitude	0~10Vp-pMAX		
Output voltage error	$\leq \pm 3\%$ FS@1kHz		
Total harmonic distortion (THD)	$\leq 0.1\%$ @1kHz, 90Vp-p		
Output voltage zero-point drift	$\leq \pm 0.3$ V		
Signal-noise ratio(SNR)	≥ 80 dB		

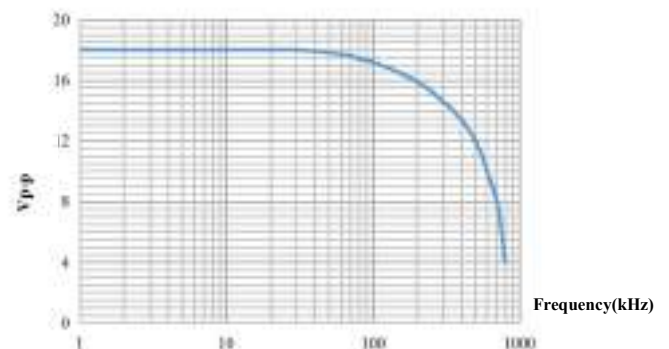
Output Connector	4mm Banana socket
Protection	Overcurrent protection
Signal Ground	It is connected with the grounding of the shell and the power line
Supply voltage	AC110~240V, 50/60Hz
Operating temperature	0°C~45°C
Storage temperature	-20°C~50°C
Humidity	≤80%RH, no condensation
Dimension (W*H*D) :	440*163*470mm

ATA-3040B

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

ATA-3040B


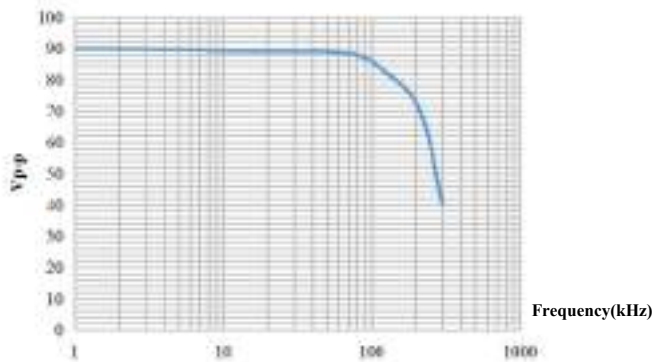
Small signal amplitude-frequency characteristic

ATA-3080

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

ATA-3080


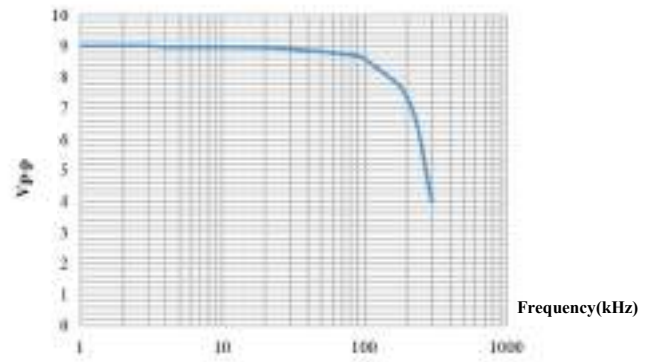
Small signal amplitude-frequency characteristic

ATA-3090B



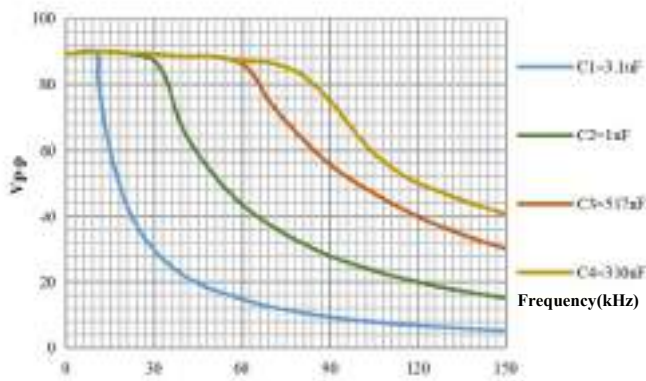
Amplitude-frequency characteristic
(Maximum output voltage V_{p-p})

ATA-3090B



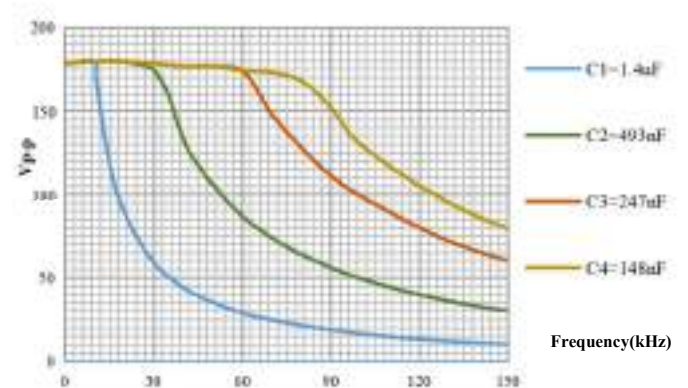
Small signal amplitude-frequency characteristic

ATA-3040B



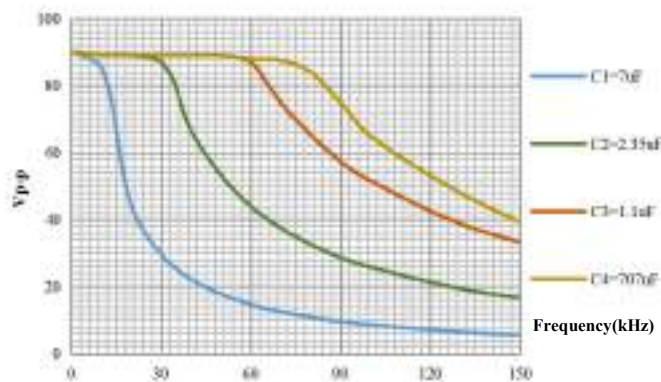
ATA-3040B Capacitive loads curve

ATA-3080



ATA-3080 Capacitive loads curve

ATA-3090



ATA-3090B Capacitive loads curve