

**Power Amplifiers | HF Drivers | Microphones**  
**Speakers | Line Array | DJ Consoles**



**VISIT US AT HALL 2**  
**BOOTH NO - 2D79**

# Ethan Audio EA5000



## Features

- UPDM (Unipolar Pulse Density Modulation) audio power is new generation PDM audio power amplifier technical proposal with super low power consumption.
- Solid 1U size body.
- AC 220V power supply fluctuation purification.
- Grounding noise 2-way drainage purification.
- Single source noise Level-2 purification.
- Direct energy amplifier.
- Constant undistortion power control.
- Complex anti-phase shift control.
- Speaker dynamic energy recycle.
- Soft protection for pre-overheat and pre-overload.



## Specification

|                                  |                                                         |
|----------------------------------|---------------------------------------------------------|
| Power                            | 800W @ 8Ω X2 X4                                         |
| Distortion                       | <0.005%                                                 |
| SNR                              | 112dB (A-weighting)                                     |
| Frequency Response               | 20Hz-20KHz ±0.25dB                                      |
| Damping Factor                   | ≥1000                                                   |
| Switch Rate                      | 50V / us                                                |
| Input Impedance                  | 30kΩ balanced                                           |
| Input Sensitivity                | 0.775V                                                  |
| DC Residual                      | <5mV                                                    |
| Working Voltage                  | 90V-264V ± 10%, 50Hz                                    |
| Power Factor cos                 | >0.95 @>500W                                            |
| Maximum Output Voltage / Current | 100Vpeak/ 50A peak                                      |
| Power                            | standard switch mode with PFC (Power Factor Correction) |

# Ethan Audio EA12000



## Features

- Designed for heavy duty live shows and fixed installation sound systems.
- Frontal appearance is built with a unique aluminum bold design to display it's strong and robust build.
- Toshiba tube transistors and pure copper transformers.
- Recommended for mid - large sized audio applications.



## Specification

|                           |                               |
|---------------------------|-------------------------------|
| 8Ω Stereo                 | 2x2500W                       |
| 4Ω Stereo                 | 2x4200W                       |
| 2Ω Stereo                 | 2x5500W                       |
| 8Ω Bridge                 | 7500W                         |
| 4Ω Bridge                 | 10000W                        |
| Output Circuitry          | Class H                       |
| Frequency Response        | 20-20K ±1dB                   |
| Input Sensitivity         | 0.775V/1.0V/1.4V              |
| Balanced                  | 20KΩ                          |
| Unbalanced                | 10KΩ                          |
| Crosstalk                 | ≥62dB 8Ω 1KHz                 |
| S/N Ratio                 | ≥103dB                        |
| Damping Factor            | ≥ 1800                        |
| Total Harmonic Distortion | <0.05%@8Ω 1/10 Pro            |
| Slew Ratio                | 25V/u S                       |
| Cooling System            | Dual 2-Speed Fans & Heatsinks |

# Ethan Audio EA15000



## Features

- 1U Height Standard Chasis, compact, lightweight.
- 1 Class D power amplifier module fixed switching frequency.
- Soft switch LLC Resonant Switching Power Supply Module.
- Active Power Factor Correction (PFC) for stable operation over full voltage (50V-350V)
- Efficient speaker back EMF absorption system.
- Unique peak clipping limiter and ripple elimination network.
- Backplane connection mode selection (stereo/ parallel/ bridge)
- Temperature-controlled variable speed fan, airflow from front to back.

## Specification

|                               |                       |
|-------------------------------|-----------------------|
| 8Ω Stereo                     | 2x2400W               |
| 4Ω Stereo                     | 2x4100W               |
| 2Ω Stereo                     | 2x4200W               |
| 8Ω Bridge                     | 5500Wx2               |
| 4Ω Bridge                     | 11000Wx2              |
| Frequency Response            | 8Ω, 20Hz-20KHz ±0.5dB |
| Input Sensitivity             | 0.775V/ 1V/ 32dB      |
| Input Impedance               |                       |
| (Balanced / Unbalanced)       | 20KΩ / 10KΩ           |
| Damping Coefficient           | ≥ 2000                |
| Total Harmonic Distortion     | <0.35% @ 8Ω, 1KHz     |
| Intermodulation Distortion    | <0.15% @ 8Ω, 60+ 7KHz |
| Single to noise ratio A       | ≥ 106dB @ 8Ω, 1KHz    |
| Conversion Rate               | ≥ 20V / uS            |
| Resolution                    | ≥ 70dB                |
| Product Dimension (W x L x H) | 483x238x45mm          |

# Max Effect ME1000Q



## Features

- Stable performance in 4ohms at low temperature
- Pure copper ring toroidal transformer
- Customised design heat aluminium (heatsink)
- Customised fans
- Original Toshiba transistors that provides the best sound quality



## Specification

|                           |                   |
|---------------------------|-------------------|
| 8Ω Stereo                 | 4x1000W           |
| 4Ω Stereo                 | 4x1500W           |
| 8Ω Bridge                 | 3000W             |
| Output Circuitry          | Class H           |
| Frequency Response        | 10Hz-30kHz±1db    |
| Input Sensitivity         | 0.775V/1.0V/1.4V  |
| Balanced                  | 20KΩ              |
| Unbalanced                | 10KΩ              |
| Crosstalk                 | ≥65dB 8Ω 1KHz     |
| S/N Ratio                 | ≥101dB            |
| Damping Factor            | ≥800              |
| Total Harmonic Distortion | <0.5%@8Ω 1/10 Pro |
| Slew Ratio                | 25V/u S           |

# Ethan Audio EA6000B



## Features

- Stable performance in 4ohms at low temperature
- Pure copper ring toroidal transformer
- Customised design heat aluminium (heatsink)
- Customised fans
- Original Toshiba transistors that provides the best sound quality



## Specification

|                           |                   |
|---------------------------|-------------------|
| 8Ω Stereo                 | 4x1000W           |
| 4Ω Stereo                 | 4x1500W           |
| 8Ω Bridge                 | 3000W             |
| Output Circuitry          | Class H           |
| Frequency Response        | 10Hz-30kHz±1db    |
| Input Sensitivity         | 0.775V/1.0V/1.4V  |
| Balanced                  | 20KΩ              |
| Unbalanced                | 10KΩ              |
| Crosstalk                 | ≥65dB 8Ω 1KHz     |
| S/N Ratio                 | ≥101dB            |
| Damping Factor            | ≥800              |
| Total Harmonic Distortion | <0.5%@8Ω 1/10 Pro |
| Slew Ratio                | 25V/u S           |

# Max Effect EA9000



## Features

- Designed for heavy duty live shows and fixed installation sound systems.
- Frontal appearance is built with a unique aluminum bold design to display it's strong and robust build.
- Toshiba tube transistors and pure copper transformers.
- Recommended for mid - large sized audio applications.



## Specification

|                           |                               |
|---------------------------|-------------------------------|
| 8Ω Stereo                 | 2x1800W                       |
| 4Ω Stereo                 | 2x3600W                       |
| 2Ω Stereo                 | 2x4200W                       |
| 8Ω Bridge                 | 5500W                         |
| 4Ω Bridge                 | 9000W                         |
| Output Circuitry          | Class H                       |
| Frequency Response        | 20-20K ±1dB                   |
| Input Sensitivity         | 0.775V/1.0V/1.4V              |
| Balanced                  | 20KΩ                          |
| Unbalanced                | 10KΩ                          |
| Crosstalk                 | ≥62dB 8Ω 1KHz                 |
| S/N Ratio                 | ≥103dB                        |
| Damping Factor            | ≥ 1800                        |
| Total Harmonic Distortion | <0.05%@8Ω 1/10 Pro            |
| Slew Ratio                | 25V/u S                       |
| Cooling System            | Dual 2-Speed Fans & Heatsinks |

# Max Effect EA 2.6



## Features

- Excellent sonic performance with 24bit high end converters coupled with 96kHz sample rate
- 2 inputs, 6 outputs with full matrix mixing
- 31 band parametric equalization per input channel
- 7 band parametric equalization per output channel
- Each band can be switched to Bell, Low/High Shelving with variable Q response
- Crossover filters with slopes from 6dB/Octave up to 48dB/Octave including Butterworth, Bessel, Linkwitz-Riley
- Each output features a dynamic range controller composed of a Peak Limiter.
- Adjustable Delay time up to 900 ms for every input channel, and up to 340 ms for every output channel
- Rear panel USB connector for direct PC communications
- RS485 connection for system setup, monitoring and control via fully manageable remote PC software
- Front panel interactive LCD display for local access and configuration
- Front panel 7-LED level meter indicators per channel
- Simultaneous control up to 32 units via PC software
- Up to 32 storable user presets
- Security Lockout



# Max Effect EA 2.6



## Specification

### Audio

- Analog Input 2 x XLR electronically balanced
- Analog Output 6 x XLR electronically balanced
- AD & DA Converters 24bit 96kHz
- Minimun Load 150 ohm
- THD+N 0.005% at 1kHz 0dBu, 0.01% at 1kHz 16dBu
- S/N >106 dBA
- Frequency Response 20Hz – 20kHz;  $\pm 0.5$ dB

### Processing

- Resolution 24×32 bit for filtering process  
96 bits resolution on intermediate computation results
- Parametric Equalization 31 filters per input selected as Bell or Shelving  
7 filters per output selected as Bell or Shelving
- Filter Type Bell, Shelving
- Filter Gain From -15dB up to +15dB by 0.5dB resolution steps
- Center Frequency Selectable with a 1/24th of octave resolution step from 20Hz up to 20kHz
- Filter Q/BW Q from 0.4 up to 12 by 0.1 resolution steps
- Crossover Section HPF/LPF Butterworth 6/12/18/24 dB per octave  
Bessel 12/24 dB per octave  
Linkwitz-Riley 12/24/36/48 dB per octave
- Internal Noise Generator White/Pink Noise, level from -30dBu to 0dBu
- Input Noise Gate Threshold from -90 dBu up to -60 dBu
- Delay 420 ms for every input channel and 128 ms for every output channel
- Ground Noise -88 dBu

# Max Effect EA 2.6



- RMS Compressor

Threshold from -14 dBu up to +16dBu  
Ratio: 2:1~100:1; Knee: 0%~100%  
Attack time from 5ms up to 200ms  
Release time from 0.1 sec up to 3 sec

## General

- Device Presets
- Front Panel

32 User Presets  
2x24 character LCD display with green LED backlight  
7-LED meter per input channel -20dBu to +15dBu, clip  
7-LED meter per output channel -15dBu to +15dBu, clip or limiter mode  
Blue LED (Edit) and Red LED (Mute) per channel  
NAV/PM1 Rotary encoder push button switch  
PM2, PM3, ENTER, ESC, UTILITY push button switches  
EDIT/MUTE push button per channel  
USB type B connector

- Rear Panel

2 x XLR female connector (Input)  
6 x XLR male connector (Output)  
1 x XLR female connector for RS485 (Input)  
1 x XLR male connector for RS485 (Output)  
2 x Ground-lift toggle switch  
IEC C13 16A connector; Power on/off switch  
90-240VAC (50/60Hz) – 40W  
19"x 1.75"x 9" (483x44x229mm) 1RU  
560x320x110(mm)  
6.61 lbs (3.0 Kg) / 7.71 lb (3.5 Kg)

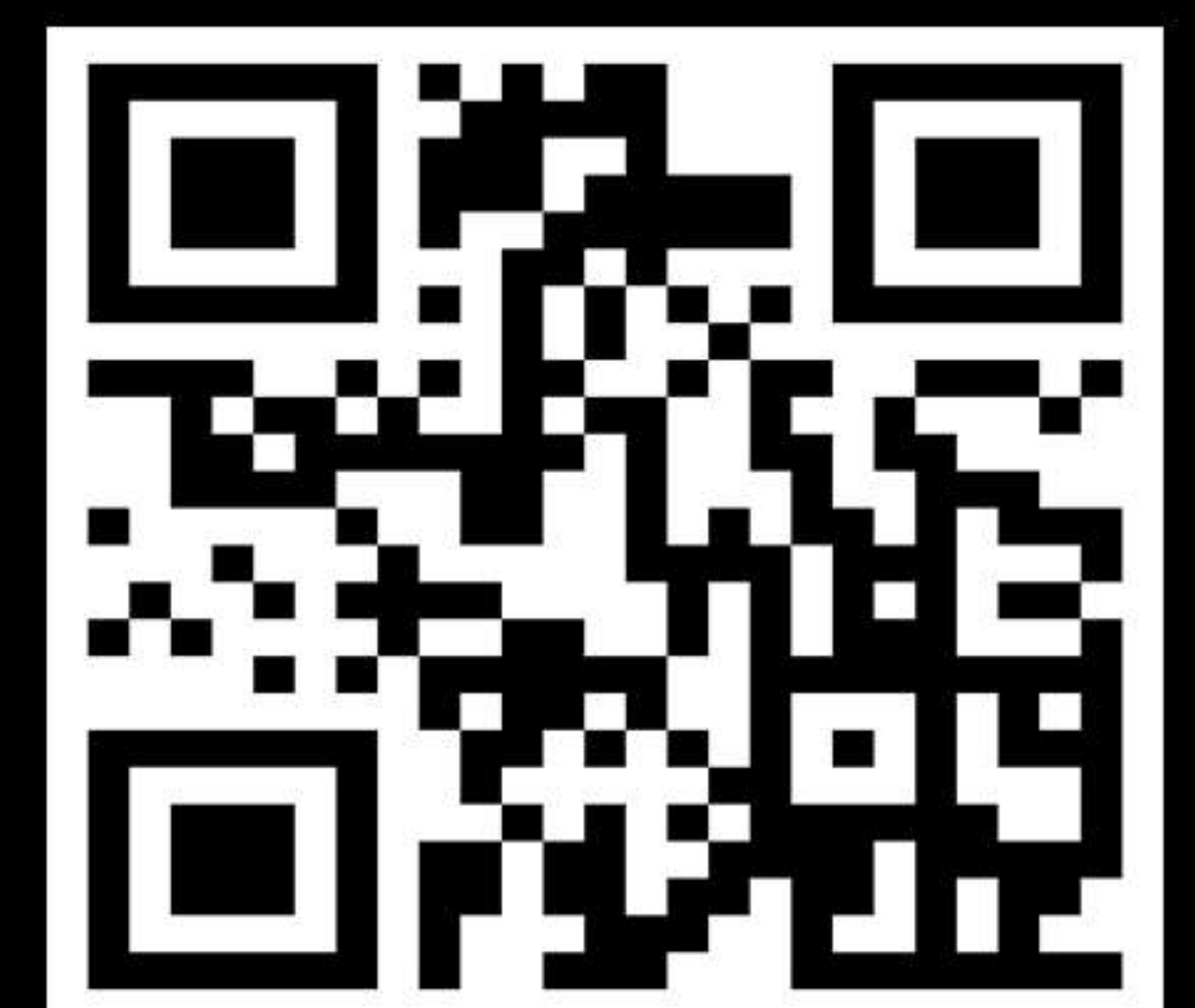
- Main AC
- Dimensions
- Package size
- Weight, Net / Shipping

# Max Effect EA 4.8



## Features

- Very intuitive, easy-to-use Front Panel Parameter Control
- Single rack space with XLR audio connections
- Crossover, EQ, delay and limiter functions
- Inputs assignable to any output
- Front panel or PC programming and control with 4 levels of security
- USB and RS-232 interface; 6' USB-A to USB-B cable included
- Third-party control friendly
- Balanced inputs and outputs
- Parametric filters and comp/limiter controls feedback
- SLinkwitz-Riley, Bessel and Butterworth filters
- 12, 18, 24 and 48dB/octave slopes
- Parametric EQ: 1/64th to 4-octave range
- 682ms input and output delay (1,364ms total)
- Limiter on each output
- Individual input and output metering
- Safety/Compliance: CE, FCC, RoHS



# Max Effect EA 4.8



## Specification

- Input Active Balanced, 18k Ohms
- Input Level +20dBu (Max)
- Input Gain Range -40dB—+12dB
- Output Active Balanced, 112 Ohms
- Output Level +20dBu (Max)
- Output Gain Range -40dB—+12dB

## Weight, Dimensions & Power

- Unit Weight SP3.6: 7lbs (9.54kg) SP4.8: 7.3lbs (3.3kg)
- Input Level +20dBu (Max)
- Input Gain Range -40dB—+12dB
- Output Active Balanced, 112 Ohms
- Output Level +20dBu (Max)
- Output Gain Range -40dB—+12dB

## Equalizer

- EQ Filter Types 1st or 2nd Order High or Low Shelf, Parametric
- Shelving Filter Boost/Cut Range  $\pm 15$ dB
- Shelving Filter Frequency Range Low Shelf: 19.7Hz–2kHz, High Shelf: 3.8kHz–21.9kHz
- Parametric Filter Boost/Cut Range +15dB/-30dB
- Parametric Filter Frequency Range 19.7Hz–21.9kHz, 1/24 Octave Steps
- Parametric Filter Bandwidth Four Octaves to 1/64 Octave

## Delay

- Input/Output Delay 0–682ms

# Max Effect EA 4.8



## Crossover

- HPF/LPF Frequency Range 19.7Hz—21.9kHz, Off  
12dB/Oct Butterworth, 12dB/Oct Bessel,  
12dB/Oct Linkwitz-Riley  
18dB/Oct Bessel, 18dB/Oct Linkwitz-Riley
- Available Filter Types 24dB/Oct Butterworth, 24dB/Oct Bessel  
24dB/Oct Linkwitz-Riley  
48dB/Oct Butterworth, 48dB/Oct Bessel  
48dB/Oct Linkwitz-Riley

## Limiter

- Threshold Range -20dBu—+20dBu
- Ratio Range 1.2:1 to  $\infty$ :1
- Attack Time Range 0.5ms—50ms
- Release Time Range 10ms—1Sec
- Frequency Response 20Hz—20kHz,  $\pm 0.25$ dB
- THD <0.01% @ 1kHz, +20dBu
- Dynamic Range >110dB, 20Hz—20kHz unweighted
- Audio Sampling Rate 48kHz
- Propagation Delay 1.46ms

## Signal LEDs (dBu or VU)

- Inputs -20/Mute, -10, 0, +10, Clip
- Outputs -20/Mute, -10, 0, Limit Threshold, Clip

# Max Effect EA 260



## Features

- Feedback Elimination
- 2.7 Seconds of Alignment and Zone Delay
- RS-232 PC GUI control
- Classic dbx Compression and Limiting
- Graphic and Parametric EQ
- Auto-EQ Function
- Full Bandpass, Crossover, and Routing Configurations
- Auto Gain Control
- Pink Noise Generator and fulltime RTA
- Setup Wizard with JBL speaker and Crown Power Amplifier Tunings
- Security Lockout
- Wall Panel Control Inputs



# Max Effect EA 260



## Specification

- Input
  - Input Connectors
  - Input Type
  - Input Impedance
  - Max Input
  - CMRR
  - Mic Preamp Phantom Power
  - Mic Preamp Equivalent Input Noise (EIN)
  - Output
  - Output Connectors
  - Output Type
  - Output Impedance
  - Max Output
  - A/D Converter
  - A/D Dynamic Range
  - Type IV Dynamic Range
  - Sample Rate
  - D/A Dynamic Range
  - Dynamic Range
  - THD+Noise
  - Frequency Response
  - Interchannel Crosstalk
- (2) line inputs. (1) RTA Mic input  
(2) Female XLR line inputs. XLR RTA Mic input  
Electronically balanced/RF filtered  
>40k ohm  
+30dBu with input jumpers in +30 position  
> 45dB  
+15VDC (RTA)  
< -110dB, 22Hz-22kHz, 150 ohm (RTA)  
6 total  
Male XLR  
Electronically balanced, RF filtered  
120ohm  
+22dBu  
Type IV Conversion System  
(line) >113 dB, A-weighted, >110 dB unweighted  
>119 dB, A-weighted, 22kHz BW; >117 dB, A-weighted, 22kHz BW  
48kHz  
112 dB A-weighted, 109dB unweighted  
>110 dB A-weighted, >107dB unweighted  
0.003% typical at +4dBu, 1kHz, 0dB gain  
20Hz – 20kHz, +/- 0.5dB  
>110dB, 120dB typical, (input-to-output: >100dB)

# Max Effect EA208



## Physical

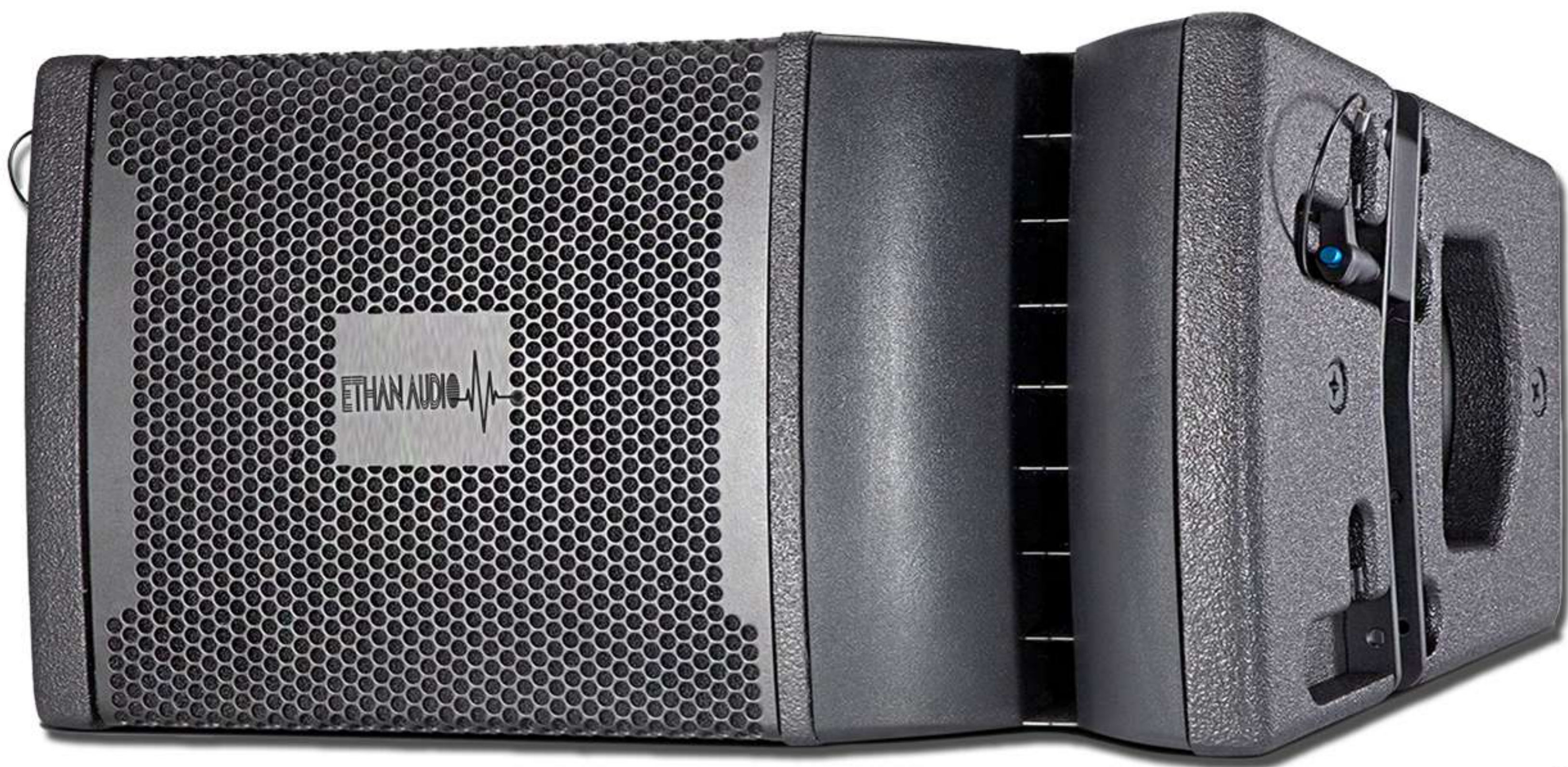
|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| Connectors           | 2 × 4-point speakON                                         |
| Rigging and handling | 4-point captive rigging system                              |
|                      | 2 side handles                                              |
|                      | 2 rear handles                                              |
|                      | inter-enclosure angles: 0°, 1°, 2°, 3°, 4°, 5°, 7.5° or 10° |
| Weight (net)         | 26 kg / 57 lb                                               |
| Cabinet              | premium grade Baltic birch plywood                          |
| Front                | coated steel grill<br>acoustically neutral 3D fabric        |
| Rigging components   | high grade steel with anti-corrosion coating                |
| Finish               | dark grey brown Pantone 426 C                               |
| IP                   | IP55                                                        |



## Specification

|                             |                                                                               |
|-----------------------------|-------------------------------------------------------------------------------|
| Usable bandwidth (-10 dB)   | 55 Hz – 20 kHz                                                                |
| Maximum SPL <sup>1</sup>    | 142 dB                                                                        |
| Nominal directivity (-6 dB) | horizontal: 70° / 110° symmetric or 90° asymmetric                            |
|                             | vertical: dependent upon the number of elements and the line source curvature |
| Transducers                 | LF: 2 × 8" neodymium cone drivers                                             |
|                             | HF: 1 × 3" neodymium diaphragm compression driver                             |
| Acoustical load             | LF: bass-reflex                                                               |
|                             | HF: waveguide, Panflex                                                        |
| Nominal impedance           | LF: 8 Ω                                                                       |
|                             | HF: 8 Ω                                                                       |

# Max Effect EA 928



## Specification

|                            |                                                 |
|----------------------------|-------------------------------------------------|
| Power Rating               | 400 W / 800 W / 1600W                           |
| Frequency Range (-10dB)    | 70 Hz - 20 kHz                                  |
| Dimensions (H x W x D)     | 230mm x 420mm x 270mm (9.0in x 16.5in x 10.5in) |
| Coverage Pattern           | 100 x 15 nominal                                |
| Frequency Response (±3 dB) | 85 Hz - 19 Hz                                   |
| Crossover Modes            | Bi-amp / passive,                               |
| Crossover Frequency        | 2.0 kHz                                         |
| Net Weight (each)          | 12.7 kg (28 lb)                                 |
| Inputs                     | Neutrik® Speakon NL-4 (x2)                      |
| Outputs                    | 1 x XLR                                         |
| Enclosure                  | Duraflex coated plywood                         |

|                       |                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------|
| System Type           | Constant Curvature 8" Two-Way Line Array System                                                        |
| Maximum SPL (1m)      | 122 dB SPL peak (passive mode) LF: 122 dB (bi-amp mode) HF: 128 dB (bi-amp mode)                       |
| Nominal Impedance     | Passive = 8 ohm<br>Bi-amp LF = 8 ohm<br>Bi-amp HF = 16 ohm                                             |
| LF Driver             | 1 x 200 mm (8 in) Differential Drive® woofer                                                           |
| HF Driver             | 2 x 25 mm (1.0 in) neodymium compression driver                                                        |
| Suspension / Mounting | Dual 36 mm pole socket included.<br>Suspension requires optional line array frame kit or M10 eyebolts. |



# Ethan Audio Active 12



## Features

- Equipped with DSP, one-way MIC-in and Line-in, Class D power module and crossover

## Specification

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Model                             | 12 inch                          |
| Driver Quantity                   | 12" x1 (Low), 1x Ø 34mm Driver   |
| Frequency Response ( $\pm 3$ dB)  | 53Hz-18KHz                       |
| Frequency Response ( $\pm 10$ dB) | 45Hz-20KHz                       |
| Max Sound Level (dB / 1M)         | 120 dB                           |
| Max Output Power                  | 500W (LF) / 200W (HF)            |
| Distortion                        | Line-0.02%, Microphone-14K Ohm   |
| Load Impedance                    | LF -8 Ohm, HF -8 Ohm             |
| Input Impedance                   | Line-14K Ohm, Microphone-14K Ohm |
| Connectors                        | XLR; 1/4" TRS                    |
| Dimension (HxLxD mm)              | 651x390x374                      |
| Packing Dimension (HxLxD mm)      | 710x445x430                      |
| Net Weight (Kg/pcs)               | 17.5                             |
| Gross Weight (Kg/pcs)             | 23                               |



# Ethan Audio Active 15



## Features

- Equipped with DSP, one-way MIC-in and Line-in, Class D power module and crossover

## Specification

|                              |                                  |
|------------------------------|----------------------------------|
| Model                        | 15 inch                          |
| Driver Quantity              | 15" x1 (Low), 1x Ø 34mm Driver   |
| Frequency Response (± 3dB)   | 45Hz-18KHz                       |
| Frequency Response (± 10dB)  | 35Hz-20KHz                       |
| Max Sound Level (dB / 1M)    | 120 dB                           |
| Max Output Power             | 600W (LF) / 200W (HF)            |
| Distortion                   | Line-0.02%, Microphone-14K Ohm   |
| Load Impedance               | LF -8 Ohm, HF -8 Ohm             |
| Input Impedance              | Line-14K Ohm, Microphone-14K Ohm |
| Connectors                   | XLR; 1/4" TRS                    |
| Dimension (HxLxD mm)         | 771x460x406                      |
| Packing Dimension (HxLxD mm) | 820x520x465                      |
| Net Weight (Kg/pcs)          | 28.43                            |
| Gross Weight (Kg/pcs)        | 30.30                            |





# Professional Loudspeaker



12EA76



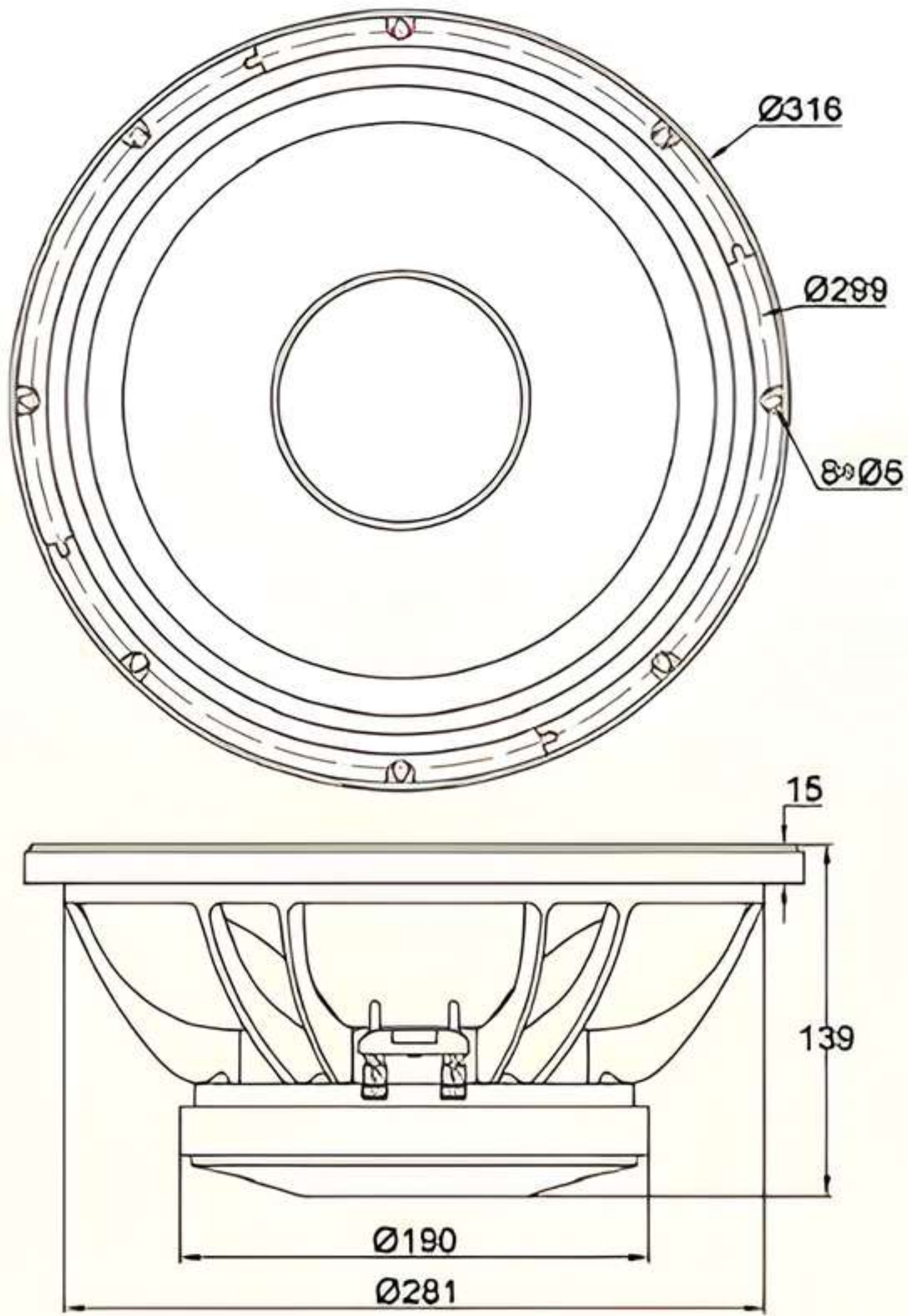
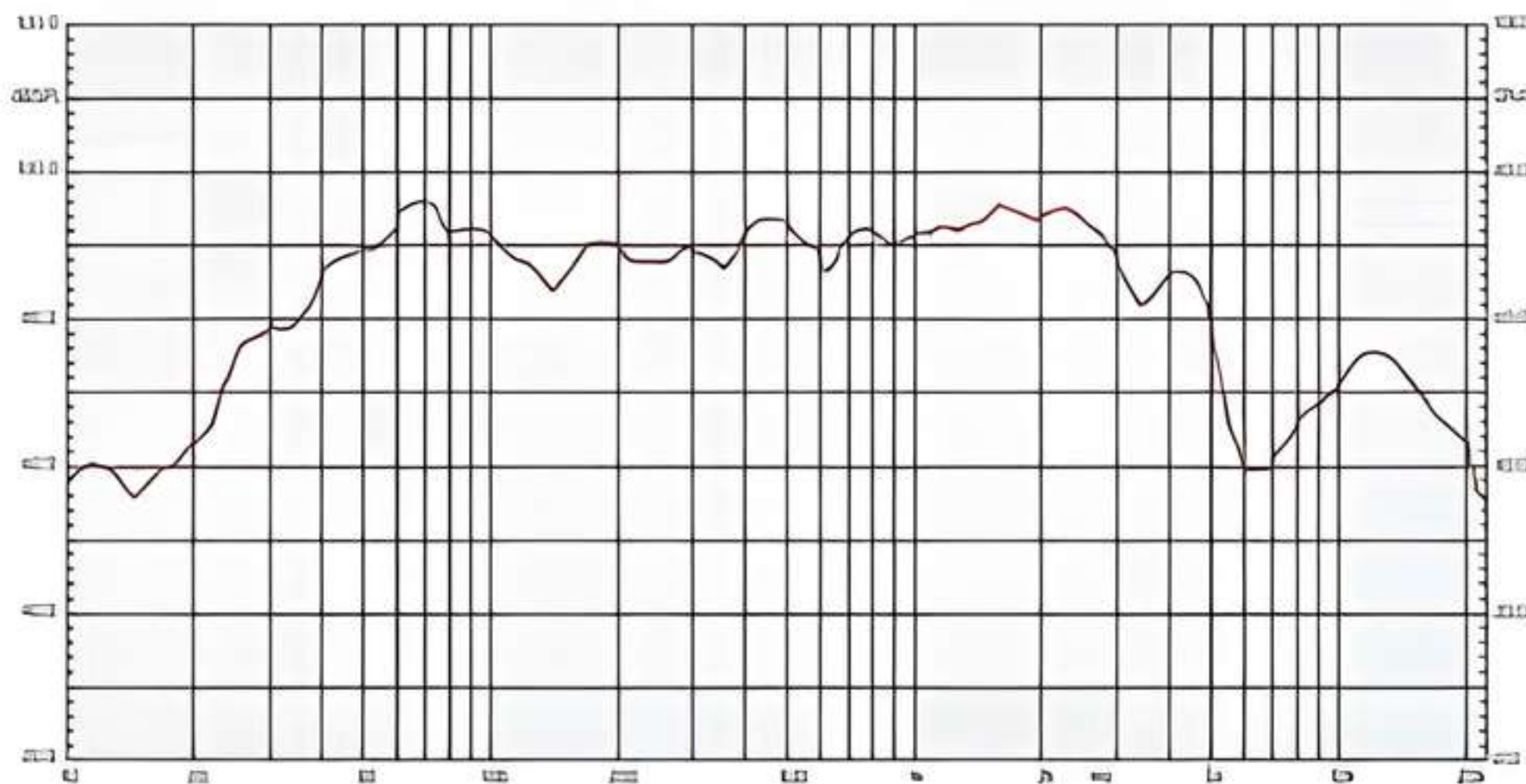
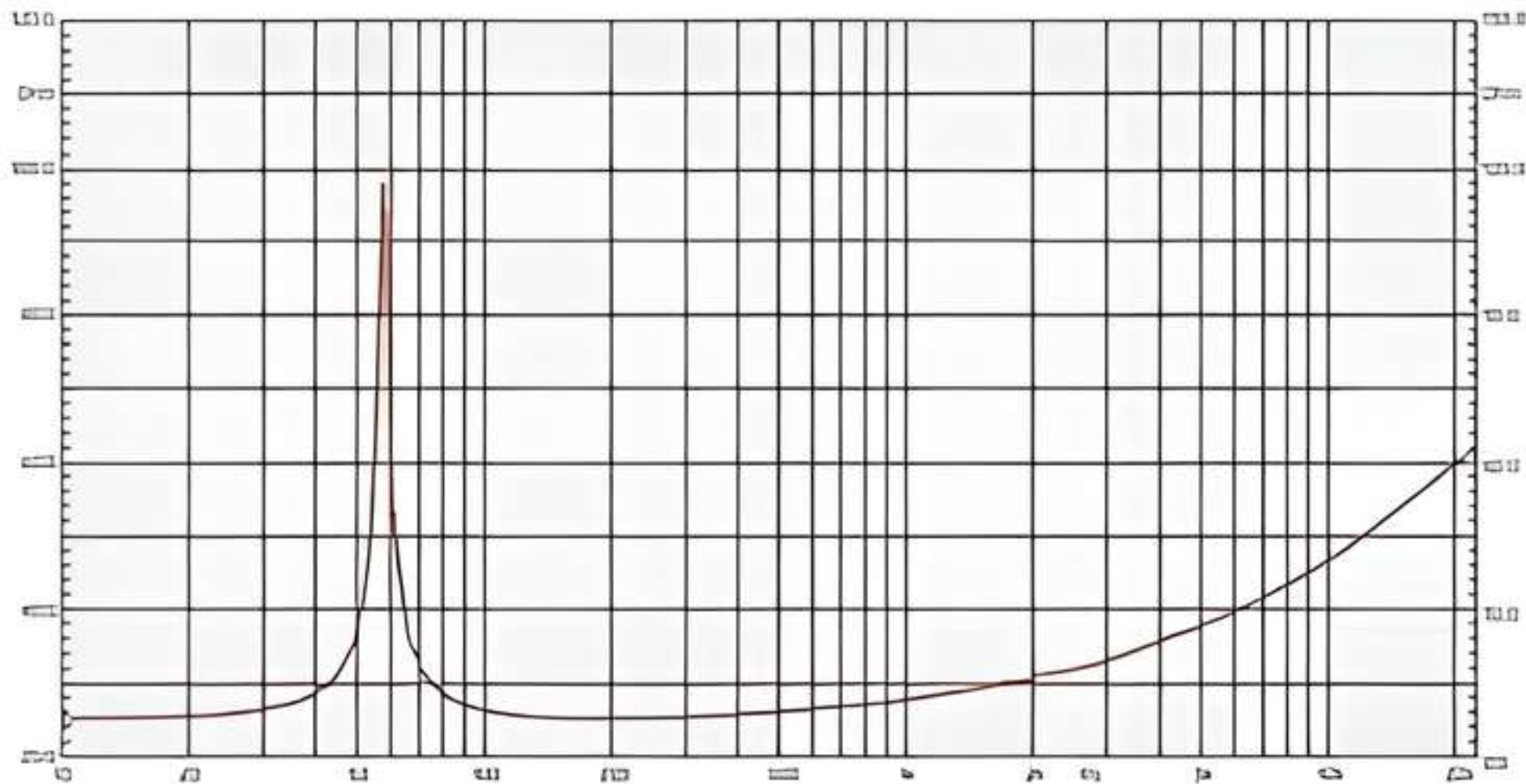
## GENERAL SPECIFICATIONS

|                                 |                   |
|---------------------------------|-------------------|
| Nominal diameter                | 320mm/12 in       |
| Power rating                    | 600W              |
| Nominal impedance               | 8Ω                |
| Sensitivity                     | 95 dB             |
| Frequency range                 | 50-3500Hz         |
| Chassis type                    | Cast aluminium    |
| Magnet type                     | Ferrite           |
| Magnet Size                     | 190X90X20 mm      |
| Magnet weight                   | 2.20 kg/77.7oz    |
| Voice coil diameter             | 75.5 mm/3in       |
| Coil material                   | SV-W              |
| Number of layers                | 2(Outside)        |
| Former material                 | Glass fiber       |
| Cone material                   | Paper             |
| Surround material               | Cloth             |
| Spider                          | Single            |
| X-max                           | 6 mm/0.23in       |
| Gap depth                       | 8 mm/0.31in       |
| Voice coil winding width        | 15 mm/0.59in      |
| Net Weight                      | 5.81 kg/pc        |
| Packing Dimension W x D x H(mm) | 330mmX330mmX350mm |
| Shipping Weight                 | 13 kg/ctn 2pc/ctn |

## SMALL SIGNAL PARAMETERS

|                |               |
|----------------|---------------|
| Re             | 6Ω            |
| Fs             | 52Hz          |
| Mms            | 66 g/2.32 oz  |
| Mmd            | 59 g/2.08 oz  |
| Qms            | 14            |
| Qes            | 0.61          |
| Qts            | 0.59          |
| Vas            | 55 lt/1.94ft³ |
| Eff            | 1.22%         |
| Bl             | 14 Tm         |
| Cms            | 0.14mm/N      |
| Rms            | 1.54 Ωm       |
| Le ( at 1kHz ) | 1.17 mH       |
| Sd             | 0.0531 m²     |

Frequency Response & Impedance Curves





# Professional Loudspeaker



15EA76



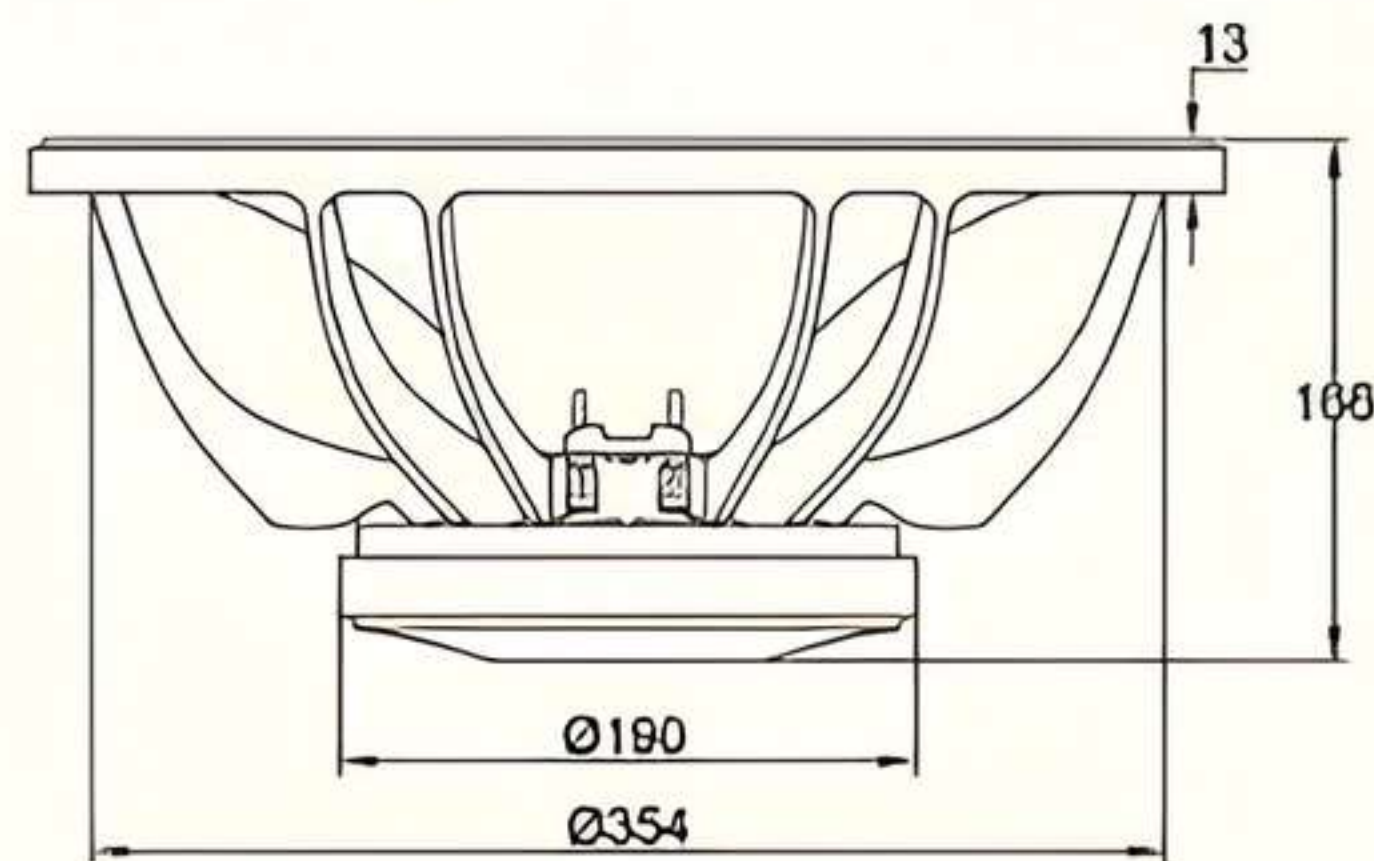
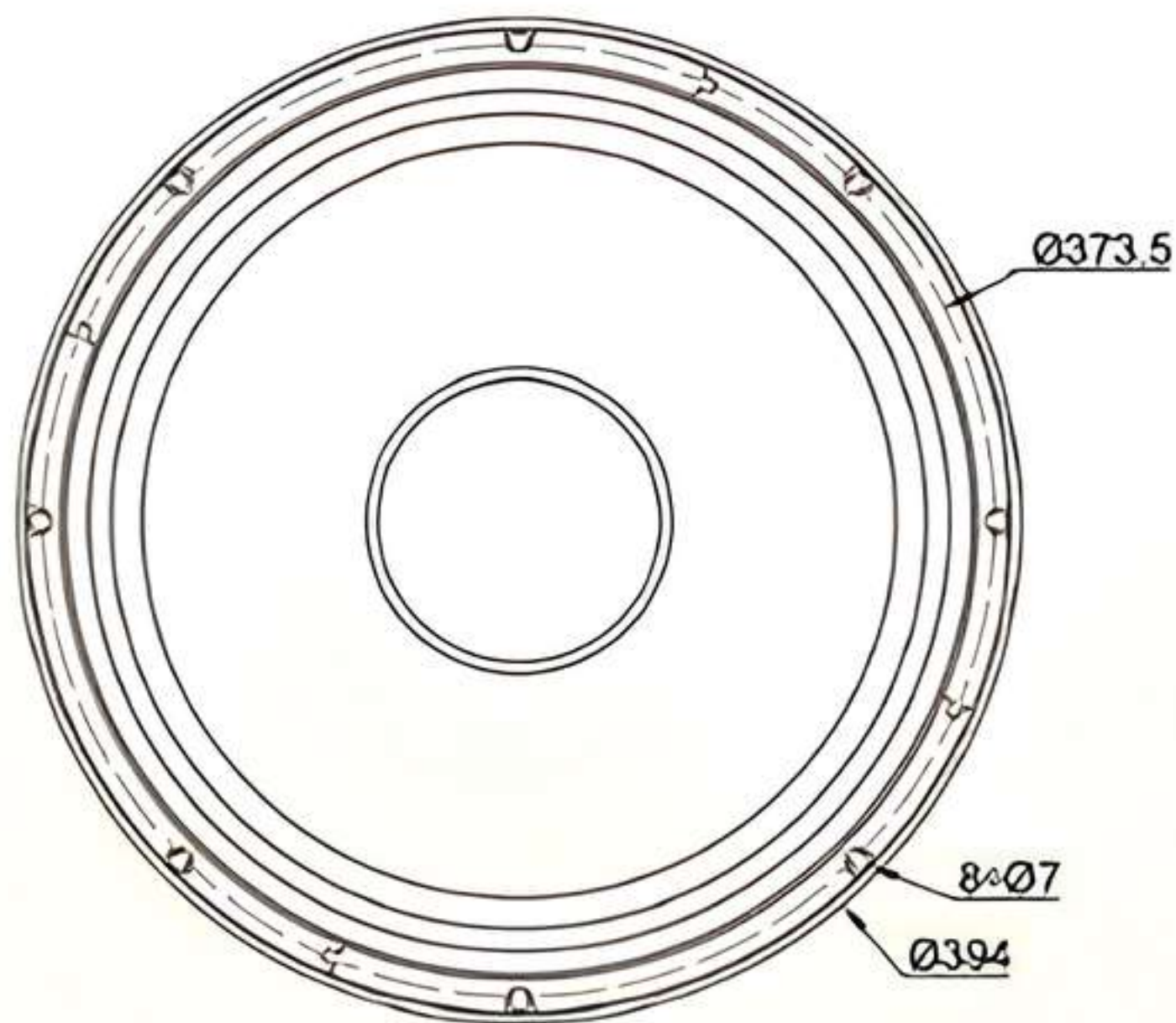
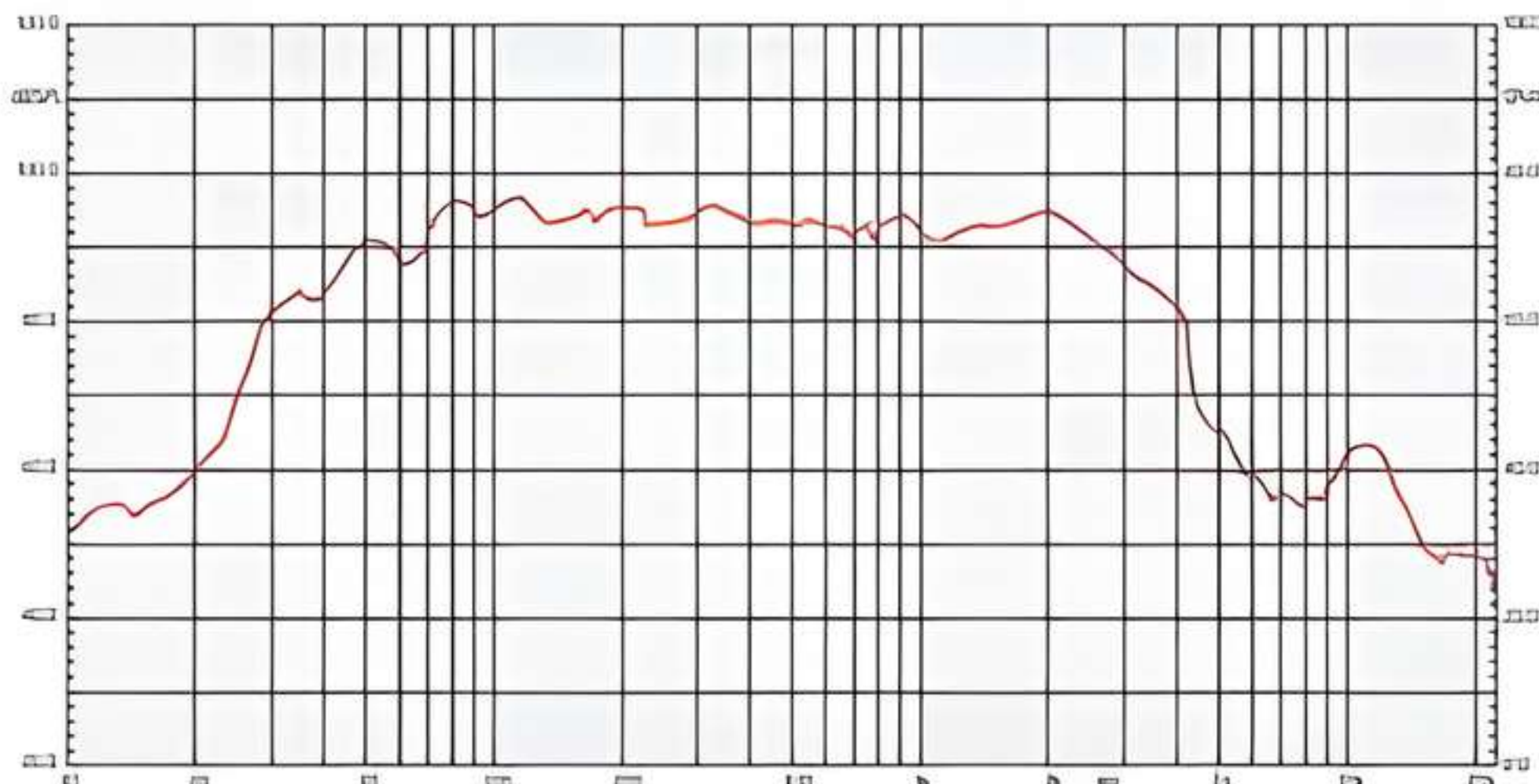
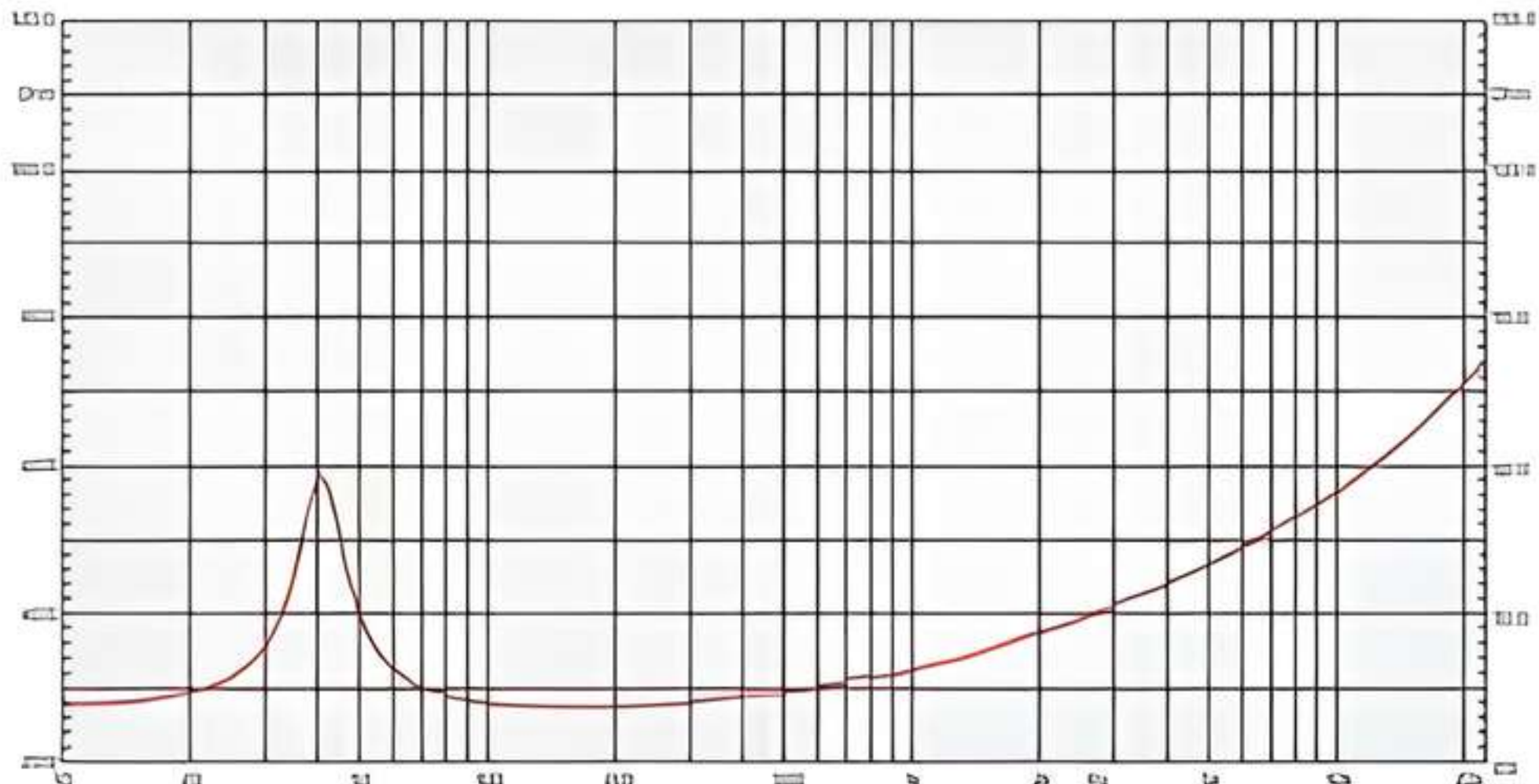
## GENERAL SPECIFICATIONS

|                                 |                     |
|---------------------------------|---------------------|
| Nominal diameter                | 380mm/15 in         |
| Power rating                    | 600W                |
| Nominal impedance               | 8Ω                  |
| Sensitivity                     | 96 dB               |
| Frequency range                 | 40-2000Hz           |
| Chassis type                    | Cast aluminium      |
| Magnet type                     | Ferrite             |
| Magnet Size                     | 190X90X20 mm        |
| Magnet weight                   | 2.23kg/78.8oz       |
| Voice coil diameter             | 75.5mm/3in          |
| Coil material                   | SV-W                |
| Number of layers                | 2(Outside)          |
| Former material                 | Aluminium           |
| Cone material                   | Paper               |
| Surround material               | Cloth               |
| Spider                          | Single              |
| X-max                           | 7 mm/0.27in         |
| Gap depth                       | 8 mm/0.31in         |
| Voice coil winding width        | 13 mm/0.51in        |
| Net Weight                      | 5.76 kg/pc          |
| Packing Dimension W x D x H(mm) | 410mmX410mmX395mm   |
| Shipping Weight                 | 12.5 kg/ctn 2pc/ctn |

## SMALL SIGNAL PARAMETERS

|                |                            |
|----------------|----------------------------|
| Re             | 6Ω                         |
| Fs             | 41 Hz                      |
| Mms            | 105 g/3.70 oz              |
| Mmd            | 91 g/3.20 oz               |
| Qms            | 4.3                        |
| Qes            | 0.79                       |
| Qts            | 0.67                       |
| Vas            | 146 lt/5.15ft <sup>3</sup> |
| Eff            | 1.21%                      |
| Bl             | 14 Tm                      |
| Cms            | 0.14 mm/N                  |
| Rms            | 6.2Ωm                      |
| Le ( at 1kHz ) | 0.93 mH                    |
| Sd             | 0.0855 m <sup>2</sup>      |

Frequency Response & Impedance Curves





# Professional Loudspeaker



## GENERAL SPECIFICATIONS

|                                 |                      |
|---------------------------------|----------------------|
| Nominal diameter                | 460mm/18 in          |
| Power rating                    | 1800W                |
| Nominal impedance               | 8Ω                   |
| Sensitivity                     | 95.5 dB              |
| Frequency range                 | 36-2000Hz            |
| Chassis type                    | Cast aluminium       |
| Magnet type                     | Ferrite              |
| Magnet Size                     | 280X140X25 mm        |
| Magnet weight                   | 5.16kg/182oz         |
| Voice coil diameter             | 125mm/5 in           |
| Coil material                   | SV-W                 |
| Number of layers                | 2(Inside/Outside)    |
| Former material                 | Glass fiber          |
| Cone material                   | Paper                |
| Surround material               | Cloth                |
| Spider                          | Double               |
| X-max                           | 11 mm/0.43in         |
| Gap depth                       | 14 mm/0.47in         |
| Voice coil winding width        | 28 mm/1.10 in        |
| Net Weight                      | 19.05 kg/pc          |
| Packing Dimension W x D x H(mm) | 520mmX520mmX235mm    |
| Shipping Weight                 | 20.75 kg/ctn 1pc/ctn |

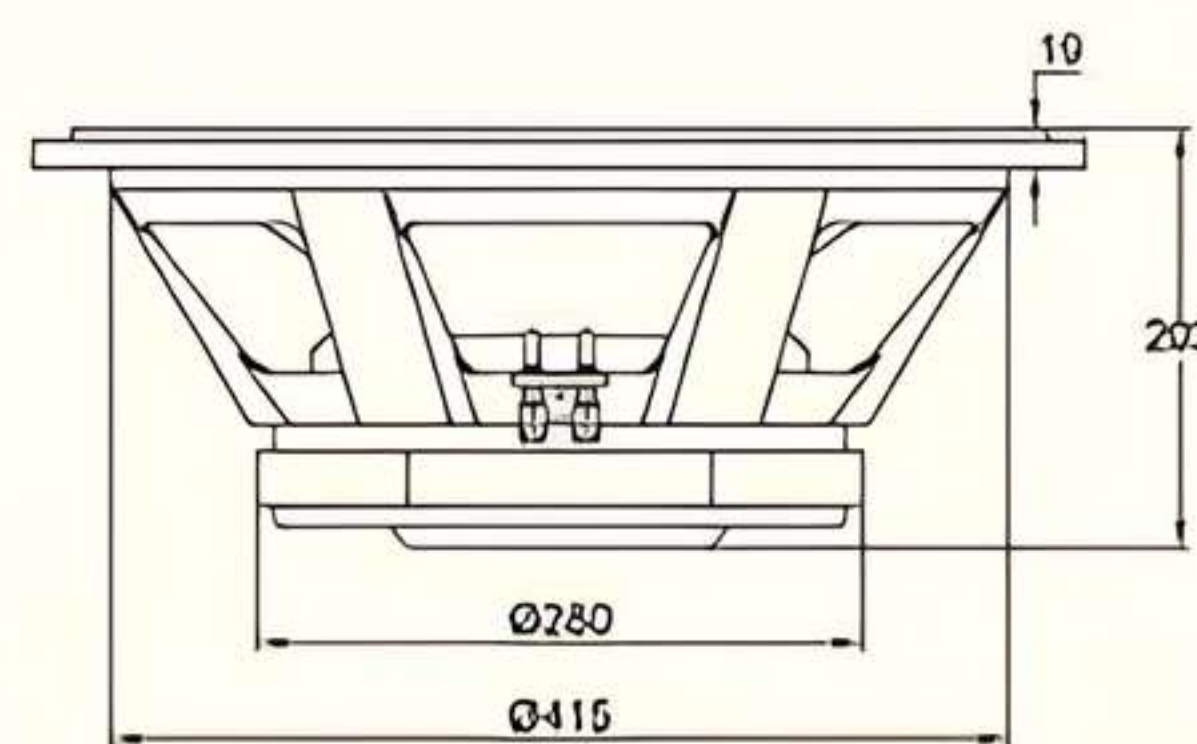
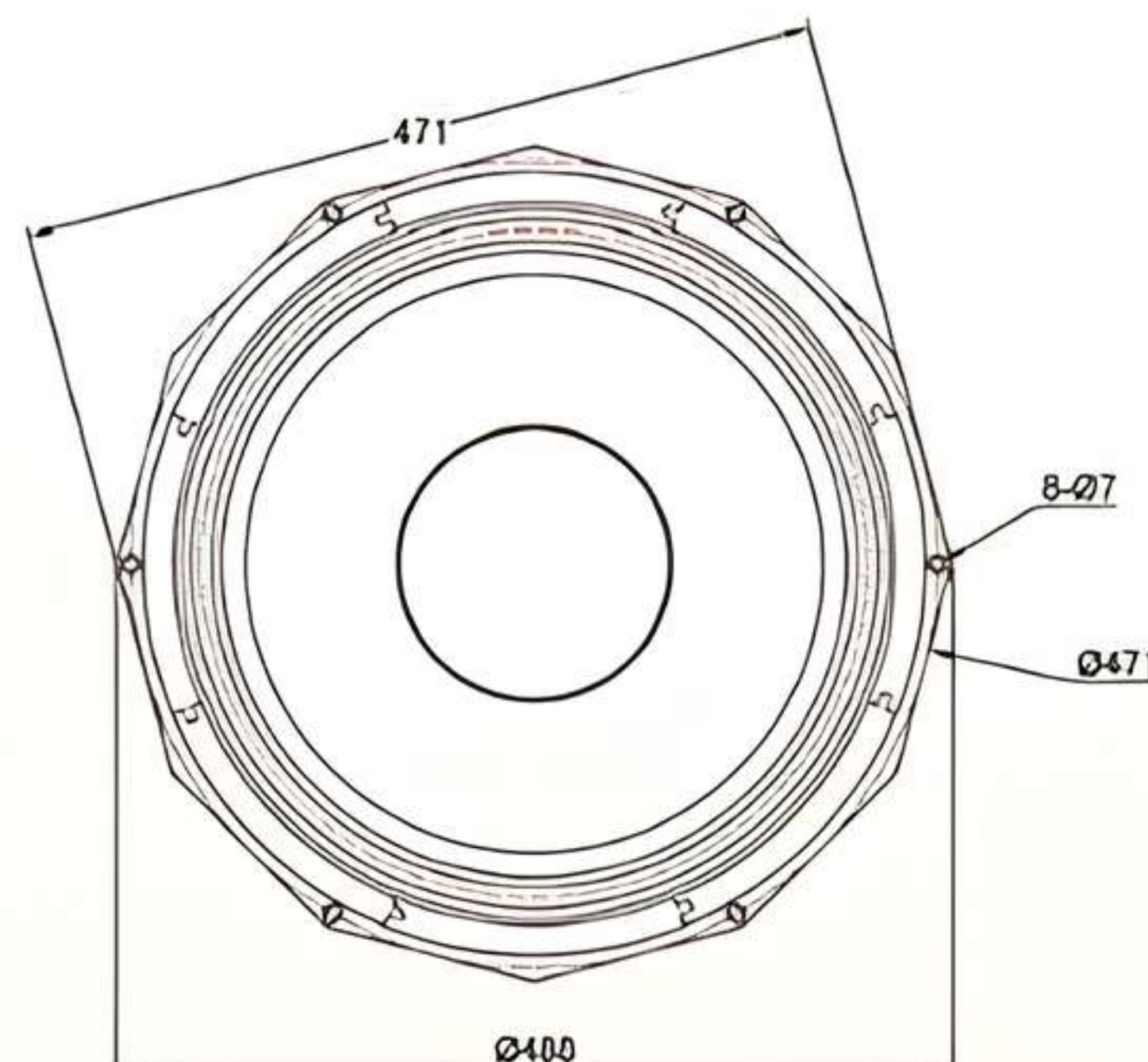
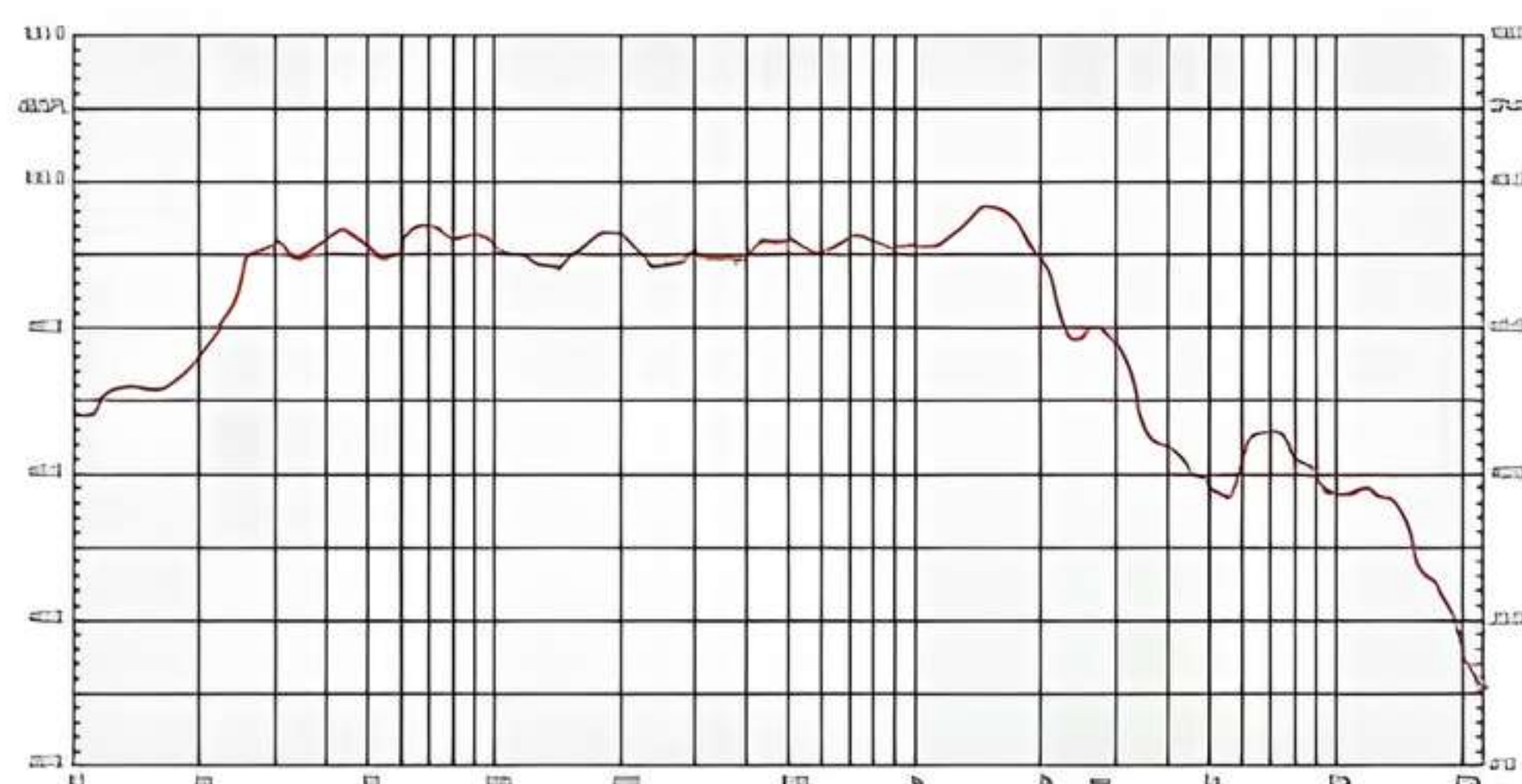
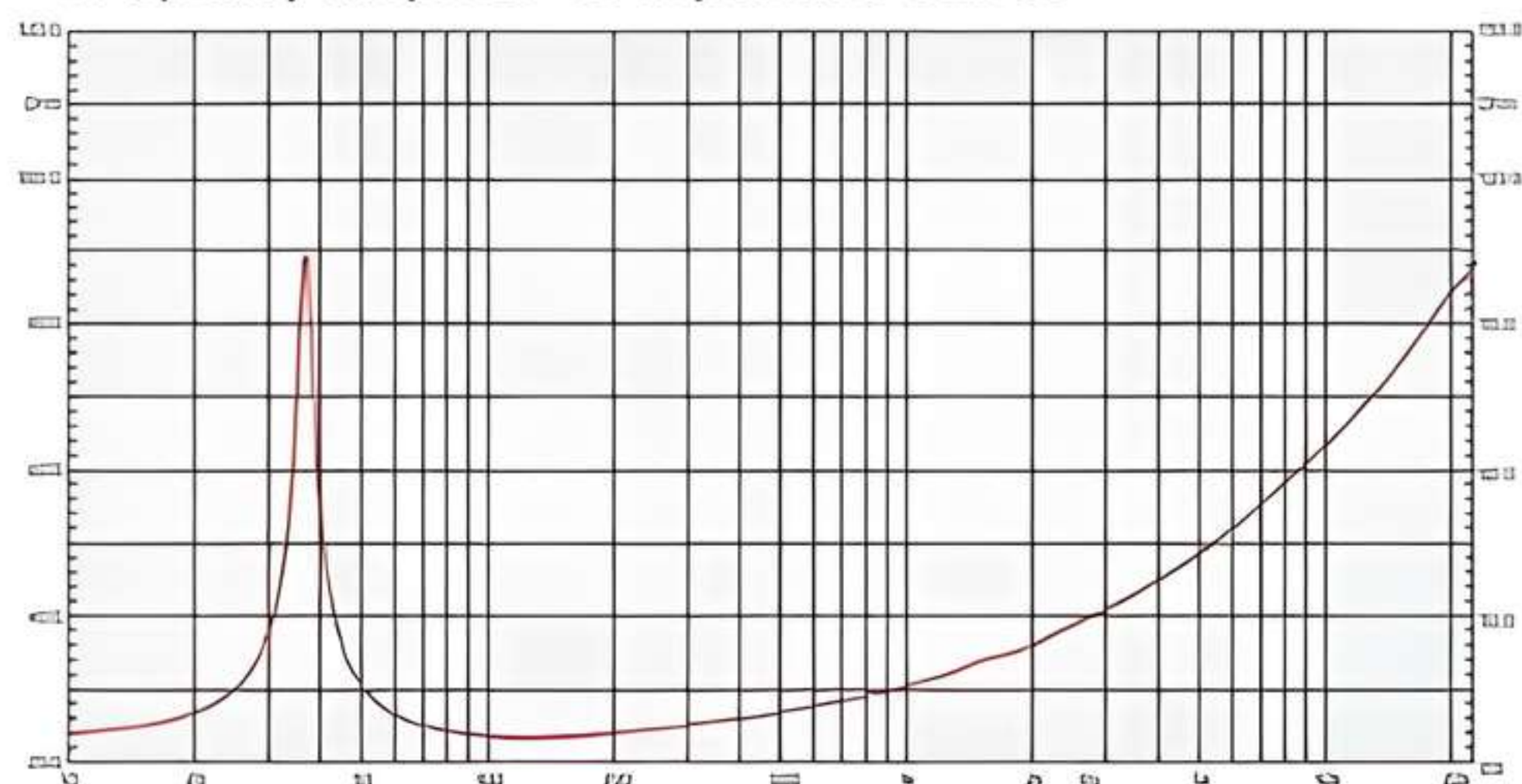
# 18EA1852



## SMALL SIGNAL PARAMETERS

|                |                |
|----------------|----------------|
| Re             | 5.2Ω           |
| Fs             | 36 Hz          |
| Mms            | 216 g/7.61 oz  |
| Mmd            | 191 g/6.73 oz  |
| Qms            | 10.5           |
| Qes            | 0.40           |
| Qts            | 0.38           |
| Vas            | 184 lt/6.49ft³ |
| Eff            | 2.1%           |
| Bl             | 25 Tm          |
| Cms            | 0.08 mm/N      |
| Rms            | 4.7 Ωm         |
| Le ( at 1kHz ) | 2.38 mH        |
| Sd             | 0.1225m²       |

Frequency Response & Impedance Curves





# Professional Loudspeaker



EA1845

## GENERAL SPECIFICATIONS

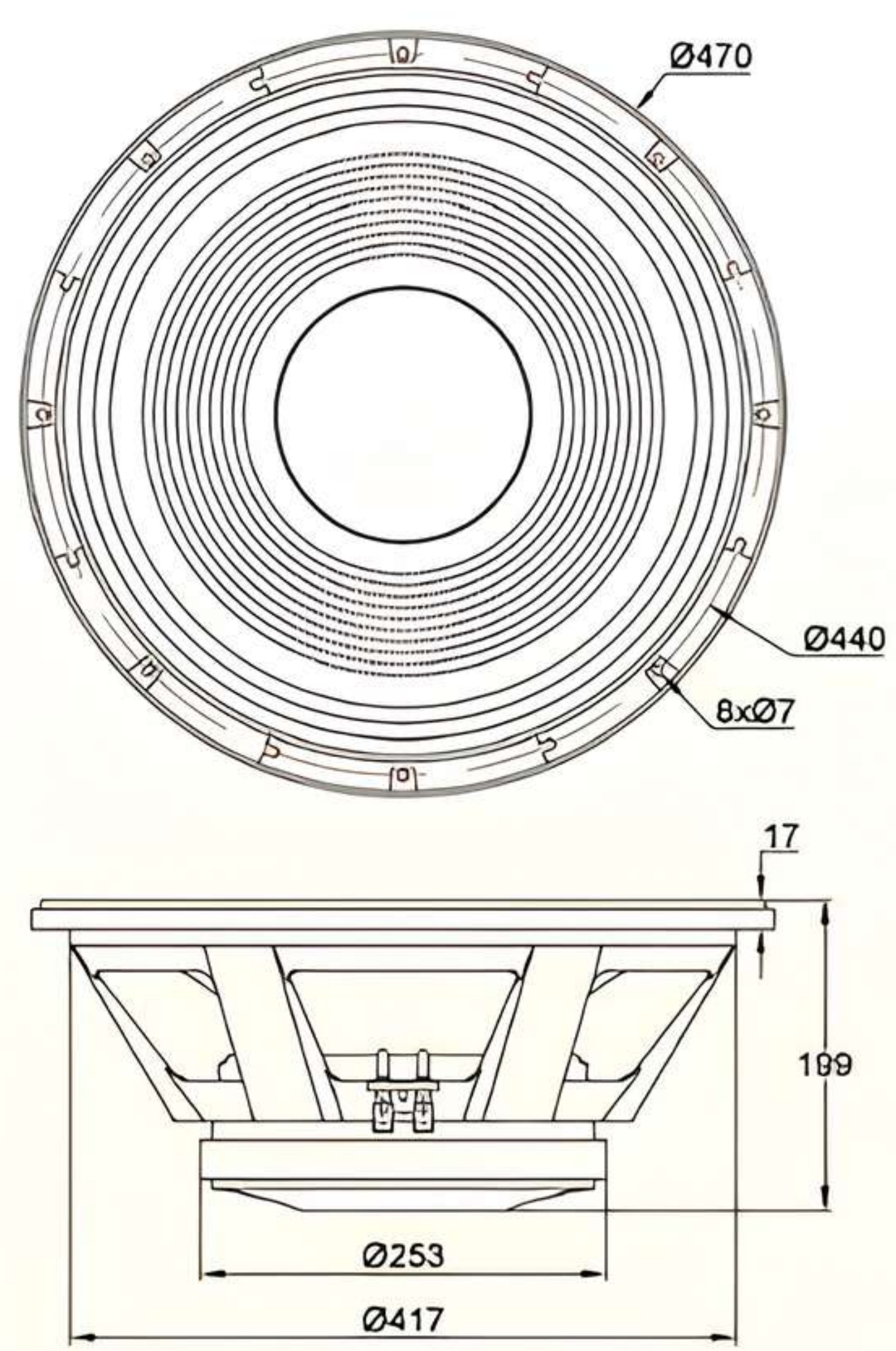
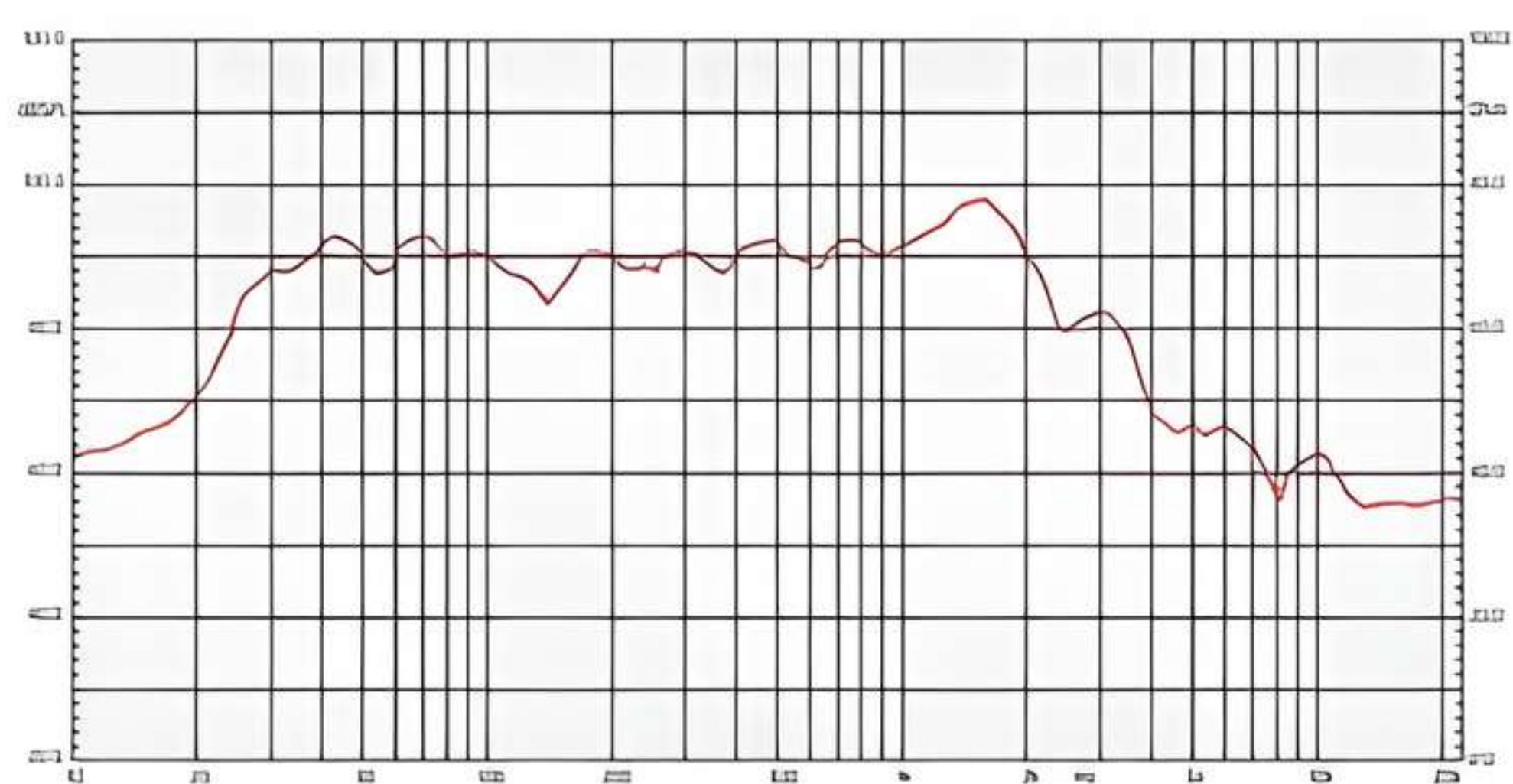
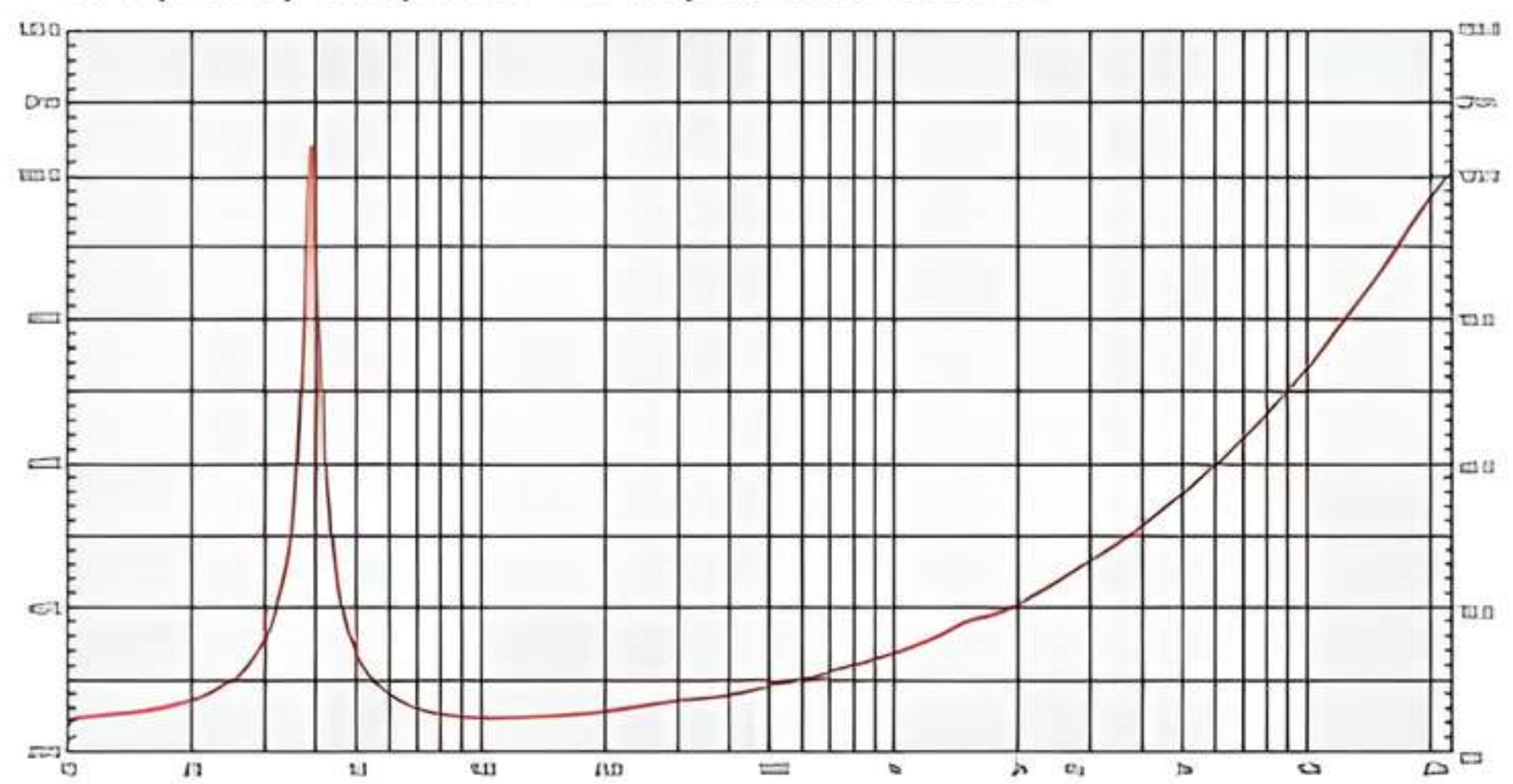
|                                 |                     |
|---------------------------------|---------------------|
| Nominal diameter                | 460mm/18 in         |
| Power rating                    | 1000W               |
| Nominal impedance               | 8Ω                  |
| Sensitivity                     | 95 dB               |
| Frequency range                 | 38-2500Hz           |
| Chassis type                    | Cast aluminium      |
| Magnet type                     | Ferrite             |
| Magnet Size                     | 253X140X25 mm       |
| Magnet weight                   | 4.43 kg/166.3 oz    |
| Voice coil diameter             | 114mm/4.5in         |
| Coil material                   | SV-W                |
| Number of layers                | 2(Inside/Outside)   |
| Former material                 | Glass fiber         |
| Cone material                   | Paper               |
| Surround material               | Cloth               |
| Spider                          | Single              |
| X-max                           | 11 mm/0.43in        |
| Gap depth                       | 12 mm/0.47in        |
| Voice coil winding width        | 28 mm/1.10in        |
| Net Weight                      | 16.24 kg/pc         |
| Packing Dimension W x D x H(mm) | 490mmX480mmX240mm   |
| Shipping Weight                 | 17.5 kg/ctn 1pc/ctn |



## SMALL SIGNAL PARAMETERS

|                |               |
|----------------|---------------|
| Re             | 5.6Ω          |
| Fs             | 39 Hz         |
| Mms            | 233 g/8.21 oz |
| Mmd            | 209 g/7.37 oz |
| Qms            | 12            |
| Qes            | 0.56          |
| Qts            | 0.53          |
| Vas            | 142 l/5.01ft³ |
| Eff            | 1.44%         |
| Bl             | 24 Tm         |
| Cms            | 0.07mm/N      |
| Rms            | 4.75 Ωm       |
| Le ( at 1kHz ) | 2.18 mH       |
| Sd             | 0.1195 m²     |

Frequency Response & Impedance Curves

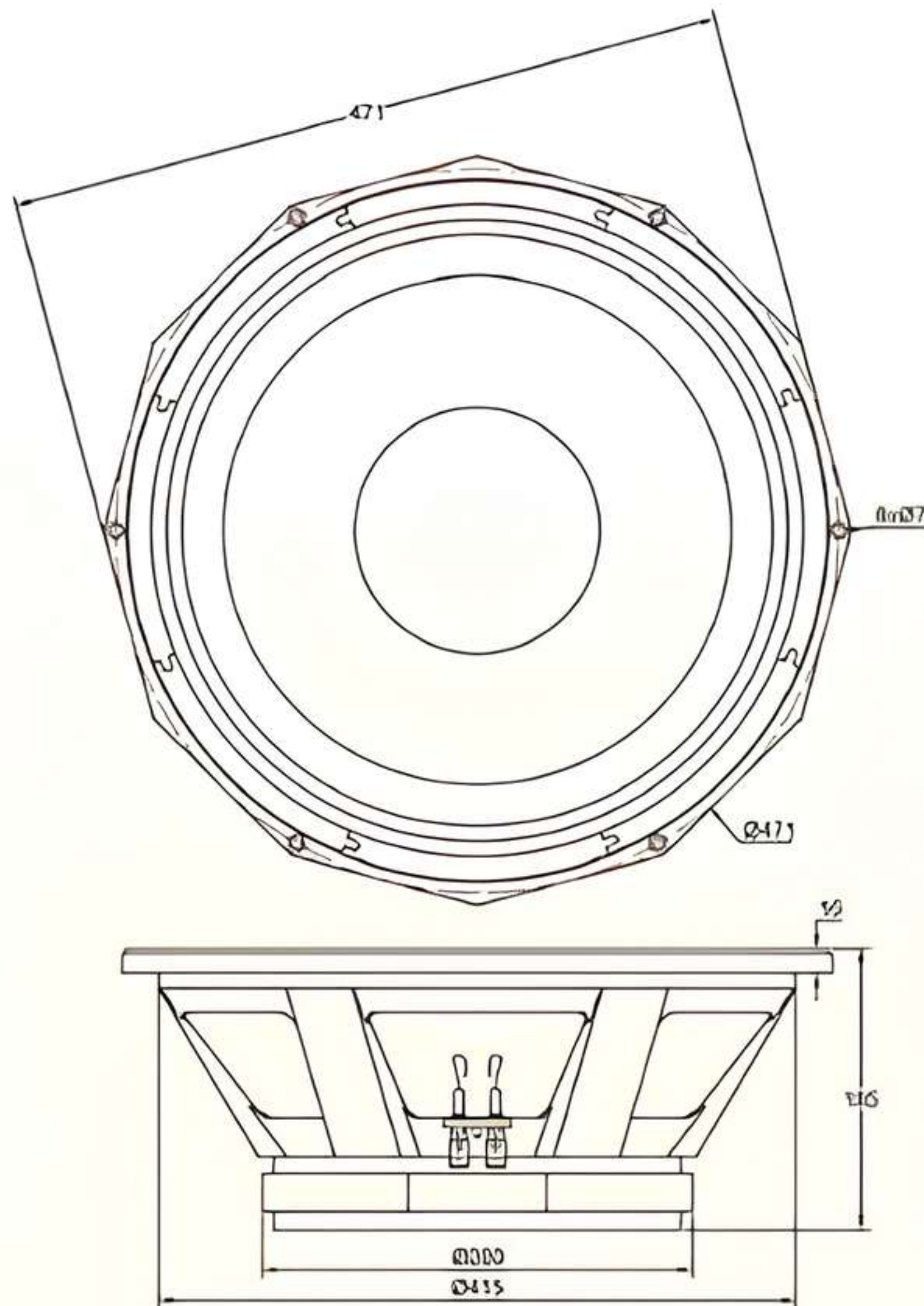




# Professional Loudspeaker



EA1850



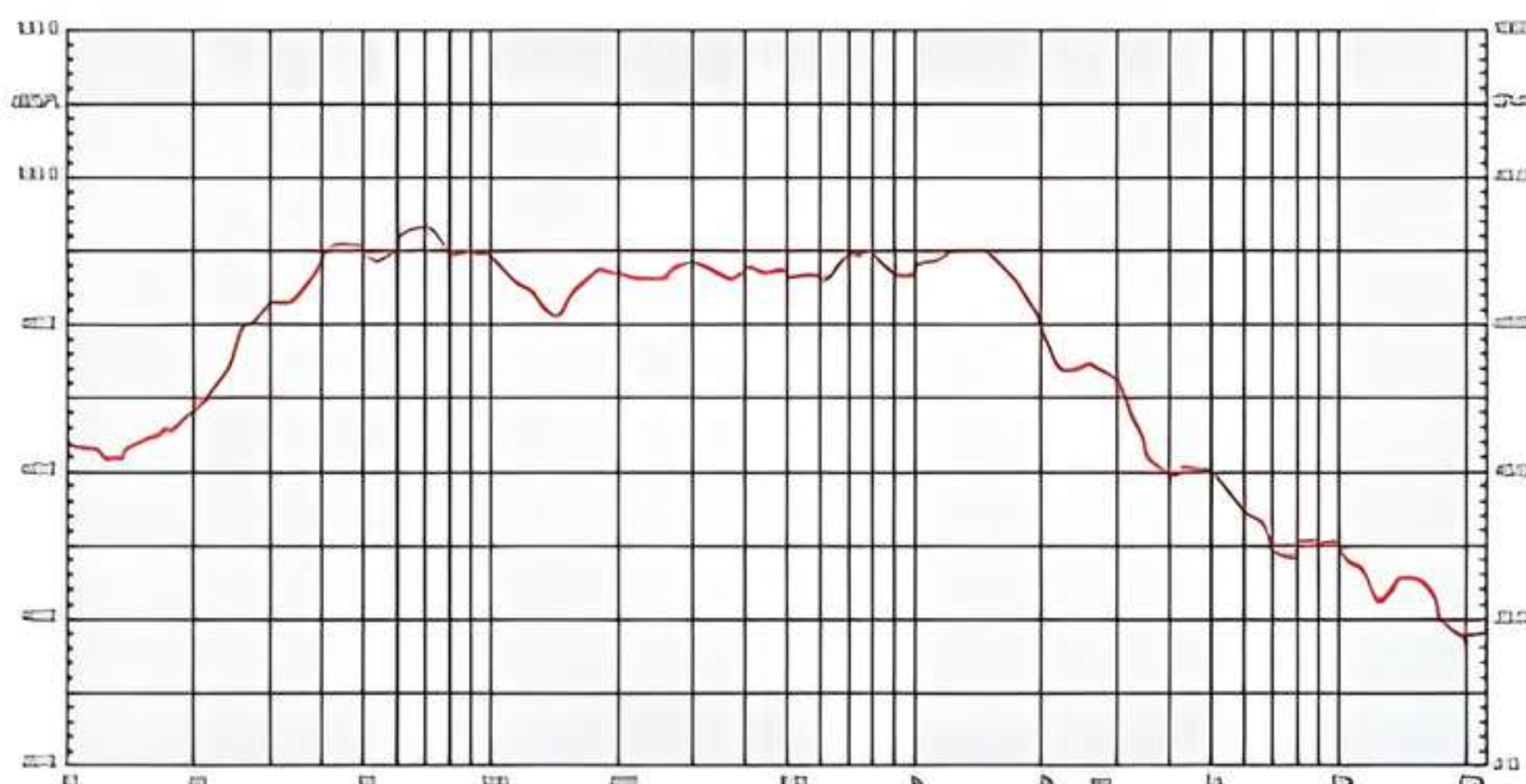
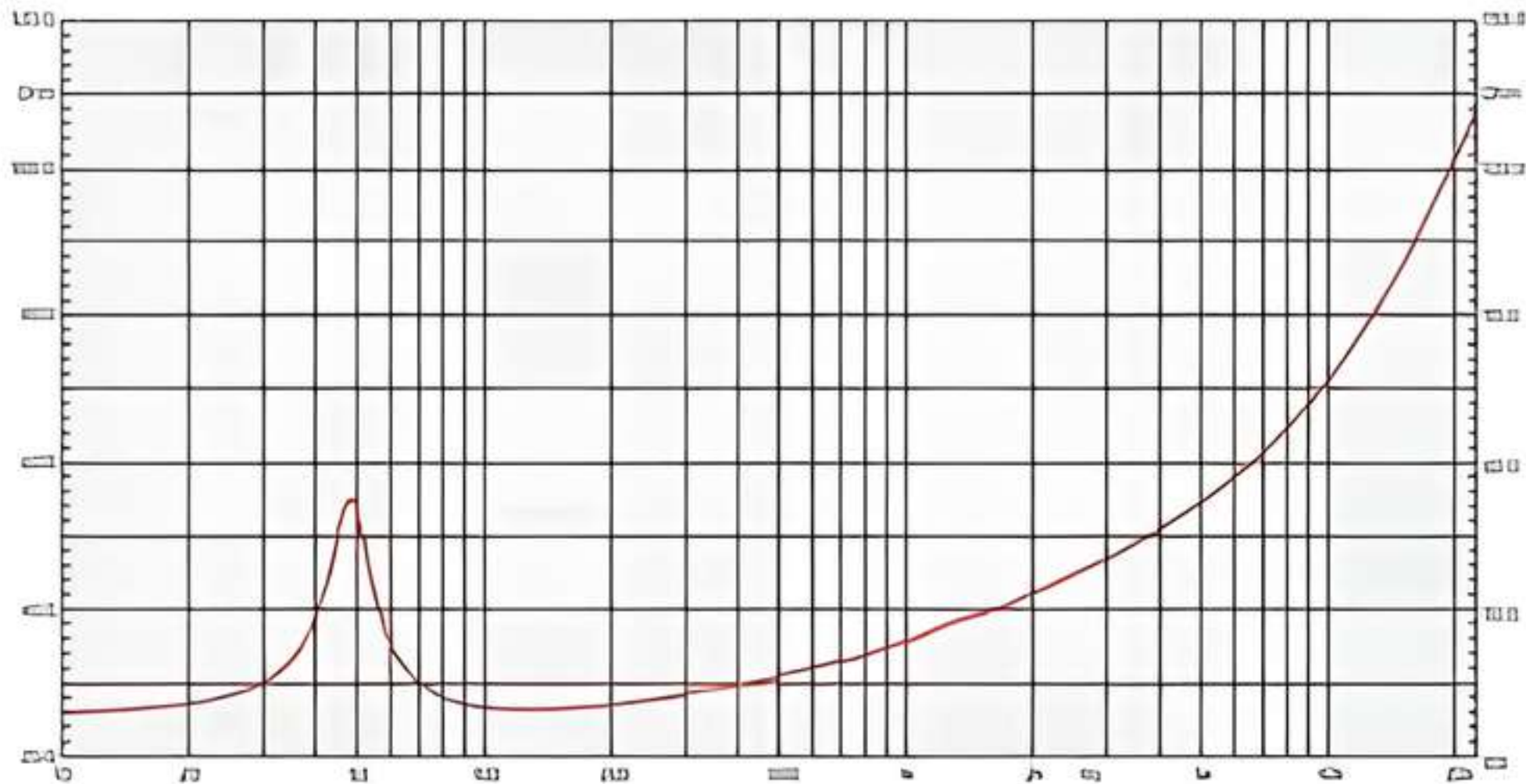
## GENERAL SPECIFICATIONS

|                                 |                      |
|---------------------------------|----------------------|
| Nominal diameter                | 460mm/18 in          |
| Power rating                    | 1500W                |
| Nominal impedance               | 8Ω                   |
| Sensitivity                     | 97 dB                |
| Frequency range                 | 35-2000Hz            |
| Chassis type                    | Cast aluminium       |
| Magnet type                     | Ferrite              |
| Magnet Size                     | 280X180X25 mm        |
| Magnet weight                   | 4.58 kg/161.9oz      |
| Voice coil diameter             | 125 mm/5in           |
| Coil material                   | SV-W                 |
| Number of layers                | 2(Outside)           |
| Former material                 | Aluminium            |
| Cone material                   | Paper                |
| Surround material               | Cloth                |
| Spider                          | Double               |
| X-max                           | 10 mm/0.39in         |
| Gap depth                       | 10 mm/0.39in         |
| Voice coil winding width        | 25 mm/0.98in         |
| Net Weight                      | 15.25 kg/pc          |
| Packing Dimension W x D x H(mm) | 485mmX480mmX230mm    |
| Shipping Weight                 | 17.07 kg/ctn 1pc/ctn |

## SMALL SIGNAL PARAMETERS

|                |               |
|----------------|---------------|
| Re             | 5.2Ω          |
| Fs             | 48Hz          |
| Mms            | 263 g/9.27 oz |
| Mmd            | 239 g/8.43 oz |
| Qms            | 4.7           |
| Qes            | 0.81          |
| Qts            | 0.70          |
| Vas            | 87 l/3.07ft³  |
| Eff            | 1.14%         |
| Bl             | 23 Tm         |
| Cms            | 0.04mm/N      |
| Rms            | 17 Ωm         |
| Le ( at 1kHz ) | 1.44 mH       |
| Sd             | 0.1225 m²     |

Frequency Response & Impedance Curves



# Max Effect EA 2200



## Specification

|                                                                                                        |                                                                                   |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Channels (Mono + Stereo)                                                                               | 18 + 4                                                                            |
| Auxiliarys (MON, FX, AUX)                                                                              | 2 Pre, 2 Post, 2 Pre/Post switchable                                              |
| MIC GAIN (Mono / Stereo)                                                                               | 0 to +60 dB / +10 to +60 dB                                                       |
| LINE/CD/USB GAIN (Stereo)                                                                              | -10 to +20 dB                                                                     |
| THD, at 1 kHz, MBW = 80 kHz                                                                            |                                                                                   |
| MIC input to Master A L/R outputs, +16 dBu, typical                                                    | < 0.005%                                                                          |
| Frequency Response, -3 dB, ref. 1 kHz, any input to any Mixer output                                   | 15 Hz to 70 kHz                                                                   |
| Crosstalk, 1 kHz                                                                                       |                                                                                   |
| Fader & FX/AUX/MON-Send attenuation                                                                    | > 85 dB                                                                           |
| Channel to Channel                                                                                     | < -80 dB                                                                          |
| CMRR, MIC input, 1 kHz                                                                                 | > 80 dB                                                                           |
| Input Sensitivity, all level controls in max. position MIC / LINE (Mono) / LINE (Stereo) / CD (Stereo) | -74 dBu (155 $\mu$ V) / -54 dBu (1.55 mV) / -34 dBu (15.5 mV) / -34 dBu (15.5 mV) |

## Input Impedances

|                       |                                 |
|-----------------------|---------------------------------|
| MIC / Insert Return   | 2 k $\Omega$ / > 3.3 k $\Omega$ |
| 2Track Return & CD In | 10 k $\Omega$                   |
| All other inputs      | > 15 k $\Omega$                 |

## Output Impedances

|                                                           |             |
|-----------------------------------------------------------|-------------|
| Phones                                                    | 47 $\Omega$ |
| All other outputs                                         | 75 $\Omega$ |
| Equivalent Input Noise, MIC input, A-weighted, 150 ohms   | -130 dBu    |
| Noise, Channel inputs to Master A L/R outputs, A-weighted |             |
| Master fader down                                         | -97 dBu     |
| Master fader 0 dB, Channel fader down                     | -87 dBu     |
| Master fader 0 dB, Channel fader 0 dB, Channel gain unity | -81 dBu     |

# Max Effect EA 2200

## Digital Output Interface

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Channels                        | 4 In / 4 Out                      |
| AD/DA Conversion, Sampling Rate | 24-bit, 44.1 / 48 / 88.2 / 96 kHz |
| PC Interface                    | USB2.0, Female Type B             |
| Supported OS                    |                                   |
| MIDI Interface                  | 5-pin DIN connector, In / Out     |

## Equalization

|                                                                             |                          |
|-----------------------------------------------------------------------------|--------------------------|
| LO Shelving                                                                 | ±15 dB / 60 Hz           |
| MID Peaking, mono inputs                                                    | ±15 dB / 100 Hz to 8 kHz |
| MID Peaking, stereo inputs                                                  | ±12 dB / 2.4 kHz         |
| HI Shelving                                                                 | ±15 dB / 12 kHz          |
| Master EQ 11-band (63, 125, 250, 400, 630, 1k, 1.6k, 2.5k, 4k, 6.3k, 12kHz) | ±10 dB / Q = 1.5 to 2.5  |

## Effects

|                       |                                                                                  |
|-----------------------|----------------------------------------------------------------------------------|
| Type, effects presets | Dual stereo 24/48-bit multi effects processors, 100 Factory + 20 User, Tap-Delay |
| Remote control        | Footswitch, MIDI                                                                 |
| Display               | 128 x 64 pixels, OLED                                                            |

## Filter

|                           |                              |
|---------------------------|------------------------------|
| LO-CUT, mono inputs       | f = 80 Hz, 18 dB/oct.        |
| VOICE FILTER, mono inputs | switchable                   |
| FEEDBACK FILTER, MON 1/2  | 70 Hz to 7 kHz, Notch, -9 dB |

## Maximum Level, Mixing Desk

|                                       |                   |
|---------------------------------------|-------------------|
| MIC inputs                            | +21 dBu           |
| Mono Line inputs / Stereo Line inputs | +41 dBu / +30 dBu |
| All other inputs                      | +22 dBu           |
| All other outputs                     | +22 dBu           |

# Max Effect EA 2200

## Protection

|                                                       |                                           |
|-------------------------------------------------------|-------------------------------------------|
| Mixer Outputs (Relay controlled)                      | MON 1, MON 2, MASTER A                    |
| Switching Mode Power Supply (µC controlled)           | Mains Over/Undervoltage, High Temperature |
| Phantom Power, switchable in groups                   | 48 V DC                                   |
| Power Requirements (SMPS with auto range mains input) | 100 V to 240 V AC, 50 Hz to 60 Hz         |
| Dimensions (W x H x D, without lid), mm               | 818.5 x 155.0 x 498.5                     |
| Weight, without lid                                   | 14.5 kg                                   |

# Max Effect EA EM6



## Features

- Four input channels, each with gain, three-band EQ, and LED metering
- USB computer connection for playing and recording with Mac or PC
- Play music from music-player software
- Record your mix to your computer
- Multiple phono, line, and mic inputs
- Dedicated XLR mic channel and additional mic input on channel 4
- Replaceable crossfader with slope control
- Assign any channel to either side of the crossfader

## Includes

- EM6 USB Mixer
- Power Cable
- Quickstart Guide

## Specification

- Weight: 9.6 lbs
- Dimensions (WxDxH): 12.625" x 14.25" x 4"



# Max Effect EA60



## Features

- 100 W continuous program power capacity
- 1" horn throat diameter
- 44 mm (1.7 in) aluminium voice coil
- Polyimide diaphragm
- 1200 - 18000 Hz response
- 108.5 dB sensitivity
- Compact Neodymium magnet assembly

## Specification

|                           |                |
|---------------------------|----------------|
| Throat Diameter           | 25 mm (1.0 in) |
| Nominal Impedance         | 8 $\Omega$     |
| Minimal Impedance         | 7.7 $\Omega$   |
| Nominal Power Handling    | 50 W           |
| Continuous Power Handling | 100 W          |
| Sensitivity               | 108.5 dB       |
| Frequency Range           | 1.0 – 18.0 kHz |
| Recommended Crossover     | 1.6 kHz        |
| Voice Coil Diameter       | 44 mm (1.7 in) |
| Winding Material          | Aluminium      |
| Inductance                | 0.11 mH        |
| Diaphragm Material        | Polyimide      |
| Flux Density              | 1.8 T          |
| Magnet Material           | Neodymium Ring |



# Max Effect EA400



## Features

- Dual 3.5” voice coils / annular diaphragms
- Perfect acoustical coupling
- Extremely high efficiency
- Exceptionally high power handling of 400 W (AES)
- Provides 6 dB more sound pressure than a comparable single voice coil driver
- Ultra low distortion
- Specially designed for extreme high output applications
- Neodymium Magnet Assembly
- Ultra light weight and small size
- 2x 8 Ohm or 2x 16 Ohm



## Specification

|                        |                                                |
|------------------------|------------------------------------------------|
| Throat                 | 2" (50.8mm)                                    |
| Nominal impedance      | 2x 8 or 2x 16 Ohm                              |
| Power capacity (AES)   | 400 W (2 x 200 W above 300 Hz)                 |
| Peak power             | 2000 W (2 x 1000 W above 400 Hz)               |
| Sensitivity            | 2x1W/1m 123 dB on a 40° x 20° waveguide        |
| Frequency range        | 200 - 9000 Hz                                  |
| Recommended crossover  | 250 Hz                                         |
| Voice coil             | 2 x 3.5 " (2 x 90 mm)                          |
| Magnet material        | Neodymium                                      |
| Flux density mid-range | 1.95 T                                         |
| Voice coil material    | Copper (2 layers Inside and outside of the VC) |
| Voice coil former      | Kapton                                         |
| Diaphragm material     | Polyester                                      |

# Max Effect EA750



## Features

- 220 W continuous program power capacity
- 2" horn throat diameter
- 75 mm (3 in) aluminium voice coil
- Titanium diaphragm
- 500 - 18000 Hz response
- 107.5 dB sensitivity

## Specification

|                           |                |
|---------------------------|----------------|
| Throat Diameter           | 50 mm (2.0 in) |
| Nominal Impedance         | 8 Ω            |
| Minimal Impedance         | 7.8 Ω          |
| Nominal Power Handling    | 110 W          |
| Continuous Power Handling | 220 W          |
| Sensitivity               | 107.5 dB       |
| Frequency Range           | 0.5 – 18.0 kHz |
| Recommended Crossover     | 0.8 kHz        |
| Voice Coil Diameter       | 75 mm (3.0 in) |
| Winding Material          | Aluminium      |
| Inductance                | 0.14 mH        |
| Diaphragm Material        | Titanium       |
| Flux Density              | 1.9 T          |
| Magnet Material           | Ferrite        |



# Max Effect EA850



## Features

- The EA850 high frequency compression driver handles 90 Watts AES & 180 Watts program power handling.
- Excellent Clarity & warm high frequency characteristics.
- High Quality Application include Concert, Sound Reinforcement, Theatres, Dance Clubs, etc.
- THIS IS A SERIOUS 2" DRIVER!

## Specification

|                           |                            |
|---------------------------|----------------------------|
| Horn Throat Exit Diameter | 2" / 50.8mm                |
| Impedance                 | 8 Ohms                     |
| Frequency Response        | 500 Hz - 20kHz             |
| AES Power                 | 90 Watts AES @ 1kHz        |
| Program Power             | 180 Watts Program @ 1.2kHz |
| Minimum Cut-off Frequency | 800 Hz                     |
| Sensitivity (SPL)         | 109dB                      |
| Voice Coil Diameter       | 2.93" / 74.4mm             |
| Voice Coil Former         | Kapton                     |
| Diaphragm Material        | Titanium                   |
| Voice Coil Material       | Aluminum Flat Wire         |
| Flux Density              | 1.6 Tesla                  |
| Net Weight                | 4.7 kg. / 10.34 lbs.       |



# Max Effect EA4592



## Features

- Extended Bandwidth (300 - 22000 Hz)
- Neodymium magnet assembly
- With two subsystems in one, each driver covers a smaller frequency range for increased power handling, high dynamic and extremely low distortion
- Excellent phase coherence
- Perfect time alignment without problems of multi-source interference
- Ultra light weight



## Specification

|                         |                         |
|-------------------------|-------------------------|
| Throat Diameter         | 2" (50.8 mm)            |
| Nominal Impedance       | 8 or 16 Ohm             |
| Middle range (AES)      | 150 W above 400Hz       |
| Peak                    | 1000 W peak above 500Hz |
| High Range              | 80 W                    |
| Peak                    | 320 W                   |
| Sensitivity 1W/1m       | 118 dB on 2242 Horn     |
| Frequency Range (Hz)    | 300 - 22000             |
| Recommended Crossover   | 300 Hz                  |
| Middle Frequency Range  | 300 - 7000 Hz           |
| High Frequency Range    | 6000 - 22000 Hz         |
| Middle / High Crossover | 6300 Hz                 |
| Voice Coil High Range   | 1.75" (44.4 mm)         |
| Voice Coil Mid Range    | 3.5" (90 mm)            |
| Magnet Material         | Neodymium               |
| Flux Density (Tesla)    | 1.95 (mid), 2.0 (high)  |
| Efficiency              | 35% (300 - 5000 Hz)     |
| Voice Coil Material     | Copper Clad Aluminum    |
| Voice Coil Former       | Kapton                  |
| Diaphragm               | Polyester               |