

SB|ACOUSTICS

SB|AUDIENCE

### SB AUDIENCE

SB Audience is a new range from the heavyweight OEM manufacturing of Sinar Baja Electric Indonesia. With well over 30 years of experience in the development and manufacturing of solutions for professional OEM drivers for well known brands in the PRO audio industry. Expect great results.

- **Bianco**: achieves good performance at the most reasonable cost.
- **Rosso**: aims at high performance at an attractive price.
- **Nero**: is our higher performance line still achieving exceptional price performance ratio

- Mid-Woofers
- Sub-Woofers
- Compression Horn Drivers
- Coaxial 2-Way Integrated

POWER AES: Long-term power rating as tested to the professional standards set by the [Audio Engineering Society](#)

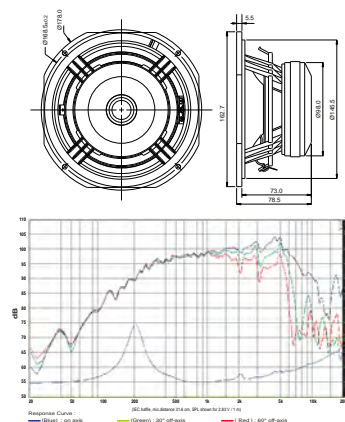
# AUDIENCE



### SB AUDIENCE NERO 6" MID-RANGE

- Proprietary cone paper material with graphite
- Cast aluminium chassis & neodymium magnet
- Flat foam surround for best mid-range reproduction
- Shorting ring in motor system for reduced distortion
- CCAW voice coil for reduced moving mass

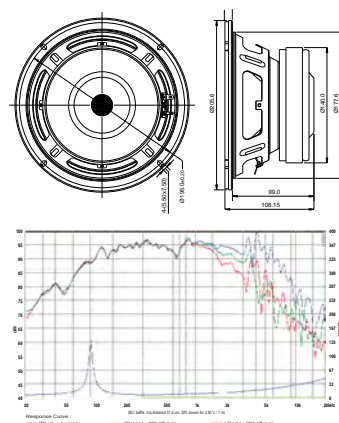
Impedance	8Ω (Re 5.6Ω)
Fs	200Hz
Sens.	98dB
Power	150W AES
Qms	2.98
Qes	0.58
Qts	0.48
Vas	1.1L
Code	NERO-6MRN150D



### SB AUDIENCE BIANCO 8" MID-WOOFER

- Proprietary cone paper material made in-house
- 2" voice coil with APC (Advanced Polymer Coating)
- Vented back plate for reduced compression
- CCAW voice coil wire for reduced moving mass
- Minimum damping fibre glass voice coil former
- Long life silver lead wires

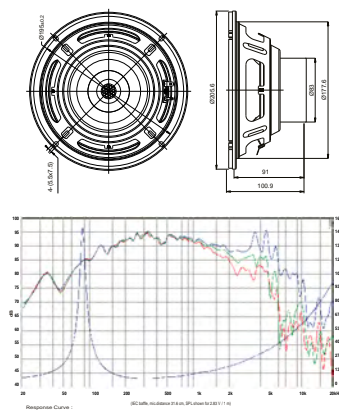
Impedance	8Ω (Re 5.6Ω)
Fs	88Hz
Sens.	94dB
Power	125W AES
Qms	13.09
Qes	0.55
Qts	0.52
Vas	9.8L
Code	BIANCO-8MW125



### SB AUDIENCE BIANCO 8" MID-WOOFER NEO

- Proprietary cone paper material made in-house
- Neodymium magnet with Vented back plate
- 2.4" voice coil with APC (Advanced Polymer Coating)
- Minimum damping fibre glass voice coil former
- CCAW voice coil wire for reduced moving mass
- Long life silver lead wires

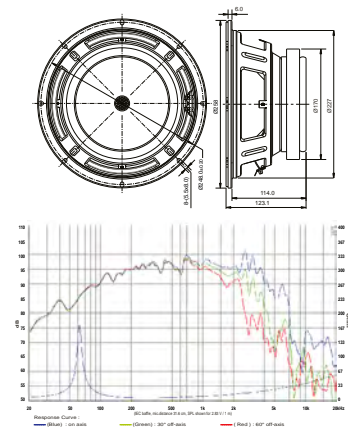
Impedance	8Ω (Re 6.8Ω)
Fs	77Hz
Sens.	93dB
Power	150W AES
Qms	8.54
Qes	0.38
Qts	0.36
Vas	10L
Code	BIANCO-8MWN150



## SB AUDIENCE BIANCO 10" MID-WOOFER

- Proprietary cone paper material with linter pulp
- 2.4" voice coil with APC (Advanced Polymer Coating)
- Vented back plate for reduced compression
- Minimum damping fibre glass voice coil former
- Weather-proof coated cone paper
- Long life silver lead wires

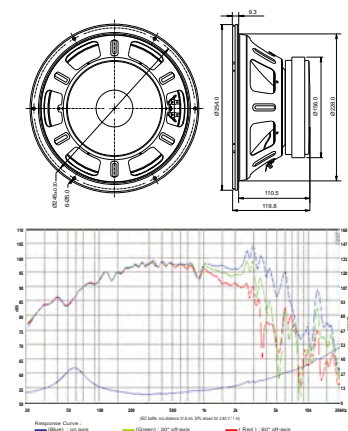
Impedance	8Ω (Re 5.2Ω)
Fs	60Hz
Sens.	98dB
Power	150W AES
Qms	11.81
Qes	0.3
Qts	0.29
Vas	34.6L
Code	BIANCO-10MW150



## SB AUDIENCE BIANCO 10" MID-WOOFER

- Proprietary cone paper material with linter pulp
- 2.4" voice coil with APC (Advanced Polymer Coating)
- Vented back plate for reduced compression
- Minimum damping fibre glass voice coil former
- Weather-proof coated cone paper
- Long life silver lead wires

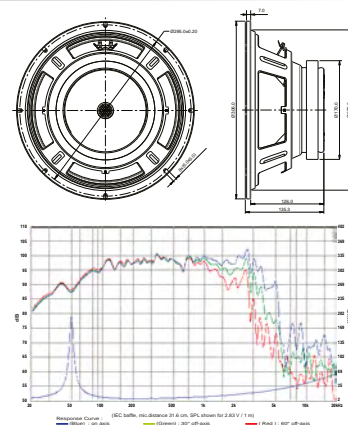
Impedance	8Ω (Re 5.7Ω)
Fs	58Hz
Sens.	97dB
Power	200W AES
Qms	1.86
Qes	0.41
Qts	0.33
Vas	39.3L
Code	BIANCO-10MW200



## SB AUDIENCE BIANCO 12" MID-WOOFER

- Proprietary cone paper material with silk cotton tree and manila pulp
- 2.4" voice coil with APC (Advanced Polymer Coating)
- Vented back plate for reduced compression
- Minimum damping fibre glass voice coil former
- Long life silver lead wires
- Weather-proof coated cone paper

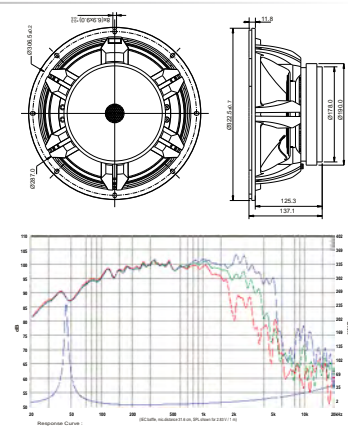
Impedance	8Ω (Re 5.2Ω)
Fs	50Hz
Sens.	98dB
Power	200W AES
Qms	14.47
Qes	0.4
Qts	0.39
Vas	68.7L
Code	BIANCO-12MW200



## SB AUDIENCE ROSSO 12" MID-WOOFER

- Proprietary paper cone material with silk cotton tree
- 3" Interleaved Sandwich Voice coil
- Cast aluminium chassis
- Minimum damping fibre glass voice coil former
- CCAW voice coil for reduced moving mass
- Vented back plate for reduced compression

Impedance	8Ω (Re 5.2Ω)
Fs	43Hz
Sens.	99dB
Power	300W AES
Qms	12.7
Qes	0.27
Qts	0.26
Vas	104.2L
Code	ROSSO-12MW300

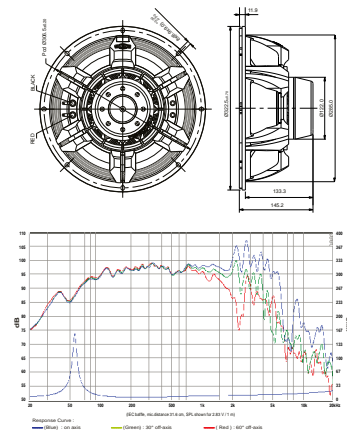




## SB AUDIENCE NERO 12" MID-WOOFER

- Proprietary cone paper material with manila pulp
- Cast aluminium chassis & Strong neodymium motor
- 3" voice coil with APC (Advanced Polymer Coating)
- Copper sleeve for low inductance and reduced distortion
- Interleaved Sandwich Voice coil technology
- Minimum damping fibre glass voice coil former

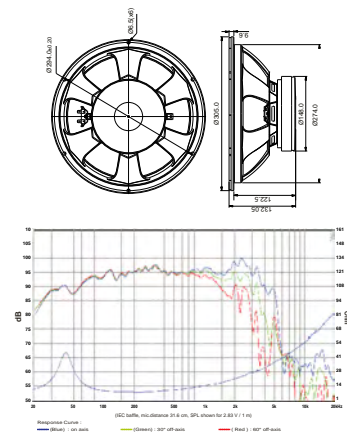
Impedance	8Ω (Re 5.3Ω)
Fs	55Hz
Sens.	97dB
Power	400W AES
Qms	11.56
Qes	0.4
Qts	0.38
Vas	48.3L
Code	NERO-12MWN400D



## SB AUDIENCE BIANCO 12" OPEN BAFFLE WOOFER

- Proprietary cone paper material with silk cotton tree and manila pulp made in-house
- 2.4" Non-Conducting fibre glass voice coil former
- Long life silver lead wires
- Weather-proof coated cone paper
- Designed for open baffle applications

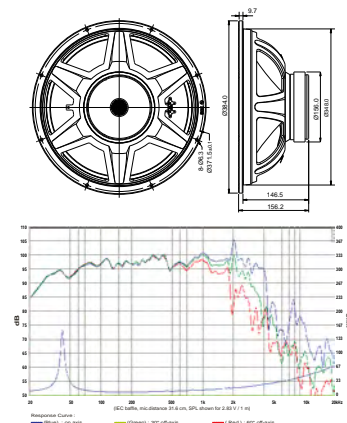
Impedance	8Ω (Re 7.2Ω)
Fs	41Hz
Sens.	95dB
Power	150W AES
Qms	3.25
Qes	0.6
Qts	0.5
Vas	109L
Code	BIANCO-120B150



## SB AUDIENCE BIANCO 15" MID-WOOFER

- Proprietary cone paper material made in-house
- Vented back plate for reduced compression
- Corrugation cone paper for improved durability
- 2.4" Minimum damping fibre glass voice coil
- Weather-proof coated cone paper

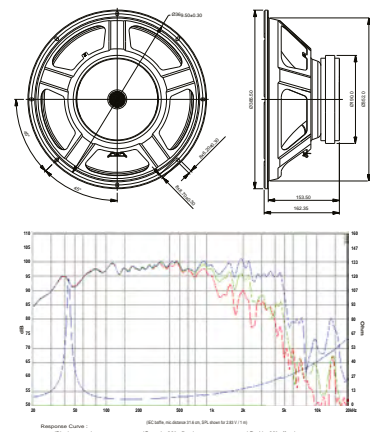
Impedance	8Ω (Re 6.8Ω)
Fs	42Hz
Sens.	98dB
Power	200W AES
Qms	13.32
Qes	0.61
Qts	0.58
Vas	181.1L
Code	BIANCO-15MW200



## SB AUDIENCE BIANCO 15" WOOFER

- Proprietary cone paper material with silk cotton tree and manila pulp
- 3" voice coil with APC (Advanced Polymer Coating)
- Minimum damping fibre glass voice coil former
- Vented back plate for reduced compression
- Long life silver lead wires
- Weather-proof coated cone paper

Impedance	8Ω (Re 5.2Ω)
Fs	44Hz
Sens.	99dB
Power	200W AES
Qms	11.99
Qes	0.54
Qts	0.52
Vas	155.8L
Code	BIANCO-15W200







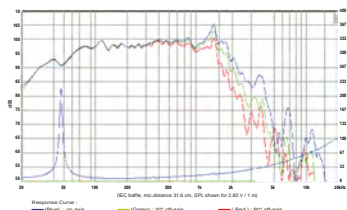
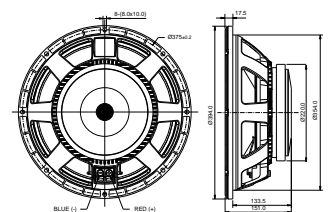


## SB Audience Subwoofer Drivers

### SB AUDIENCE BIANCO 15" SUBWOOFER

- Proprietary cone paper material with silk cotton tree
- 4" voice coil with APC (Advanced Polymer Coating)
- Cast aluminium chassis
- Corrugation cone paper for improved durability
- Minimum damping fibre glass voice coil former
- Vented back plate for reduced compression

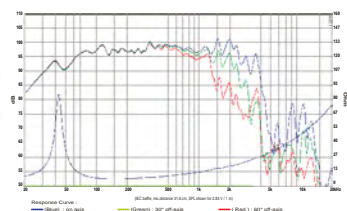
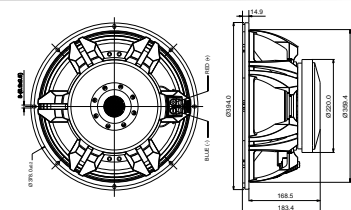
Impedance	8Ω (Re 5.6Ω)
Fs	47Hz
Sens.	97dB
Power	400W AES
Qms	19.94
Qes	0.53
Qts	0.51
Vas	90.4L
Code	BIANCO-15SW400



### SB AUDIENCE ROSSO 15" SUBWOOFER

- Cast aluminium chassis & Proprietary cone paper material
- Minimum damping fibre glass voice coil former
- 4" voice coil with APC (Advanced Polymer Coating)
- Ribbon voice coil wire for high efficiency
- Vented back plate for reduced compression

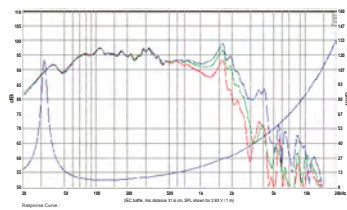
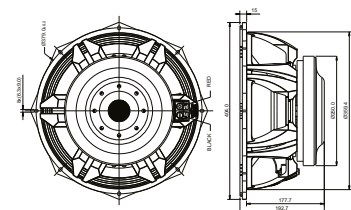
Impedance	8Ω (Re 5.2Ω)
Fs	39Hz
Sens.	97dB
Power	800W AES
Qms	10.64
Qes	4.5
Qts	0.45
Vas	140L
Code	ROSSO-15SW800



### SB AUDIENCE NERO 15" SUBWOOFER

- Proprietary cone paper material with silk cotton tree and manila pulp
- 4.5" fibre glass voice coil with APC (Advanced Polymer Coating)
- Cooling device on head yoke for increased heat transfer
- Vented back plate for reduced compression
- Double spider for high stability suspension
- Heavy-Duty Cast aluminium chassis

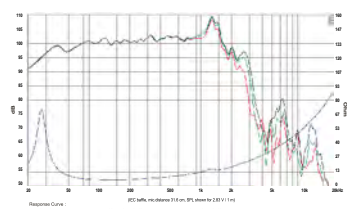
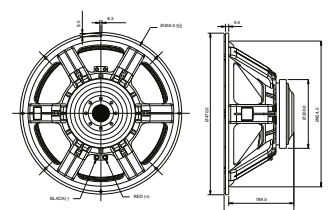
Impedance	8Ω (Re 5.2Ω)
Fs	31Hz
Sens.	96dB
Power	800W AES
Qms	7.59
Qes	0.36
Qts	0.34
Vas	128L
Code	NERO-15SW800



### SB AUDIENCE BIANCO 18" SUBWOOFER

- Proprietary cone paper material with silk cotton tree
- 3" voice coil with APC (Advanced Polymer Coating)
- Minimum damping fibre glass voice coil former
- Cast aluminium chassis & Vented back plate
- Weather-proof coated cone paper
- Triple roll surround allows long excursion

Impedance	8Ω (Re 5Ω)
Fs	27Hz
Sens.	100dB
Power	450W AES
Qms	6.11
Qes	0.4
Qts	0.38
Vas	423L
Code	BIANCO-18SW450

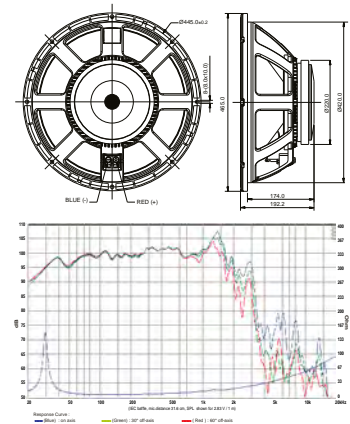




## SB AUDIENCE BIANCO 18" SUBWOOFER

- Proprietary cone paper material with silk cotton tree
- 4" fibre glass voice coil former with APC
- Cast aluminium chassis
- Vented back plate for reduced compression
- Weather-proof coated cone paper

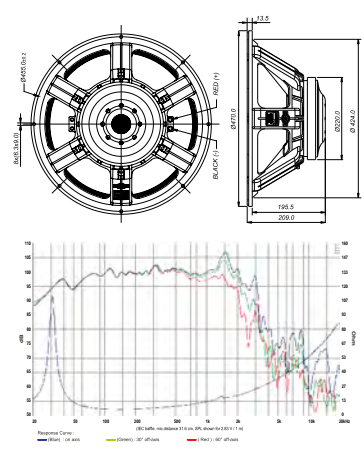
Impedance	8Ω (Re 5.6Ω)
Fs	28Hz
Sens.	99dB
Power	500W AES
Qms	13.29
Qes	0.47
Qts	0.45
Vas	371.5L
Code	BIANCO-18SW500



## SB AUDIENCE ROSSO 18" SUBWOOFER

- Proprietary cone paper material with silk cotton tree
- 4" fibre glass voice coil former with APC (Advanced Polymer Coating)
- Ribbon voice coil wire for high efficiency
- Cast aluminium chassis
- Vented back plate for reduced compression
- Triple roll surround for extended excursion

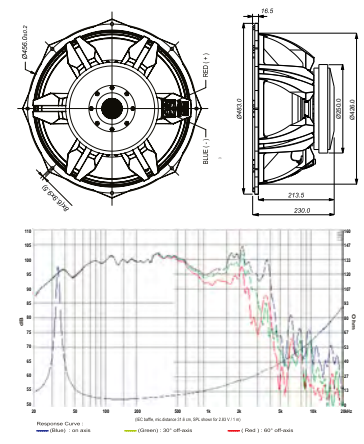
Impedance	8Ω (Re 5.0Ω)
Fs	31Hz
Sens.	99dB
Power	650W AES
Qms	8.56
Qes	0.39
Qts	0.38
Vas	327.2L
Code	ROSSO-18SW650



## SB AUDIENCE ROSSO 18" SUBWOOFER

- Proprietary cone paper material with silk cotton tree
- Minimum damping fibre glass voice coil former
- 4.5" voice coil with APC (Advanced Polymer Coating)
- Ribbon voice coil wire for high efficiency
- Cast aluminium chassis
- Vented back plate for reduced compression

Impedance	8Ω (Re 5.2Ω)
Fs	34Hz
Sens.	99dB
Power	750W AES
Qms	10.33
Qes	0.43
Qts	0.41
Vas	229.5L
Code	ROSSO-18SW750



## SB AUDIENCE ROSSO 18" SUBWOOFER

- Proprietary cone paper material with silk cotton tree
- Minimum damping fibre glass voice coil former
- 4" voice coil with APC (Advanced Polymer Coating)
- Ribbon voice coil wire for high efficiency
- Adding cooling device on yoke for better heat transfer
- Vented back plate for reduced compression
- Cast aluminium chassis

Impedance	8Ω (Re 5.2Ω)
Fs	33Hz
Sens.	99dB
Power	800W AES
Qms	9.8
Qes	0.5
Qts	0.48
Vas	282L
Code	ROSSO-18SW800

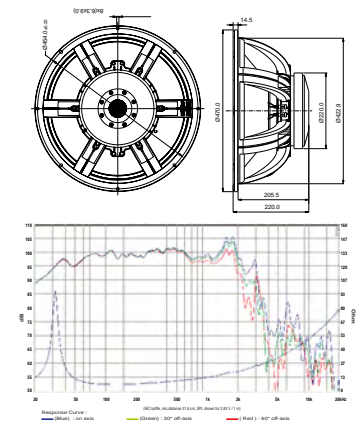




Figure 1 consists of three parts: (a) Top view of the antenna structure, showing a circular design with concentric rings and radial slots. Dimensions include 46.5 mm for the outer radius, 218.7 mm for the inner radius, and 235.2 mm for the total width. (b) Side view of the antenna structure, showing the profile and dimensions: 46.5 mm height, 218.7 mm width, and 235.2 mm width. (c) Measured and simulated  $S_{11}$  coefficient vs. frequency (GHz) from 0 to 18 GHz. The plot shows a resonance dip around 12 GHz and a sharp drop-off above 14 GHz.

Figure 1 consists of three parts: (a) Top view of the DMR showing the 160° sector and 160° beam. (b) Side view of the DMR showing the 160° sector and 160° beam. (c) Measured and simulated radiation patterns for the DMR at 2.45 GHz. The radiation patterns show the main beam and side lobes, with the measured results (solid lines) and simulated results (dashed lines) showing good agreement.



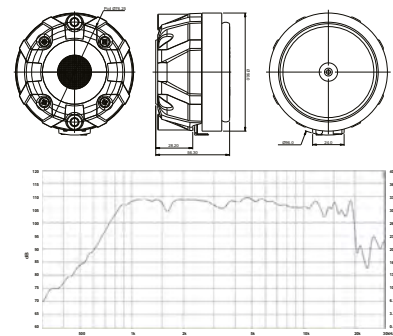
## SB Audience Compression Drivers

### SB AUDIENCE 1" COMPRESSION DRIVER

#### 25MM VC WITH POLYETHERIMIDE DIAPHRAGM

- Extremely light weight PEI diaphragm
- Smooth response with airy detailed highs
- High sensitivity and compact design

Impedance	8Ω
Freq.	1000-20000Hz
Power	20W AES
Coil	25mm
Depth	57mm
Code	BIANCO-25CD-P

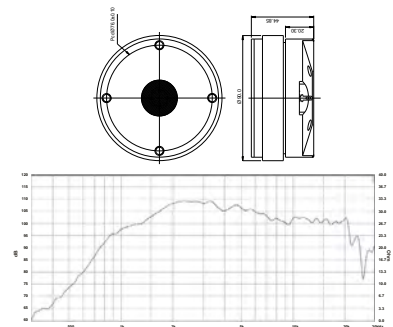


### SB AUDIENCE 1" COMPRESSION DRIVER

#### 34MM VC WITH POLYETHER ETHER KETONE (PEEK) DIAPHRAGM

- PEEK diaphragm
- Extended upper frequency response
- Smooth yet detailed and dynamic
- Advanced voice coil with Flat Copper Clad Aluminium Wire

Impedance	8Ω
Freq.	1000-20000Hz
Power	30W AES
Coil	34mm
Depth	44.85mm
Code	BIANCO-34CD-PK

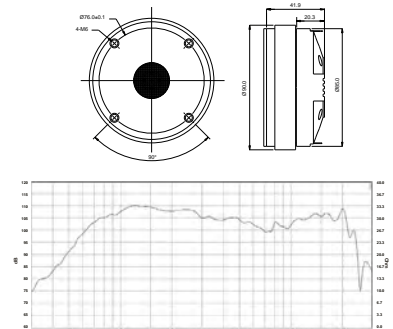


### SB AUDIENCE 1" COMPRESSION DRIVER

#### 34MM VC WITH TITANIUM DIAPHRAGM

- Titanium diaphragm
- Extended upper frequency response
- Detailed and dynamic
- Advanced voice coil with Flat Copper Clad Aluminium Wire

Impedance	8Ω
Freq.	700-20000Hz
Power	30W AES
Coil	34mm
Depth	44mm
Code	BIANCO-34CD-T



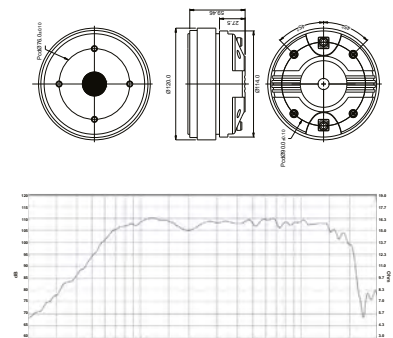
### SB AUDIENCE 1" COMPRESSION DRIVER

#### 44MM VC WITH KAPTON DIAPHRAGM

- Kapton diaphragm
- Detailed and smooth character
- High SPL
- Extremely light weight diaphragm

- Push Terminal for easy installation

Impedance	8Ω
Freq.	700-20000Hz
Power	50W AES
Coil	44mm
Depth	62mm
Code	BIANCO-44CD-K

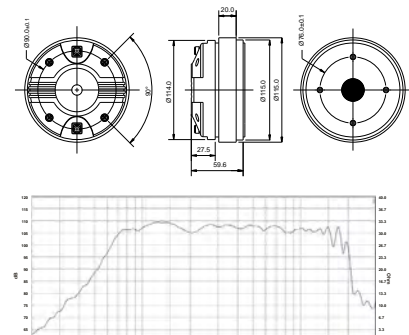


### SB AUDIENCE 1" COMPRESSION DRIVER

#### 44MM VC WITH POLYETHER ETHER KETONE (PEEK) DIAPHRAGM

- PEEK diaphragm
- Excellent frequency response
- Smooth yet detailed and dynamic character
- Extended upper frequency response

Impedance	8Ω
Freq.	700-20000Hz
Power	50W AES
Coil	44mm
Depth	62mm
Code	BIANCO-44CD-PK

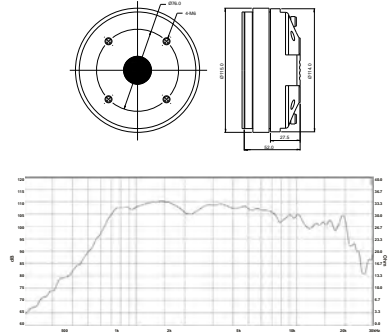


## SB AUDIENCE 1" COMPRESSION DRIVER

### 44MM VC WITH TITANIUM DIAPHRAGM

- Titanium diaphragm
- Detailed and dynamic
- High SPL
- Advanced voice coil with flat copper clad aluminium wire

Impedance	8Ω
Freq.	700-20000Hz
Power	40W AES
Coil	44mm
Depth	54mm
Code	BIANCO-44CD-T

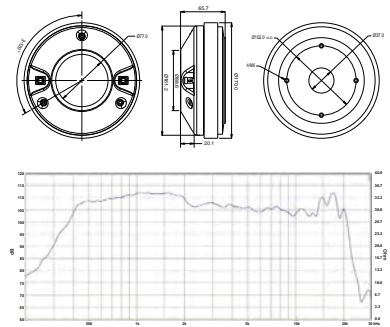


## SB AUDIENCE 1.4" COMPRESSION DRIVER

### 75MM VC WITH TITANIUM DIAPHRAGM

- Titanium composite diaphragm with PEEK surround
- Extended lower frequency range
- High SPL and power handling
- Crisp sound

Impedance	8Ω
Freq.	500-22000Hz
Power	100W AES
Coil	75mm
Depth	65mm
Code	BIANCO-75CD-T

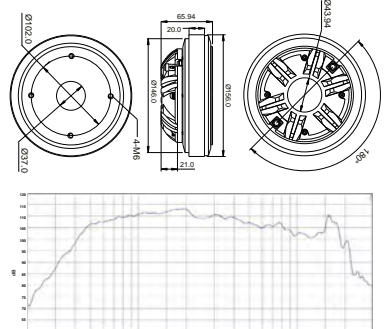


## SB AUDIENCE 1.4" COMPRESSION DRIVER

### 65MM VC WITH FERRITE MAGNET

- Titanium diaphragm
- Copper cap for reduced distortion and extended HF response
- Extended upper frequency response
- Advanced ferrite motor assembly

Impedance	8Ω
Freq.	500-20000Hz
Power	70W AES
Coil	65mm
Depth	66mm
Code	ROSSO-65CD-T

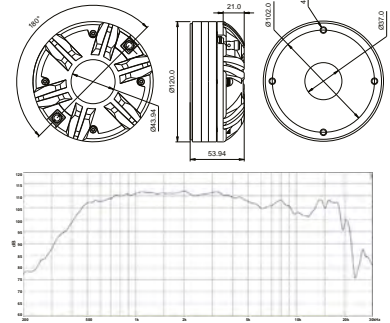


## SB AUDIENCE 1.4" COMPRESSION DRIVER

### 65MM VC WITH NEODYMIUM MAGNET

- Titanium diaphragm
- Neodymium motor assembly
- Copper cap for reduced distortion and extended HF response
- Smooth yet detailed and dynamic character

Impedance	8Ω
Freq.	500-20000Hz
Power	70W AES
Coil	65mm
Depth	54mm
Code	ROSSO-65CDN-T



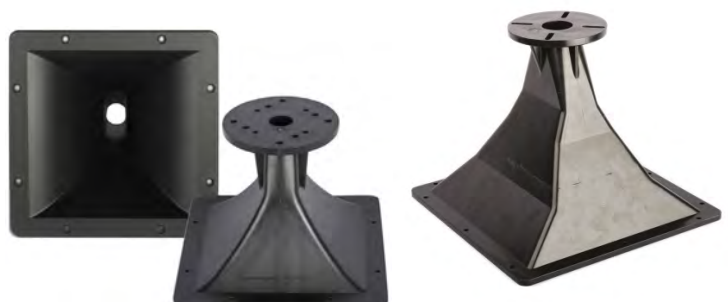
## SB AUDIENCE HORN WAVEGUIDES

Horn body with 1" or 1.4" throat diameter.  
Made with molded plastic. Requires driver.

Dimensions	Diam.	Code
225mm x 155mm	1"	HORN-H225

Dimensions	Diam.	Code
250mm x 131mm	1"	HORN-H250

Dimensions	Diam.	Code
280mm x 230mm	1.4"	HORN-H280



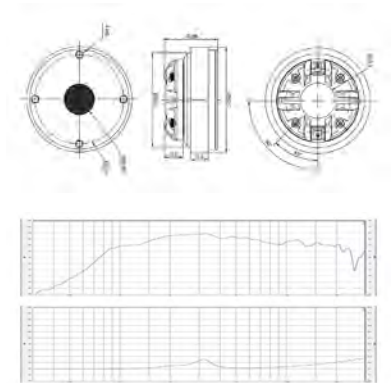


## SB AUDIENCE 1" COMPRESSION DRIVER

### 34MM VC WITH PEEK DIAPHRAGM & FERRITE MAGNET

- PEEK diaphragm
- Optimised cast aluminium rear chamber with damping
- Wide useful bandwidth
- Smooth frequency and impedance response
- Advanced voice coil with flat copper clad aluminium wire

Impedance	8Ω
Freq.	1000-20000Hz
Power	30W AES
Coil	34mm
Depth	46mm
Code	ROSSO-34CD-PK

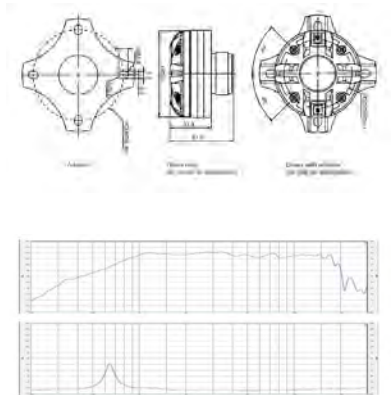


## SB AUDIENCE 1" COMPRESSION DRIVER

### 34MM VC WITH PEEK DIAPHRAGM & NEODYMIUM MAGNET

- PEEK diaphragm
- Neodymium motor assembly
- Optimised cast aluminium rear chamber with damping
- High sensitivity
- Wide useful bandwidth
- Smooth frequency and impedance response
- Screw on or bolt on with included adaptor
- Advanced voice coil with flat copper clad aluminium wire

Impedance	8Ω
Freq.	1000-20000Hz
Power	30W AES
Coil	34mm
Depth	53.86mm
Code	ROSSO-34CDN-PK

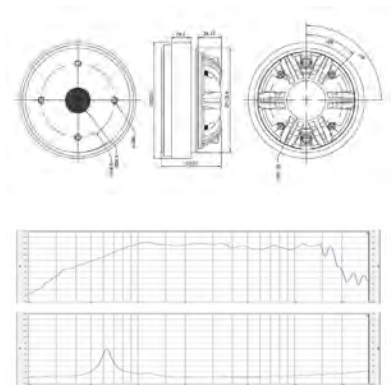


## SB AUDIENCE 1" COMPRESSION DRIVER

### 44.3MM VC WITH PEEK DIAPHRAGM & FERRITE MAGNET

- PEEK PolyEther Ether Ketone diaphragm
- Optimised cast aluminium rear chamber with damping
- Wide useful bandwidth
- Smooth frequency and impedance response
- Advanced voice coil with flat copper clad aluminium wire

Impedance	8Ω
Freq.	700-20000Hz
Power	60W AES
Coil	44.3mm
Depth	62mm
Code	ROSSO-44CD-PK

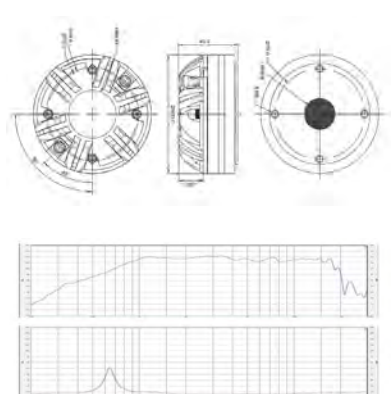


## SB AUDIENCE 1" COMPRESSION DRIVER

### 44.3MM VC WITH PEEK DIAPHRAGM & NEODYMIUM MAGNET

- Polyether Ether Ketone (PEEK) diaphragm
- Neodymium motor assembly
- Optimised cast aluminium rear chamber with damping
- High sensitivity 104dB/1m
- Wide useful bandwidth
- Smooth frequency and impedance response
- Advanced voice coil with flat copper clad aluminium wire

Impedance	8Ω
Freq.	700-20000Hz
Power	60W AES
Coil	44.3mm
Depth	49.9mm
Code	ROSSO-44CDN-PK



## □ Open Baffle Project Driver

### INTRODUCING SB AUDIENCE

- With well over 35 years of experience in development and manufacturing of solutions for professional OEM drivers, the time is here to bring out an exclusive PRO audio brand to the world market.
- SB Audience is spawned from the heavyweight manufacturing of SB Acoustics and has serviced well known brands in the PRO audio industry for decades with in house engineering and manufacturing.
- There are three categories within our standard product range: Bianco, achieves good performance at the most reasonable cost. Rosso, aims at high performance at an attractive price, and Nero is our higher performance line still achieving exceptional price performance ratio.

## AUDIENCE

### OPEN BAFFLE SPEAKER DESIGN & TWO NEW SB AUDIENCE WOOFERS [EDITORIAL]

#### INTRODUCTION TO THE NEW BIANCO-150B350 & BIANCO-120B150 WOOFERS OPTIMISED FOR OPEN BAFFLE DESIGNS

Open baffle loudspeakers are popular for good reason. They can be fitted with large low frequency drivers and they sound “real,” in part because open baffles play with room reflections and sound good even off-axis. A big concern though, is control over the bass response, where the size of the baffle, as well as the choice of the bass drivers are critical. And that is why the engineering team at SB Audience decided to launch new woofers designed for enthusiasts of open baffle applications. Not everyone can accommodate big speakers for music enjoyment at home. But when that’s possible and space allows, dipoles and open baffle loudspeakers are an ideal project for DIY speaker builders and music enthusiasts. They are relatively simple to build, they look impressive, and the overall investment is largely rewarding. Particularly with open baffles, when those speakers are allowed to play in a room with suitable dimensions, where they can sound as loud and dynamic as an actual live concert. As a company with large experience in speaker builder circles and high-end audio applications, SB Acoustics is now building an expanded range of professional transducers under its new brand, SB Audience. And its engineering team, decided to design two large woofers optimized specifically for enthusiasts of open baffles.

The new Bianco 120B150 12” and the 15” Bianco 150B350 woofers, both part of the “good performance at the most reasonable cost” catalog from SB Audience, use great-looking paper cone formulations that are also coated to maintain stable properties with temperature and humidity variations. Construction refinements include elegant six-spoke stamped steel baskets that are designed to be seen, and connections using long-life silver lead wires. SB Audience clearly labels the new woofers as “specifically developed for open baffle applications” based on its high total Q (Qts) parameters, suitable for free-air applications.



First off is the 12” Bianco-120B150 woofer with a generous 2.4” voice coil on a fiber glass former, powerful ferrite magnet motor, specified with a high excursion of 18mm, and with a Total Q of 0.63, making it a good choice woofer for open baffle designs. The 120B150 uses a proprietary cone paper material, combining silk cotton tree and manila pulp, which is then coated with a weatherproof formula.



New Full-Range 8”  
SB20FRPC30-8

Also designed for open baffle applications, but offering an impressive Qts of 0.7 is the new 15” Bianco-150B350 woofer, certainly a great choice for users looking for the most powerful bass in those designs. With a high power handling of 350W (AES) and an excursion of 25mm (11.02 Xmax), the 150B350 was specified far above average. It also features a proprietary cone paper material made in-house by SBA, ferrite magnet system with 2.5” voice coil on a fibre glass former, with a vented back plate for reduced compression. As SB Audience characterizes, “the sound is punchy, detailed and dynamic in a way not usually encountered with open-baffle woofers.” Also worthy of note for speaker builders is the fact that both woofer datasheets include detailed measurements of overall, bolt circle, and baffle cutout diameters, as well as mounting depth and flange and gasket thickness.