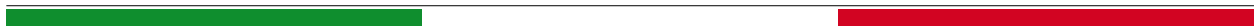




SICA))
loudspeakers ®

CATALOGUE





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The Marche region caresses you with sounds, colours, scents and genuine tastes. A sweet vibrant energy that springs from the delicate melange of the green hills, that Giacomo Leopardi loved so dearly and from the Adriatic Sea, where the ancient myth of the Argonauts docked three thousand years ago. Forty years ago, SICA was born and raised in this region, cradle of so many Italian excellences, where the people are open, friendly, curious and determined. The sounds of history and the area's radicated culture are the fil rouge for this dynamic company, where young professionals work

every day with passion and motivation in an informal environment. The universal notes of Gioacchino Rossini, Giovanni Battista Pergolesi, Gaspare Spontini and Beniamino Gigli, resonate in the Company's DNA. They all are sons of these lands and all polestars of those musical competences that from the late '50s naturally flowed and merged in the counties of Recanati, Osimo and Castelfidardo, turning this area into the "musical district" in Italy.

History & Environment

2



SICA was born from passion as all beautiful things are. In 1979, a group of young men with love and passion for music and hi-fi stroked the loudspeaker market, creating a modern, professional, dynamic and flexible industrial enterprise, with constant expansion either from the manufacturing and the commercial side.

Custom designed and engineered semi-automatic manufacturing lines merge precision and quality with the typical creativity of the "made in Italy". The full customization capability of the products, together with a dynamic proactive approach to the production schedules for the fastest possible lead times, enabled SICA to gain all the international markets, establishing a relevant presence in the five continents.

All this translates in the greatest versatility and cooperation with the Customer, aiming to fulfill even the most complex requirements in the MI and Pro Audio world market: from PA and Sound Reinforcement, to Cinema, Hi-Fi, and Musical Instruments. Experience and professionalism created the opportunity for SICA to obtain the license for the usage and development of the Jensen brand, reissuing those loudspeakers that wrote the history of the electric guitar tone in the last century, and developing new guitar loudspeakers for the next century.

Passion & Quality

Jensen[®]
l o u d s p e a k e r s



SICA's eco-friendly and sustainable philosophy is forward looking and characterizes every productive and manufacturing activity: environmental procedures, compliant to the most stringent international quality standards, strict adherence to the occupational safety regulations and a constant care and attention to the needs of the territory, with specific initiatives for the growth and development of its own community.

Sustainability & Social

DATASHEET TOPICS

The **frequency response** is measured with the loudspeaker mounted on a specified box, whereas the impedance curve is measured in free air.

The **Thiele-Small parameters** are measured with a laser sensor, after a preconditioning test.

The **X-max** value is measured to a Total Harmonic Distortion of 10%.

The **X-var** is the maximum excursion allowed by the loudspeaker, it is stated as the value corresponding to a decay of the Force Factor, or of the Compliance, or both, equal to 50% of the small signal value.

Loudspeakers with **further impedances** than those shown on the catalogue are available upon request.

Due to continuing product improvements, all features are subject to **change without notice**.

Power Handling

The **Rated Power** is measured according to the AES 2-1984 standard, which calls for a pink noise signal with 6dB crest factor and band pass filtering to a decade in the working range of the loudspeaker. After a 2 hour test the loudspeaker did not show any permanent change in characteristics greater than 10%. The RMS power rating is calculated using the minimum electrical impedance value over the operating range of the speaker. The cone speakers are tested in free air, the compression drivers are tested coupled to the recommended horn.

The **Continuous Program Power** is specified as twice the rated power.

The dome tweeter is also declared the **Rated Noise Power**, which is measured according to the IEC60268-5 international standard that calls for a pink noise signal with 6dB crest factor and IEC program filtering to approximate the spectral content of real music. The test duration is 100 hours.

4





Quality Control

5

The **Quality Control Department inspects 100% of the production**. Automatic checks, run through electronics devices, are carried out on all cone speakers, compression drivers and dome tweeters, checking Frequency response, Impedance curve, Resonance frequency, rub & buzz, polarity, THD and Thiele-Small parameters of each speaker.

Materials and Constructive technologies

SICA technicians pay special attention to all innovations in the fields of advanced materials and constructive technologies. This is to improve performance and stability of the loudspeakers throughout their use, even if intensive.

In this context a series of innovations have been adopted, such as aluminium die cast baskets with thin brackets to avoid sound reflections on the rear side of the cone, magnet circuits with an additional magnet mounted on the central pole to make the flux fully symmetric in the magnetic gap and to improve the dynamic performance of the voice

coil, magnet circuits with optimized ventilation to reduce the power compression, improved voice coil ventilation and sandwich windings to increase the power handling, spiders with asymmetrical progressive waves realized with DCS (double cross spider) technique to allow for linear elongation up to extreme values, cloth and rubber suspensions with DAR (double asymmetric rolls) technology for the perfect balance of the compliance in both displacement directions.

Further innovations are under development, to be applied in future projects.



LOW

Frequency



21 S 4 PL

21" | 2400 W

Code Z008424

Subwoofer

4" voice coil Fiberglass former
 Double Cross Spider with Progressive Waves (DCSP)
 Triple Roll Cloth surround (TR)
 Autoclave Waterproof Cone Treatment (AWpT)
 Neodymium Magnet Circuit
 Ventilated Magnet to reduce Power Compression (VM)
 98.8 dB sensitivity
 Frequency Range 35-500 Hz



SICA
 loudspeakers

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MADE IN ITALY

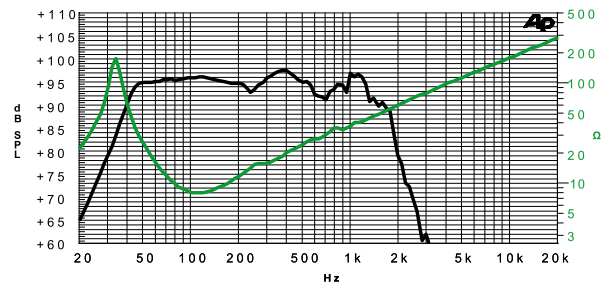


General Specifications

Nominal Diameter	545 mm / 21 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	1200 W		
Continuous Program Power ⁽²⁾	2400 W		
Sensitivity @ 1W/1m ⁽³⁾	98.8 dB		
Voice Coil Diameter	100 mm / 4 in		
Voice Coil Winding Depth	23 mm		
Magnetic Gap Depth	17 mm		
Flux Density	0.89 T		
Magnet Weight	536 g		
Net Weight	10.5 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.7 Ω	Fs	34.6 Hz
Qms	9.95	Qes	0.31
Qts	0.30	Mms	325.0 g
Cms	65 μm/N	Bxl	36.10 Tm
Vas	255.0 l	Sd	1661.9 cm ²
X max ⁽⁵⁾	+/- 5.2 mm	X var ⁽⁶⁾	+/- 10.7 mm
η ₀	3.29%	Le (1KHz)	1.60 mH



Frequency Response on 190 Lt @ 40 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	545 mm
Baffle Cutout Diameter	497 mm
Mounting Holes	8 holes 13x9 on ø 520 mm
Total Depth	249 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

18 K 4 PL

18" | 2400 W

Code Z008402

Subwoofer

- 4" Sandwich voice coil Fiberglass former (SNDW)
- Double Konex Spider with Progressive Waves (DPS)
- Cloth surround with Double Asymmetric Rolls Technology (DAR)
- Autoclave Waterproof Cone Treatment (AWpT)
- Neodymium Magnet Circuit
- Ventilated Magnet to reduce Power Compression (VM)
- 97.8 dB sensitivity
- Frequency Range 35-700 Hz

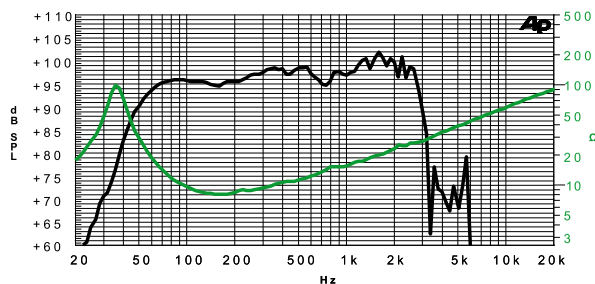


General Specifications

Nominal Diameter	462 mm / 18 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	1200 W		
Continuous Program Power ⁽²⁾	2400 W		
Sensitivity @ 1W/1m ⁽³⁾	97.8 dB		
Voice Coil Diameter	100 mm / 4 in		
Voice Coil Winding Depth	22 mm		
Magnetic Gap Depth	12 mm		
Flux Density	1.21 T		
Magnet Weight	536 g		
Net Weight	8.3 kg		

Thiele & Small Parameters⁽⁴⁾

Re	6.0 Ω	Fs	36.8 Hz
Qms	4.62	Qes	0.35
Qts	0.32	Mms	178.8 g
Cms	105 μm/N	Bxl	26.8 Tm
Vas	201 l	Sd	1164.2 cm ²
X max ⁽⁵⁾	+/- 6.5 mm	X var ⁽⁶⁾	+/- 10.0 mm
η ₀	2.78%	Le (1KHz)	1.60 mH



Frequency Response on 150 Lt @ 45 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	462 mm
Baffle Cutout Diameter	417 mm
Mounting Holes	8 holes 6,5x9 on ø 441 mm
Total Depth	211 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

18 S 4 PL

18" | 2400 W

Code Z008405

Subwoofer

4" Sandwich voice coil Fiberglass former (SNDW)
 Double Cross Spider with Progressive Waves (DCSP)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Autoclave Waterproof Cone Treatment (AWpT)
 Neodymium Magnet Circuit
 Ventilated Magnet to reduce Power Compression (VM)
 97.3 dB sensitivity
 Frequency Range 35-700 Hz



SICA
 loudspeakers

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MADE IN ITALY

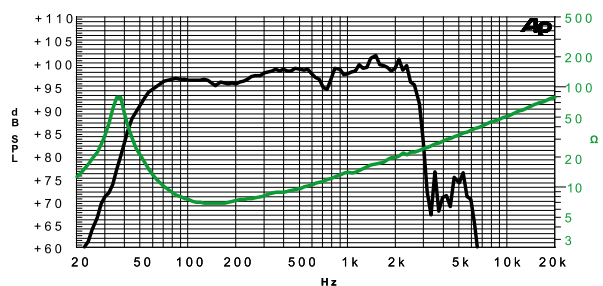


General Specifications

Nominal Diameter	462 mm / 18 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	1200 W		
Continuous Program Power ⁽²⁾	2400 W		
Sensitivity @ 1W/1m ⁽³⁾	97.3 dB		
Voice Coil Diameter	100 mm / 4 in		
Voice Coil Winding Depth	27 mm		
Magnetic Gap Depth	12 mm		
Flux Density	1.21 T		
Magnet Weight	536 g		
Net Weight	8.3 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.2 Ω	Fs	36.2 Hz
Qms	6.56	Qes	0.42
Qts	0.39	Mms	197.0 g
Cms	98 μm/N	Bxl	23.54 Tm
Vas	189.0 l	Sd	1164.2 cm ²
X max ⁽⁵⁾	+/- 8.0 mm	X var ⁽⁶⁾	+/- 10.1 mm
η ₀	2.07%	Le (1KHz)	1.35 mH



Frequency Response on 150 Lt @ 45 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	462 mm
Baffle Cutout Diameter	417 mm
Mounting Holes	8 holes 6,5x9 on ø 441 mm
Total Depth	211 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

18 PF 4

18" | 2400 W

Code Z008394

Subwoofer



- 4" Sandwich voice coil Fiberglass former (SNDW)
- Double Cross Konex Spider with Progressive Waves (DCSP)
- Triple Roll Cloth surround (TR)
- Total Waterproof Cone Treatment (TWpT)
- High Excursion Ferrite Magnet Circuit (HeF)
- Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
- 96.3 dB sensitivity
- Frequency Range 35-700 Hz

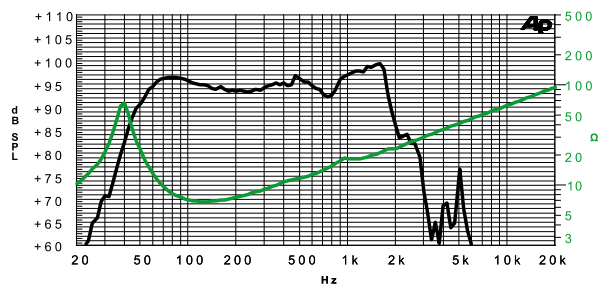


General Specifications

Nominal Diameter	463 mm / 18 in
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾	1200 W
Continuous Program Power ⁽²⁾	2400 W
Sensitivity @ 1W/1m ⁽³⁾	96.3 dB
Voice Coil Diameter	100 mm / 4 in
Voice Coil Winding Depth	27 mm
Magnetic Gap Depth	12 mm
Flux Density	1.05 T
Magnet Weight	3300 g
Net Weight	13.0 kg

Thiele & Small Parameters ⁽⁴⁾

Re	5.2 Ω	Fs	38.0 Hz
Qms	6.46	Qes	0.47
Qts	0.43	Mms	229.2 g
Cms	76 μm/N	Bxl	24.6 Tm
Vas	147.3 l	Sd	1164.2 cm ²
X max ⁽⁵⁾	+/- 8.0 mm	X var ⁽⁶⁾	+/- 10.0 mm
η ₀	1.67%	Le (1KHz)	1.85 mH



Frequency Response on 150 Lt @ 45 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Total Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	462 mm
Baffle Cutout Diameter	417 mm
Mounting Holes	8 holes 6,5x9 on ø 441 mm
Total Depth	209.5 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

18 F 3 CP

18" | 800 W

Code Z008362

Subwoofer

3" voice coil Aluminium former
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Autoclave Waterproof Cone Treatment (AWpT)
 Ferrite Magnet Circuit
 Ventilated Magnet to reduce Power Compression (VM)
 96.9 dB sensitivity
 Frequency Range 30-700 Hz



SICA
 loudspeakers

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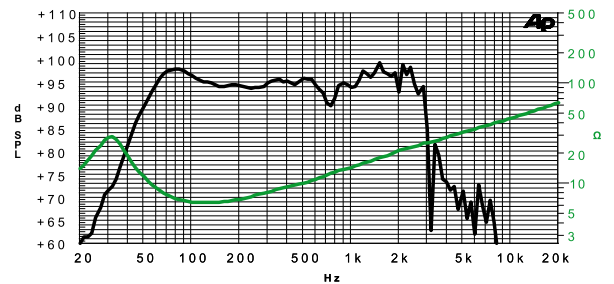


General Specifications

Nominal Diameter	462 mm / 18 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	400 W		
Continuous Program Power ⁽²⁾	800 W		
Sensitivity @ 1W/1m ⁽³⁾	96.9 dB		
Voice Coil Diameter	75 mm / 3 in		
Voice Coil Winding Depth	20 mm		
Magnetic Gap Depth	10 mm		
Flux Density	1.08 T		
Magnet Weight	1800 g		
Net Weight	8.6 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.1 Ω	Fs	30.8 Hz
Qms	3.05	Qes	0.52
Qts	0.45	Mms	155 g
Cms	177 μm/N	Bxl	16.9 Tm
Vas	340.0 l	Sd	1164.2 cm ²
X max ⁽⁵⁾	+/- 6.5 mm	X var ⁽⁶⁾	+/- 10.5 mm
η ₀	1.84%	Le (1KHz)	1.41 mH



Frequency Response on 150 Lt @ 45 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Aluminium
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	462 mm
Baffle Cutout Diameter	417 mm
Mounting Holes	8 holes 6.5x9 on ø 441 mm
Total Depth	196.5 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

15 K 4 PL

Professional

15" | 2400 W

Code Z008339



4" Sandwich voice coil Kapton former (SNDW)
 Double Cross Spider with Progressive Waves (DCSP)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Autoclave Waterproof Cone Treatment (AWpT)
 Neodymium Magnet Circuit with Copper Demodulating Ring (CDR)
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 99.2 dB sensitivity
 Frequency Range 45-2000 Hz

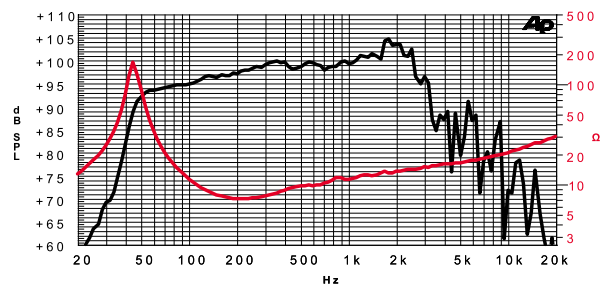


General Specifications

Nominal Diameter	388 mm / 15 in	
Nominal Impedance	8 Ω	
Rated Power AES ⁽¹⁾	1200 W	
Continuous Program Power ⁽²⁾	2400 W	
Sensitivity @ 1W/1m ⁽³⁾	99.2 dB	
Voice Coil Diameter	100 mm / 4 in	
Voice Coil Winding Depth	21 mm	
Magnetic Gap Depth	12 mm	
Flux Density	1.23 T	
Magnet Weight	536 g	
Net Weight	7.0 kg	

Thiele & Small Parameters⁽⁴⁾

Re	5.2 Ω	Fs	45.2 Hz
Qms	13.80	Qes	0.30
Qts	0.29	Mms	118.0 g
Cms	109 μm/N	Bxl	24.20 Tm
Vas	105.0 l	Sd	855.3 cm ²
X max ⁽⁵⁾	+/- 6.5 mm	X var ⁽⁶⁾	+/- 10.5 mm
η ₀	3.27%	Le (1KHz)	0.84 mH



Frequency Response on 90 Lt @ 48 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	388 mm
Baffle Cutout Diameter	355 mm
Mounting Holes	8 holes 6x9 on ø 371 mm
Total Depth	176.8 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

15 F 4 CP

Professional

15" | 1400 W

Code Z008321

4" Sandwich voice coil Kapton former (SNDW)
 Double Cross Spider with Progressive Waves (DCSP)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Autoclave Waterproof Cone Treatment (AWpT)
 Ferrite Magnet Circuit
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 99.1 dB sensitivity
 Frequency Range 40-2000 Hz

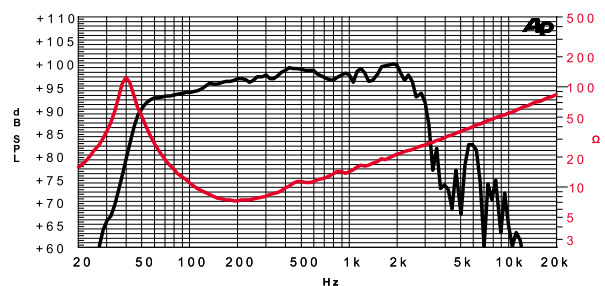


General Specifications

Nominal Diameter	389 mm / 15 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	700 W		
Continuous Program Power ⁽²⁾	1400 W		
Sensitivity @ 1W/1m ⁽³⁾	99.1 dB		
Voice Coil Diameter	100 mm / 4 in		
Voice Coil Winding Depth	21 mm		
Magnetic Gap Depth	10 mm		
Flux Density	1.30 T		
Magnet Weight	3300 g		
Net Weight	12.1 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.1 Ω	Fs	41.0 Hz
Qms	7.42	Qes	0.26
Qts	0.25	Mms	130.0 g
Cms	116 μm/N	Bxl	25.9 Tm
Vas	120.4 l	Sd	855.3 cm ²
X max ⁽⁵⁾	+/- 7.0 mm	X var ⁽⁶⁾	+/- 10.0 mm
η ₀	3.12%	Le (1KHz)	1.48 mH



Frequency Response on 90 Lt @ 48 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	388 mm
Baffle Cutout Diameter	355 mm
Mounting Holes	8 holes 6x9 on ø 371 mm
Total Depth	169 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

15 S 4 PL

15" | 2400 W

Code Z008175

Subwoofer

4" Sandwich voice coil Fiberglass former (SNDW)
 Double Cross Spider with Progressive Waves (DCSP)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Autoclave Waterproof Cone Treatment (AWpT)
 Neodymium Magnet Circuit
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 98.1 dB sensitivity
 Frequency Range 35-2000 Hz

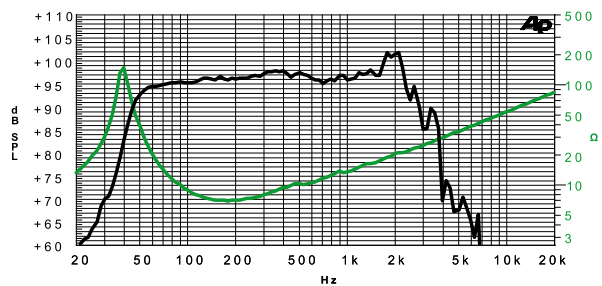


General Specifications

Nominal Diameter	388 mm / 15 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	1200 W		
Continuous Program Power ⁽²⁾	2400 W		
Sensitivity @ 1W/1m ⁽³⁾	98.1 dB		
Voice Coil Diameter	100 mm / 4 in		
Voice Coil Winding Depth	27 mm		
Magnetic Gap Depth	12 mm		
Flux Density	1.21 T		
Magnet Weight	536 g		
Net Weight	7.0 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.1 Ω	Fs	38.0 Hz
Qms	14.5	Qes	0.29
Qts	0.28	Mms	134.1 g
Cms	131 μm/N	Bxl	23.84 Tm
Vas	135.9 l	Sd	855.3 cm ²
X max ⁽⁵⁾	+/- 8.5 mm	X var ⁽⁶⁾	+/- 11.5 mm
η ₀	2.50%	Le (1KHz)	1.38 mH



Frequency Response on 150 Lt @ 45 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	388 mm
Baffle Cutout Diameter	355 mm
Mounting Holes	8 holes 6x9 on ø 371 mm
Total Depth	176.8 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

15 PFS 4

15" | 2400 W

Code Z008318

Subwoofer

4" Sandwich voice coil Fiberglass former (SNDW)
 Double Cross Spider (DCS)
 Triple Roll Cloth surround (TR)
 Total Waterproof Cone Treatment (TWpT)
 High Excursion Ferrite Magnet Circuit (HeF)
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 95.8 dB sensitivity
 Frequency Range 35-2000 Hz

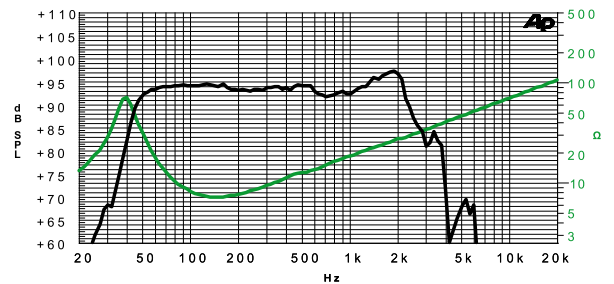


General Specifications

Nominal Diameter	389 mm / 15 in	
Nominal Impedance	8 Ω	
Rated Power AES ⁽¹⁾	1200 W	
Continuous Program Power ⁽²⁾	2400 W	
Sensitivity @ 1W/1m ⁽³⁾	95.8 dB	
Voice Coil Diameter	100 mm / 4 in	
Voice Coil Winding Depth	27 mm	
Magnetic Gap Depth	12 mm	
Flux Density	1.12 T	
Magnet Weight	3300 g	
Net Weight	12.3 kg	

Thiele & Small Parameters ⁽⁴⁾

Re	5.3 Ω	Fs	39.0 Hz
Qms	4.87	Qes	0.37
Qts	0.34	Mms	166.5 g
Cms	100 μm/N	Bxl	24.24 Tm
Vas	103.9 l	Sd	855.3 cm ²
X max ⁽⁵⁾	+/- 9.0 mm	X var ⁽⁶⁾	+/- 9.0 mm
η ₀	1.61%	Le (1KHz)	1.80 mH



Frequency Response on 150 Lt @ 45 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Total Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	388 mm
Baffle Cutout Diameter	355 mm
Mounting Holes	8 holes 6x9 on ø371 mm
Total Depth	175 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

15 K 3 PL

15" | 800 W

Code Z008331

Professional

3" Sandwich voice coil Kapton former (SNDW)
 Konex Spider with Progressive Waves (PS)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Autoclave Waterproof Cone Treatment (AWpT)
 Balanced Neodymium Magnet Circuit with Copper Demodulating Ring (CDR)
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 99.7 dB sensitivity
 Frequency Range 40-2000 Hz

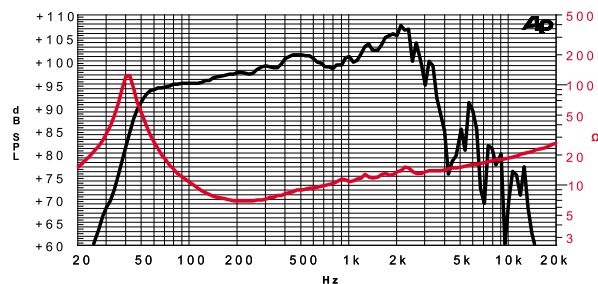


General Specifications

Nominal Diameter	388 mm / 15 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	400 W		
Continuous Program Power ⁽²⁾	800 W		
Sensitivity @ 1W/1m ⁽³⁾	99.7 dB		
Voice Coil Diameter	75 mm / 3 in		
Voice Coil Winding Depth	20 mm		
Magnetic Gap Depth	10 mm		
Flux Density	1.42 T		
Magnet Weight	560 g		
Net Weight	4.0 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.2 Ω	Fs	40.0 Hz
Qms	8.31	Qes	0.28
Qts	0.27	Mms	99.0 g
Cms	160 μm/N	Bxl	21.40 Tm
Vas	166.1 l	Sd	855.3 cm ²
X max ⁽⁵⁾	+/- 6.5 mm	X var ⁽⁶⁾	+/- 11.0 mm
η ₀	3.66%	Le (1KHz)	0.60 mH



Frequency Response on 90 Lt @ 48 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	388 mm
Baffle Cutout Diameter	355 mm
Mounting Holes	4 holes 6x9 on ø 371 mm
Total Depth	169 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

15 Fe 3 CP

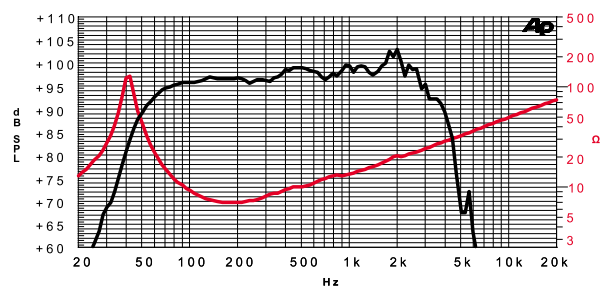
Professional

15" | 800 W

Code Z008308



- 3" Sandwich voice coil Fiberglass former (SNDW)
- Konex Spider
- Waterproof Cone Treatment (WpT)
- Ferrite Magnet Circuit
- Ventilated Magnet to reduce Power Compression (VM)
- 99.4 dB sensitivity
- Frequency Range 40-2000 Hz



Frequency Response on 90 Lt @ 48 Hz Vented Box @ 1W, 1m. Free Air Impedance.

General Specifications

Nominal Diameter	389 mm / 15 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	400 W		
Continuous Program Power ⁽²⁾	800 W		
Sensitivity @ 1W/1m ⁽³⁾	99.4 dB		
Voice Coil Diameter	75 mm / 3 in		
Voice Coil Winding Depth	17 mm		
Magnetic Gap Depth	10 mm		
Flux Density	1.18 T		
Magnet Weight	1800 g		
Net Weight	8.1 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.2 Ω	Fs	40.2 Hz
Qms	9.52	Qes	0.34
Qts	0.33	Mms	91.0 g
Cms	164 μm/N	Bxl	19.10 Tm
Vas	170.4 l	Sd	855.3 cm ²
X max ⁽⁵⁾	+/- 5.5 mm	X var ⁽⁶⁾	+/- 10.0 mm
η ₀	3.42%	Le (1KHz)	1.22 mH

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	388 mm
Baffle Cutout Diameter	355 mm
Mounting Holes	8 holes 6x9 on ø 371 mm
Total Depth	161 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

15 S 3 PL

15" | 800 W

Code Z008173

Subwoofer



- 3" Sandwich voice coil Fiberglass former (SNDW)
- Konex Spider with Progressive Waves (PS)
- Cloth surround with Double Asymmetric Rolls Technology (DAR)
- Autoclave Waterproof Cone Treatment (AWpT)
- High Excursion Neodymium Magnet Circuit (HeN)
- Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
- 97.2 dB sensitivity
- Frequency Range 35-2000 Hz

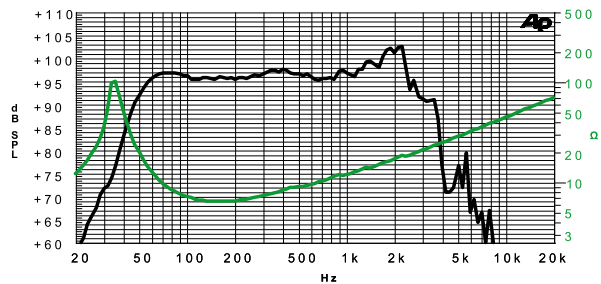


General Specifications

Nominal Diameter	388 mm / 15 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	400 W		
Continuous Program Power ⁽²⁾	800 W		
Sensitivity @ 1W/1m ⁽³⁾	97.2 dB		
Voice Coil Diameter	75 mm / 3 in		
Voice Coil Winding Depth	24 mm		
Magnetic Gap Depth	10 mm		
Flux Density	1.22 T		
Magnet Weight	360 g		
Net Weight	3.9 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.2 Ω	Fs	33.0 Hz
Qms	14.10	Qes	0.39
Qts	0.38	Mms	105.0 g
Cms	221 μm/N	Bxl	17.10 Tm
Vas	230.0 l	Sd	855.3 cm ²
X max ⁽⁵⁾	+/- 8.0 mm	X var ⁽⁶⁾	+/- 11.1 mm
η ₀	2.06%	Le (1KHz)	1.15 mH



Frequency Response on 150 Lt @ 45 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	388 mm
Baffle Cutout Diameter	355 mm
Mounting Holes	8 holes 6x9 on ø 371 mm
Total Depth	161 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

15 PFS 3

15" | 1000 W

Code Z008314

Subwoofer

3" Sandwich voice coil Fiberglass former (SNDW)
 Konex Spider with Progressive Waves (PS)
 Triple Roll Cloth surround (TR)
 Total Waterproof Cone Treatment (TWpT)
 Balanced Ferrite Magnet Circuit (BMF)
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 95.9 dB sensitivity
 Frequency Range 35-2000 Hz

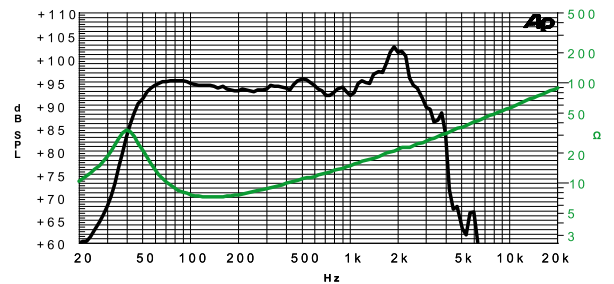


General Specifications

Nominal Diameter	389 mm / 15 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	500 W		
Continuous Program Power ⁽²⁾	1000 W		
Sensitivity @ 1W/1m ⁽³⁾	95.9 dB		
Voice Coil Diameter	75 mm / 3 in		
Voice Coil Winding Depth	24 mm		
Magnetic Gap Depth	10 mm		
Flux Density	1.08 T		
Magnet Weight	1790 g		
Net Weight	7.7 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.1 Ω	Fs	39.0 Hz
Qms	3.24	Qes	0.52
Qts	0.45	Mms	127.7 g
Cms	130 μm/N	Bxl	17.50 Tm
Vas	135.5 l	Sd	855.3 cm ²
X max ⁽⁵⁾	+/- 7.0 mm	X var ⁽⁶⁾	+/- 9.0 mm
η ₀	1.49%	Le (1KHz)	1.36 mH



Frequency Response on 150 Lt @ 45 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Total Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	388 mm
Baffle Cutout Diameter	355 mm
Mounting Holes	8 holes 6x9 on ø 371 mm
Total Depth	163 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

12 K 4 PL

12" | 2000 W

Code Z008020

Professional

- 4" Sandwich voice coil Kapton former (SNDW)
- Double Cross Spider with Progressive Waves (DCSP)
- Cloth surround with Double Asymmetric Rolls Technology (DAR)
- Autoclave Waterproof Cone Treatment (AWpT)
- Neodymium Magnet Circuit with Copper Demodulating Ring (CDR)
- Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
- 97.1 dB sensitivity
- Frequency Range 50-3000 Hz



SICA
loudspeakers

21

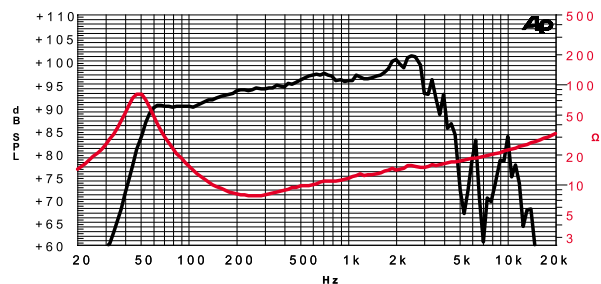


General Specifications

Nominal Diameter	321 mm / 12 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	1000 W		
Continuous Program Power ⁽²⁾	2000 W		
Sensitivity @ 1W/1m ⁽³⁾	97.1 dB		
Voice Coil Diameter	100 mm / 4 in		
Voice Coil Winding Depth	21 mm		
Magnetic Gap Depth	12 mm		
Flux Density	1.10 T		
Magnet Weight	536 g		
Net Weight	6.6 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.2 Ω	Fs	48.0 Hz
Qms	4.41	Qes	0.25
Qts	0.24	Mms	93.6 g
Cms	115 μm/N	Bxl	24.70 Tm
Vas	46.3 l	Sd	530.9 cm ²
X max ⁽⁵⁾	+/- 7.0 mm	X var ⁽⁶⁾	+/- 9.0 mm
η ₀	1.99%	Le (1KHz)	0.74 mH



Frequency Response on 45 Lt @ 55 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	320 mm
Baffle Cutout Diameter	284 mm
Mounting Holes	8 holes 6x9 on ø 301 mm
Total Depth	154.8 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

MADE IN ITALY

12 F 4 CP

Professional

12" | 1400 W

Code Z008019

4" sandwich voice coil Kapton former (SNDW)
 Double Cross Spider with Progressive Waves (DCSP)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Autoclave Waterproof Cone Treatment (AWpT)
 Ferrite Magnet Circuit
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 97.3 dB sensitivity
 Frequency Range 48-3000 Hz

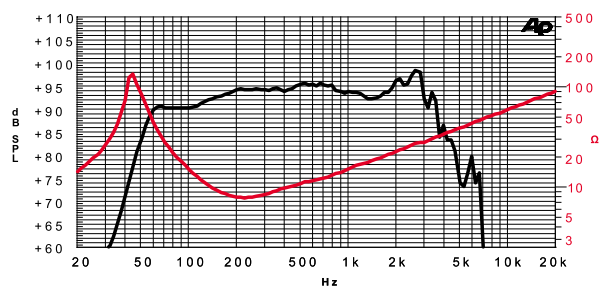


General Specifications

Nominal Diameter	321 mm / 12 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	700 W		
Continuous Program Power ⁽²⁾	1400 W		
Sensitivity @ 1W/1m ⁽³⁾	97.3 dB		
Voice Coil Diameter	100 mm / 4 in		
Voice Coil Winding Depth	21 mm		
Magnetic Gap Depth	10 mm		
Flux Density	1.31 T		
Magnet Weight	3300 g		
Net Weight	11.7 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.2 Ω	Fs	46.0 Hz
Qms	7.50	Qes	0.22
Qts	0.22	Mms	96.0 g
Cms	125 μm/N	Bxl	25.80 Tm
Vas	49.9 l	Sd	530.9 cm ²
X max ⁽⁵⁾	+/- 5.5 mm	X var ⁽⁶⁾	+/- 9.0 mm
η ₀	2.14%	Le (1KHz)	1.58 mH



Frequency Response on 45 Lt @ 55 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	320 mm
Baffle Cutout Diameter	284 mm
Mounting Holes	8 holes 6x9 on ø 301 mm
Total Depth	147.3 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

12 S 4 PL

12" | 2000 W

Code Z007951

Subwoofer

- 4" Sandwich voice coil Fiberglass former (SNDW)
- Double Cross Spider with Progressive Waves (DCSP)
- Cloth surround with Double Asymmetric Rolls Technology (DAR)
- Autoclave Waterproof Cone Treatment (AWpT)
- Neodymium Magnet Circuit
- Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
- 95.5 dB sensitivity
- Frequency Range 40-2000 Hz

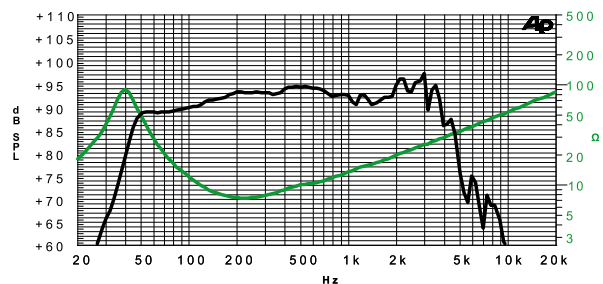


General Specifications

Nominal Diameter	321 mm / 12 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	1000 W		
Continuous Program Power ⁽²⁾	2000 W		
Sensitivity @ 1W/1m ⁽³⁾	95.5 dB		
Voice Coil Diameter	100 mm / 4 in		
Voice Coil Winding Depth	27 mm		
Magnetic Gap Depth	12 mm		
Flux Density	1.21 T		
Magnet Weight	536 g		
Net Weight	6.6 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.2 Ω	Fs	40.4 Hz
Qms	4.50	Qes	0.26
Qts	0.25	Mms	109.0 g
Cms	142 μm/N	Bxl	23.50 Tm
Vas	57.0 l	Sd	530.9 cm ²
X max ⁽⁵⁾	+/- 7.5 mm	X var ⁽⁶⁾	+/- 9.0 mm
η ₀	1.39%	Le (1KHz)	1.15 mH



Frequency Response on 60 Lt @ 45 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	320 mm
Baffle Cutout Diameter	284 mm
Mounting Holes	8 holes 6x9 on ø 301 mm
Total Depth	154.8 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

12 PFS 4

12" | 2000 W

Code Z007954

Subwoofer

4" Sandwich voice coil Fiberglass former (SNDW)
 Double Cross Konex Spider with Progressive Waves (DCSP)
 Triple Roll Cloth surround (TR)
 Total Waterproof Cone Treatment (TWpT)
 High Excursion Ferrite Magnet Circuit (HeF)
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 94.8 dB sensitivity
 Frequency Range 35-2000 Hz

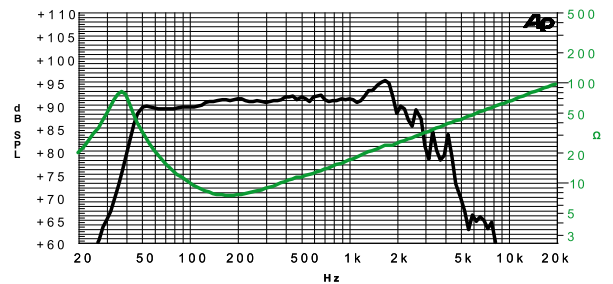


General Specifications

Nominal Diameter	321 mm / 12 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	1000 W		
Continuous Program Power ⁽²⁾	2000 W		
Sensitivity @ 1W/1m ⁽³⁾	94.8 dB		
Voice Coil Diameter	100 mm / 4 in		
Voice Coil Winding Depth	27 mm		
Magnetic Gap Depth	12 mm		
Flux Density	1.08 T		
Magnet Weight	3300 g		
Net Weight	11.5 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.2 Ω	Fs	39.0 Hz
Qms	4.60	Qes	0.27
Qts	0.26	Mms	120.0 g
Cms	139 μm/N	Bxl	23.88 Tm
Vas	55.6 l	Sd	530.9 cm ²
X max ⁽⁵⁾	+/- 9.0 mm	X var ⁽⁶⁾	+/- 10.0 mm
η ₀	1.18%	Le (1KHz)	1.76 mH



Frequency Response on 60 Lt @ 45 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Total Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	320 mm
Baffle Cutout Diameter	284 mm
Mounting Holes	8 holes 6x9 on ø 301 mm
Total Depth	153.3 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

12 N 3 PL

Professional

12" | 800 W

Code Z007983

3" Sandwich voice coil Fiberglass former and Aluminium Winding (SNDW)
 Konex Spider with Progressive Waves (PS)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Waterproof Cone Treatment (WpT)
 Neodymium Magnet Circuit
 Ventilated Voice Coil to reduce Power Compression (VVC)
 98.5 dB sensitivity
 Frequency Range 45-3000 Hz

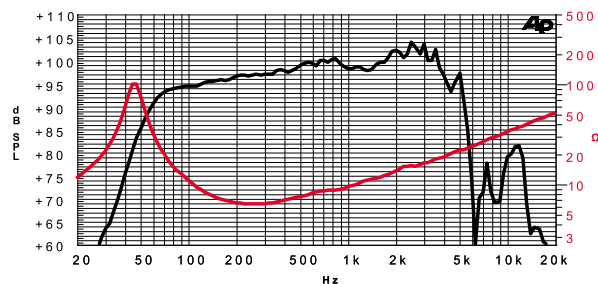


General Specifications

Nominal Diameter	320 mm / 12 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	400 W		
Continuous Program Power ⁽²⁾	800 W		
Sensitivity @ 1W/1m ⁽³⁾	98.5 dB		
Voice Coil Diameter	75 mm / 3 in		
Voice Coil Winding Depth	21 mm		
Magnetic Gap Depth	10 mm		
Flux Density	1.18 T		
Magnet Weight	360 g		
Net Weight	3.5 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.0 Ω	Fs	46.0 Hz
Qms	7.50	Qes	0.31
Qts	0.30	Mms	56.5 g
Cms	220 μm/N	Bxl	16.00 Tm
Vas	87.9 l	Sd	530.9 cm ²
X max ⁽⁵⁾	+/- 5.5 mm	X var ⁽⁶⁾	+/- 9.0 mm
η ₀	2.68%	Le (1KHz)	0.80 mH



Frequency Response on 45 Lt @ 55 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	320 mm
Baffle Cutout Diameter	284 mm
Mounting Holes	8 holes 6x9 on ø 301 mm
Total Depth	135.4 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

12 PF 3

Professional

12" | 1000 W

Code Z007845

3" Sandwich voice coil Fiberglass former and Aluminium Winding (SNDW)
 Konex Spider with Progressive Waves (PS)
 Triple Roll Cloth surround (TR)
 Total Waterproof Cone Treatment (TWpT)
 Balanced Ferrite Magnet Circuit with Aluminium Demodulating Ring (BMF)
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 96.4 dB sensitivity
 Frequency Range 45-3000 Hz

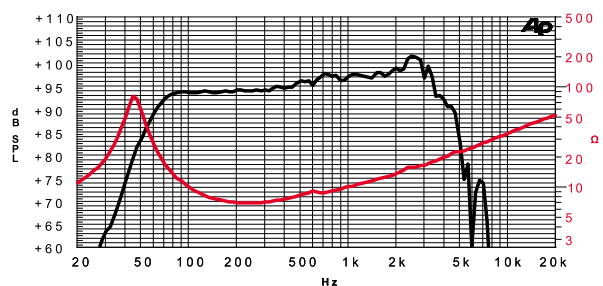


General Specifications

Nominal Diameter	321 mm / 12 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	500 W		
Continuous Program Power ⁽²⁾	1000 W		
Sensitivity @ 1W/1m ⁽³⁾	96.4 dB		
Voice Coil Diameter	75 mm / 3 in		
Voice Coil Winding Depth	17 mm		
Magnetic Gap Depth	10 mm		
Flux Density	1.05 T		
Magnet Weight	1790 g		
Net Weight	6.7 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.6 Ω	Fs	47.0 Hz
Qms	5.80	Qes	0.42
Qts	0.39	Mms	60.0 g
Cms	191 μm/N	Bxl	15.38 Tm
Vas	76.5 l	Sd	530.9 cm ²
X max ⁽⁵⁾	+/- 5.5 mm	X var ⁽⁶⁾	+/- 8.5 mm
η ₀	1.84%	Le (1KHz)	0.70 mH



Frequency Response on 45 Lt @ 55 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Total Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	320 mm
Baffle Cutout Diameter	284 mm
Mounting Holes	8 holes 6x9 on ø 301 mm
Total Depth	141.3 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

12 S 3 PL

12" | 800 W

Code **Z007946**

Subwoofer

- 3" Sandwich voice coil Fiberglass former (SNDW)
- Double Cross Konex Spider with Progressive Waves (DCSP)
- Cloth surround with Double Asymmetric Rolls Technology (DAR)
- Autoclave Waterproof Cone Treatment (AWpT)
- High Excursion Neodymium Magnet Circuit (HeN)
- Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
- 95.8 dB sensitivity
- Frequency Range 40-2000 Hz

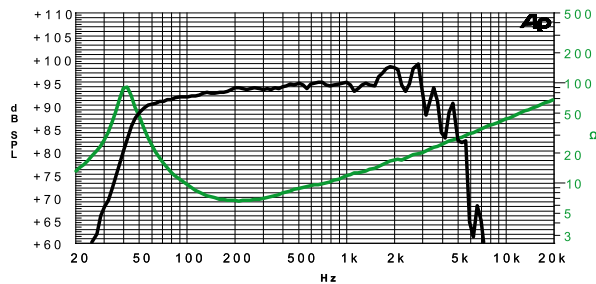


General Specifications

Nominal Diameter	320 mm / 12 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	400 W		
Continuous Program Power ⁽²⁾	800 W		
Sensitivity @ 1W/1m ⁽³⁾	95.8 dB		
Voice Coil Diameter	75 mm / 3 in		
Voice Coil Winding Depth	24 mm		
Magnetic Gap Depth	10 mm		
Flux Density	1.22 T		
Magnet Weight	360 g		
Net Weight	3.5 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.2 Ω	Fs	42.0 Hz
Qms	6.10	Qes	0.36
Qts	0.34	Mms	74.8 g
Cms	192 μm/N	Bxl	16.80 Tm
Vas	76.9 l	Sd	530.9 cm ²
X max ⁽⁵⁾	+/- 7.0 mm	X var ⁽⁶⁾	+/- 9.0 mm
η ₀	1.51%	Le (1KHz)	1.04 mH



Frequency Response on 60 Lt @ 45 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	320 mm
Baffle Cutout Diameter	284 mm
Mounting Holes	8 holes 6x9 on ø 301 mm
Total Depth	139.4 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

12 PFS 3

12" | 1000 W

Code Z007847

Subwoofer

3" Sandwich voice coil Fiberglass former (SNDW)
 Double Cross Konex Spider (DCS)
 Triple Roll Cloth surround (TR)
 Total Waterproof Cone Treatment (TWpT)
 High Excursion Ferrite Magnet Circuit (HeF)
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 93.6 dB sensitivity
 Frequency Range 40-2000 Hz

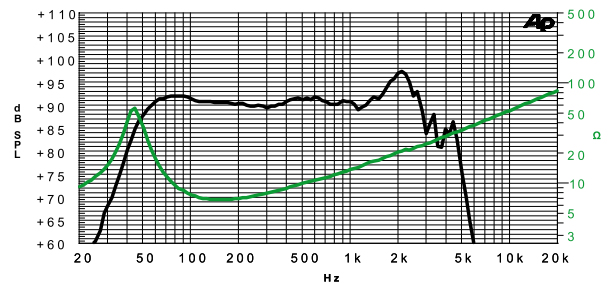


General Specifications

Nominal Diameter	321 mm / 12 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	500 W		
Continuous Program Power ⁽²⁾	1000 W		
Sensitivity @ 1W/1m ⁽³⁾	93.6 dB		
Voice Coil Diameter	75 mm / 3 in		
Voice Coil Winding Depth	24 mm		
Magnetic Gap Depth	10 mm		
Flux Density	1.04 T		
Magnet Weight	1790 g		
Net Weight	6.7 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.1 Ω	Fs	43.0 Hz
Qms	5.35	Qes	0.51
Qts	0.47	Mms	93.7 g
Cms	146 μm/N	Bxl	15.89 Tm
Vas	58.5 l	Sd	530.9 cm ²
X max ⁽⁵⁾	+/- 7.0 mm	X var ⁽⁶⁾	+/- 10.0 mm
η ₀	0.86%	Le (1KHz)	1.07 mH



Frequency Response on 60 Lt @ 45 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Total Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	320 mm
Baffle Cutout Diameter	284 mm
Mounting Holes	8 holes 6x9 on ø 301 mm
Total Depth	141.3 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

12 SR 3 PL

12" | 800 W

Code Z007948

Subwoofer

- 3" Sandwich voice coil Fiberglass former (SNDW)
- Double Cross Konex Spider (DCS)
- Rubber surround with Double Asymmetric Rolls Technology (DAR)
- Waterproof Cone Treatment (WpT)
- High Excursion Neodymium Magnet Circuit (HeN)
- Ventilated Voice Coil to reduce Power Compression (VVc)
- 91.8 dB sensitivity
- Frequency Range 35-2000 Hz

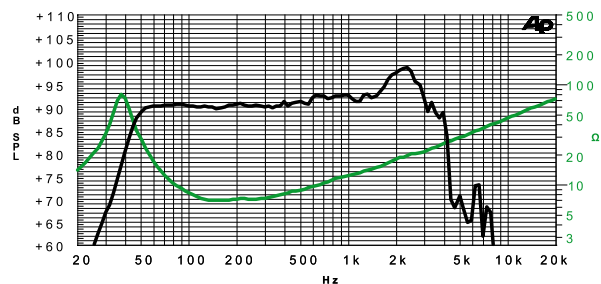


General Specifications

Nominal Diameter	320 mm / 12 in	
Nominal Impedance	8 Ω	
Rated Power AES ⁽¹⁾	400 W	
Continuous Program Power ⁽²⁾	800 W	
Sensitivity @ 1W/1m ⁽³⁾	91.8 dB	
Voice Coil Diameter	75 mm / 3 in	
Voice Coil Winding Depth	24 mm	
Magnetic Gap Depth	10 mm	
Flux Density	1.19 T	
Magnet Weight	360 g	
Net Weight	3.5 kg	

Thiele & Small Parameters⁽⁴⁾

Re	5.3 Ω	Fs	36.0 Hz
Qms	5.90	Qes	0.45
Qts	0.42	Mms	108.5 g
Cms	177 μm/N	Bxl	17.02 Tm
Vas	60.4 l	Sd	490.9 cm ²
X max ⁽⁵⁾	+/- 7.0 mm	X var ⁽⁶⁾	+/- 11.0 mm
η ₀	0.61%	Le (1KHz)	1.15 mH



Frequency Response on 60 Lt @ 45 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Rubber
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	320 mm
Baffle Cutout Diameter	284 mm
Mounting Holes	8 holes ø 6 on ø 300 mm
Total Depth	142.9 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

12 SR 3 CP

Subwoofer

12" | 900 W

Code Z007942



- 3" Sandwich voice coil Fiberglass former (SNDW)
- Double Cross Konex Spider (DCS)
- Rubber surround with Double Asymmetric Rolls Technology (DAR)
- Waterproof Cone Treatment (WpT)
- High Excursion Ferrite Magnet Circuit (HeF)
- Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
- 92.4 dB sensitivity
- Frequency Range 35-2000 Hz

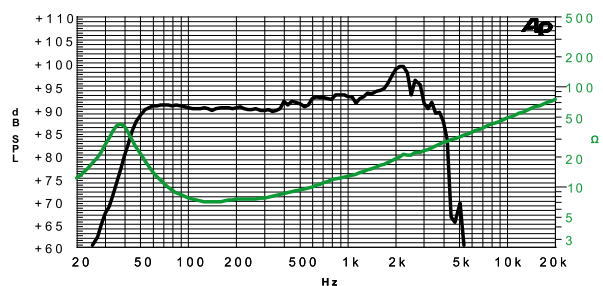


General Specifications

Nominal Diameter	321 mm / 12 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	450 W		
Continuous Program Power ⁽²⁾	900 W		
Sensitivity @ 1W/1m ⁽³⁾	92.4 dB		
Voice Coil Diameter	75 mm / 3 in		
Voice Coil Winding Depth	20 mm		
Magnetic Gap Depth	10 mm		
Flux Density	1.00 T		
Magnet Weight	1790 g		
Net Weight	7.3 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.1 Ω	Fs	36.8 Hz
Qms	3.20	Qes	0.44
Qts	0.39	Mms	100.1 g
Cms	187 μm/N	Bxl	16.39 Tm
Vas	64.0 l	Sd	490.9 cm ²
X max ⁽⁵⁾	+/- 6.0 mm	X var ⁽⁶⁾	+/- 8.8 mm
η ₀	0.67%	Le (1KHz)	1.14 mH



Frequency Response on 60 Lt @ 45 Hz Vented Box @ 1W, 1m, Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Rubber
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	320 mm
Baffle Cutout Diameter	284 mm
Mounting Holes	8 holes ø 6 on ø 300 mm
Total Depth	140.8 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

12 L1 2,5 SL

Professional

12" | 600 W

Code Z007903

2.5" voice coil Kapton former
 Konex Spider
 Neodymium Magnet Circuit
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 97.3 dB sensitivity
 Frequency Range 50-3000 Hz



SICA
 loudspeakers

31

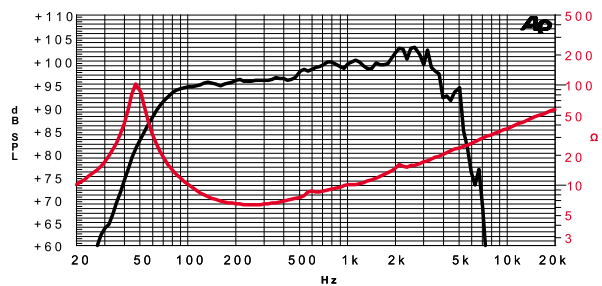


General Specifications

Nominal Diameter	318 mm / 12 in	
Nominal Impedance	8 Ω	
Rated Power AES ⁽¹⁾	300 W	
Continuous Program Power ⁽²⁾	600 W	
Sensitivity @ 1W/1m ⁽³⁾	97.3 dB	
Voice Coil Diameter	65 mm / 2.5 in	
Voice Coil Winding Depth	14 mm	
Magnetic Gap Depth	8 mm	
Flux Density	1.15 T	
Magnet Weight	220 g	
Net Weight	2.3 kg	

Thiele & Small Parameters⁽⁴⁾

Re	5.5 Ω	Fs	47.5 Hz
Qms	7.50	Qes	0.38
Qts	0.36	Mms	47.0 g
Cms	239 μm/N	Bxl	14.20 Tm
Vas	81.8 l	Sd	490.9 cm ²
X max ⁽⁵⁾	+/- 3.7 mm	X var ⁽⁶⁾	+/- 6.0 mm
η ₀	2.21%	Le (1KHz)	0.75 mH



Frequency Response on 45 Lt @ 55 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Pressed Sheet Steel
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	No
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	318 mm
Baffle Cutout Diameter	287 mm
Mounting Holes	8 holes 5x9 on ø 300 mm
Total Depth	130.2 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.



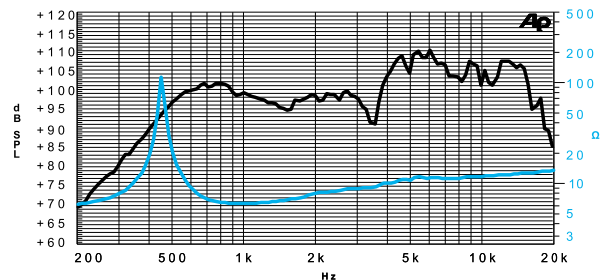
12 D 1,5 CS

Dual Cone

12" | 260 W

Code Z007360

1,5" voice coil Kapton former
 Dual Cone
 Ferrite Magnet Circuit with Copper Demodulating Ring (CDR)
 96.9 dB sensitivity
 Frequency Range 65-15000 Hz



Frequency Response on 45 Lt @ 55 Hz Vented Box @ 1W, 1m. Free Air Impedance.

General Specifications

Nominal Diameter	318 mm / 12 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	130 W		
Continuous Program Power ⁽²⁾	260 W		
Sensitivity @ 1W/1m ⁽³⁾	96.9 dB		
Voice Coil Diameter	38 mm / 1.5 in		
Voice Coil Winding Depth	9 mm		
Magnetic Gap Depth	8 mm		
Flux Density	1.21 T		
Magnet Weight	1100 g		
Net Weight	3.7 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.1 Ω	Fs	62.0 Hz
Qms	18.30	Qes	0.78
Qts	0.75	Mms	35.5 g
Cms	186 μm/N	Bxl	9.51 Tm
Vas	63.5 l	Sd	490.9 cm ²
X max ⁽⁵⁾	+/- 2.7 mm	X var ⁽⁶⁾	+/- 5.0 mm
η ₀	1.87%	Le (1KHz)	0.35 mH

Constructive Characteristics

Magnet	Ferrite
Basket Material	Pressed Sheet Steel
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	No
Surround Material	Paper - Integrated
Dust Dome Material	Non Treated Cloth

Mounting Information

Overall Diameter	318 mm
Baffle Cutout Diameter	287 mm
Mounting Holes	8 holes 5x9 on ø 300 mm
Total Depth	134.7 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

10 K 4 PL

Professional

10" | 1600 W

Code Z006950

4" Sandwich voice coil Fiberglass former (SNDW)
 Polycotton Spider with Progressive Waves (PS)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Autoclave Waterproof Cone Treatment (AWpT)
 Neodymium Magnet Circuit with Copper Demodulating Ring (CDR)
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 95.8 dB sensitivity
 Frequency Range 55-4000 Hz

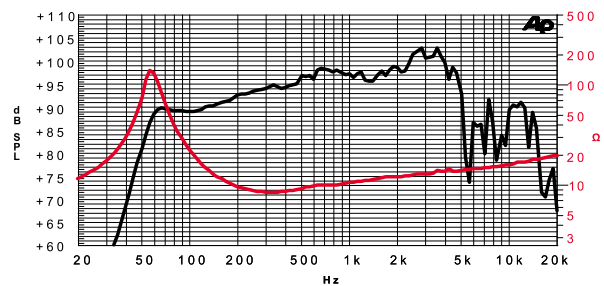


General Specifications

Nominal Diameter	269 mm / 10 in	
Nominal Impedance	8 Ω	
Rated Power AES ⁽¹⁾	800 W	
Continuous Program Power ⁽²⁾	1600 W	
Sensitivity @ 1W/1m ⁽³⁾	95.8 dB	
Voice Coil Diameter	100 mm / 4 in	
Voice Coil Winding Depth	19 mm	
Magnetic Gap Depth	12 mm	
Flux Density	1.10 T	
Magnet Weight	536 g	
Net Weight	6.3 kg	

Thiele & Small Parameters ⁽⁴⁾

Re	6.1 Ω	Fs	58.5 Hz
Qms	8.99	Qes	0.26
Qts	0.25	Mms	53.9 g
Cms	137 μm/N	Bxl	21.62 Tm
Vas	23.4 l	Sd	346.4 cm ²
X max ⁽⁵⁾	+/- 5.0 mm	X var ⁽⁶⁾	+/- 7.0 mm
η ₀	1.75%	Le (1KHz)	0.40 mH



Frequency Response on 35 Lt @ 60 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	268 mm
Baffle Cutout Diameter	232 mm
Mounting Holes	8 holes 6x9 on ø 247 mm
Total Depth	136 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

10 K 3 PL

Professional

10" | 800 W

Code Z005840



3" Sandwich voice coil Kapton former and Aluminium Winding (SNDW)
 Konex Spider with Progressive Waves (PS)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Autoclave Waterproof Cone Treatment (AWpT)
 Neodymium Magnet Circuit with Copper Demodulating Ring (CDR)
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 96.7 dB sensitivity
 Frequency Range 50-3000 Hz

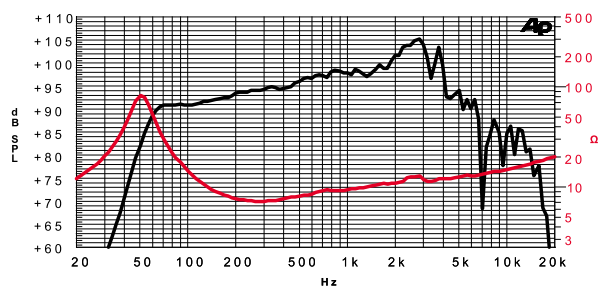


General Specifications

Nominal Diameter	268 mm / 10 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	400 W		
Continuous Program Power ⁽²⁾	800 W		
Sensitivity @ 1W/1m ⁽³⁾	96.7 dB		
Voice Coil Diameter	75 mm / 3 in		
Voice Coil Winding Depth	20 mm		
Magnetic Gap Depth	10 mm		
Flux Density	1.20 T		
Magnet Weight	360 g		
Net Weight	2.8 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.2 Ω	Fs	50.6 Hz
Qms	5.02	Qes	0.27
Qts	0.26	Mms	42.1 g
Cms	235 μm/N	Bxl	16.05 Tm
Vas	40.0 l	Sd	346.4 cm ²
X max ⁽⁵⁾	+/- 6.5 mm	X var ⁽⁶⁾	+/- 8.5 mm
η ₀	1.85%	Le (1KHz)	0.49 mH



Frequency Response on 35 Lt @ 60 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	268 mm
Baffle Cutout Diameter	232 mm
Mounting Holes	8 holes 6x9 on ø 247 mm
Total Depth	128.5 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

10 Fe 3 CP

Professional

10" | 900 W

Code Z005831

3" Sandwich voice coil Fiberglass former and Aluminium Winding (SNDW)
 Konex Spider with Progressive Waves (PS)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Waterproof Cone Treatment (WpT)
 Balanced Ferrite Magnet Circuit with Aluminium Demodulating Ring (BMF)
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 95.9 dB sensitivity
 Frequency Range 50-3000 Hz

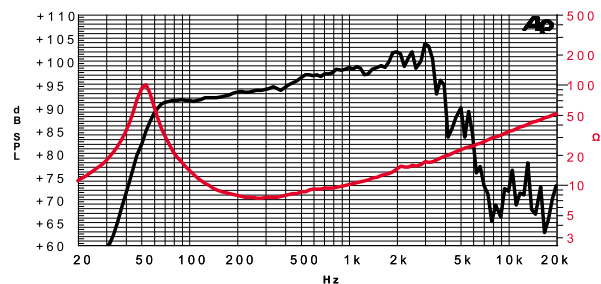


General Specifications

Nominal Diameter	269 mm / 10 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	450 W		
Continuous Program Power ⁽²⁾	900 W		
Sensitivity @ 1W/1m ⁽³⁾	95.9 dB		
Voice Coil Diameter	75 mm / 3 in		
Voice Coil Winding Depth	17 mm		
Magnetic Gap Depth	10 mm		
Flux Density	1.08 T		
Magnet Weight	1790 g		
Net Weight	6.6 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.6 Ω	Fs	52.0 Hz
Qms	7.50	Qes	0.32
Qts	0.31	Mms	41.4 g
Cms	226 μm/N	Bxl	15.35 Tm
Vas	38.6 l	Sd	346.4 cm ²
X max ⁽⁵⁾	+/- 5.0 mm	X var ⁽⁶⁾	+/- 7.5 mm
η ₀	1.63%	Le (1KHz)	0.67 mH



Frequency Response on 35 Lt @ 60 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	268 mm
Baffle Cutout Diameter	232 mm
Mounting Holes	8 holes 6x9 on ø 247 mm
Total Depth	122.5 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

10 S 3 PL

10" | 800 W

Code Z006015

Subwoofer

3" Sandwich voice coil Fiberglass former (SNDW)
 Konex Spider with Progressive Waves (PS)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Autoclave Waterproof Cone Treatment (AWpT)
 High Excursion Neodymium Magnet Circuit (HeN)
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 94.5 dB sensitivity
 Frequency Range 40-2000 Hz

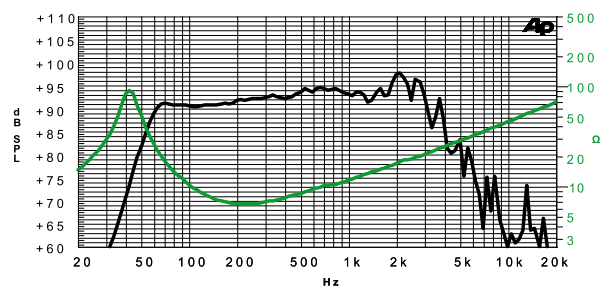


General Specifications

Nominal Diameter	268 mm / 10 in	
Nominal Impedance	8 Ω	
Rated Power AES ⁽¹⁾	400 W	
Continuous Program Power ⁽²⁾	800 W	
Sensitivity @ 1W/1m ⁽³⁾	94.5 dB	
Voice Coil Diameter	75 mm / 3 in	
Voice Coil Winding Depth	24 mm	
Magnetic Gap Depth	10 mm	
Flux Density	1.19 T	
Magnet Weight	360 g	
Net Weight	3.1 kg	

Thiele & Small Parameters⁽⁴⁾

Re	5.1 Ω	Fs	43.0 Hz
Qms	4.80	Qes	0.28
Qts	0.27	Mms	58.5 g
Cms	234 μm/N	Bxl	16.86 Tm
Vas	39.9 l	Sd	346.4 cm ²
X max ⁽⁵⁾	+/- 7.0 mm	X var ⁽⁶⁾	+/- 9.0 mm
η ₀	1.08%	Le (1KHz)	1.18 mH



Frequency Response on 35 Lt @ 60 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	268 mm
Baffle Cutout Diameter	232 mm
Mounting Holes	8 holes 6x9 on ø 247 mm
Total Depth	120.5 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

10 S 3 CP

10" | 900 W

Code Z006017

Subwoofer

3" Sandwich voice coil Fiberglass former (SNDW)
 Konex Spider with Progressive Waves (PS)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Autoclave Waterproof Cone Treatment (AWpT)
 High Excursion Ferrite Magnet Circuit (HeF)
 Ventilated Voice Coil to reduce Power Compression
 93.8 dB sensitivity
 Frequency Range 40-2000 Hz

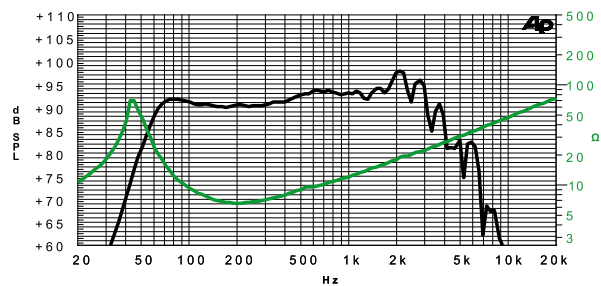


General Specifications

Nominal Diameter	269 mm / 10 in	
Nominal Impedance	8 Ω	
Rated Power AES ⁽¹⁾	450 W	
Continuous Program Power ⁽²⁾	900 W	
Sensitivity @ 1W/1m ⁽³⁾	93.8 dB	
Voice Coil Diameter	75 mm / 3 in	
Voice Coil Winding Depth	24 mm	
Magnetic Gap Depth	10 mm	
Flux Density	1.00 T	
Magnet Weight	1790 g	
Net Weight	6.5 kg	

Thiele & Small Parameters ⁽⁴⁾

Re	5.1 Ω	Fs	43.0 Hz
Qms	4.02	Qes	0.34
Qts	0.31	Mms	58.5 g
Cms	234 μm/N	Bxl	15.50 Tm
Vas	39.9 l	Sd	346.4 cm ²
X max ⁽⁵⁾	+/- 7.0 mm	X var ⁽⁶⁾	+/- 8.5 mm
η ₀	0.91%	Le (1KHz)	1.19 mH



Frequency Response on 35 Lt @ 60 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	268 mm
Baffle Cutout Diameter	232 mm
Mounting Holes	8 holes 6x9 on ø 247 mm
Total Depth	122.5 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

10 N 2,5 PL

Professional

10" | 600 W

Code Z005701

2,5" voice coil Kapton former and Aluminium Winding
 Spider with Progressive Waves (PS)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Waterproof Cone Treatment (WpT)
 Neodymium Magnet Circuit
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 96.6 dB sensitivity
 Frequency Range 55-3500 Hz

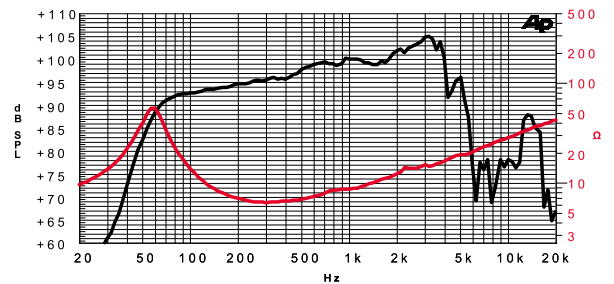


General Specifications

Nominal Diameter	268 mm / 10 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	300 W		
Continuous Program Power ⁽²⁾	600 W		
Sensitivity @ 1W/1m ⁽³⁾	96.6 dB		
Voice Coil Diameter	65 mm / 2.5 in		
Voice Coil Winding Depth	12 mm		
Magnetic Gap Depth	8 mm		
Flux Density	1.22 T		
Magnet Weight	220 g		
Net Weight	2.2 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.5 Ω	Fs	57.0 Hz
Qms	4.25	Qes	0.39
Qts	0.36	Mms	32.5 g
Cms	240 μm/N	Bxl	12.80 Tm
Vas	40.9 l	Sd	346.4 cm ²
X max ⁽⁵⁾	+/- 4.5 mm	X var ⁽⁶⁾	+/- 7.0 mm
η ₀	1.87%	Le (1KHz)	0.50 mH



Frequency Response on 35 Lt @ 60 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	268 mm
Baffle Cutout Diameter	232 mm
Mounting Holes	8 holes 6x9 on ø 247 mm
Total Depth	111.5 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

10 Fe 2,5 CP

Professional

10" | 600 W

Code Z005710

2,5" voice coil Fiberglass former and Aluminium Winding
 Spider with Progressive Waves (PS)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Waterproof Cone Treatment (WpT)
 Balanced Ferrite Magnet Circuit with Aluminium Demodulating Ring (BMF)
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 96.3 dB sensitivity
 Frequency Range 55-3500 Hz

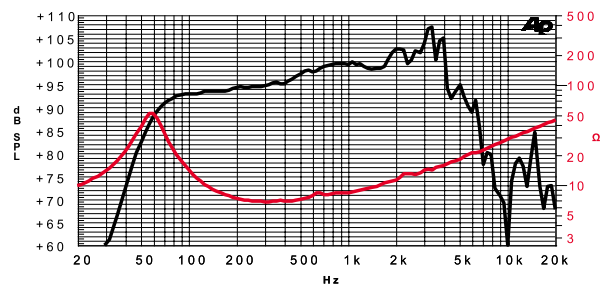


General Specifications

Nominal Diameter	269 mm / 10 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	300 W		
Continuous Program Power ⁽²⁾	600 W		
Sensitivity @ 1W/1m ⁽³⁾	96.3 dB		
Voice Coil Diameter	65 mm / 2.5 in		
Voice Coil Winding Depth	12 mm		
Magnetic Gap Depth	8 mm		
Flux Density	1.17 T		
Magnet Weight	1430 g		
Net Weight	4.9 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.5 Ω	Fs	57.0 Hz
Qms	4.23	Qes	0.40
Qts	0.37	Mms	33.5 g
Cms	233 μm/N	Bxl	12.80 Tm
Vas	39.7 l	Sd	346.4 cm ²
X max ⁽⁵⁾	+/- 4.0 mm	X var ⁽⁶⁾	+/- 7.0 mm
η ₀	1.76%	Le (1KHz)	0.46 mH



Frequency Response on 35 Lt @ 60 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	268 mm
Baffle Cutout Diameter	232 mm
Mounting Holes	8 holes 6x9 on ø 247 mm
Total Depth	119.5 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

10 SR 2,5 CP

10" | 600 W

Code Z006013

Subwoofer

2,5" voice coil Fiberglass former
 High Excursion Rubber surround (RHE)
 Waterproof Cone Treatment (WpT)
 High Excursion Ferrite Magnet Circuit (HeF)
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 93.0 dB sensitivity
 Frequency Range 35-2000 Hz

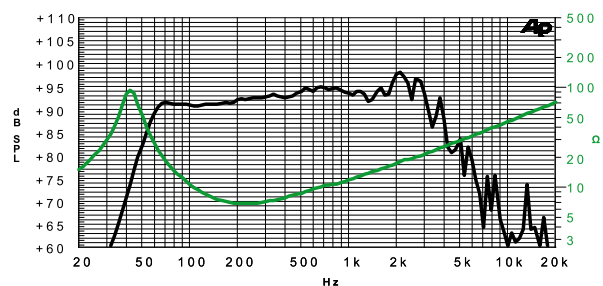


General Specifications

Nominal Diameter	269 mm / 10 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	300 W		
Continuous Program Power ⁽²⁾	600 W		
Sensitivity @ 1W/1m ⁽³⁾	93.0 dB		
Voice Coil Diameter	65 mm / 2.5 in		
Voice Coil Winding Depth	18 mm		
Magnetic Gap Depth	8 mm		
Flux Density	1.05 T		
Magnet Weight	1430 g		
Net Weight	5.0 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.2 Ω	Fs	34.5 Hz
Qms	6.35	Qes	0.34
Qts	0.32	Mms	56.5 g
Cms	377 μm/N	Bxl	13.7 Tm
Vas	66.7 l	Sd	353.0 cm ²
X max ⁽⁵⁾	+/- 6.0 mm	X var ⁽⁶⁾	+/- 10.0 mm
η ₀	0.78%	Le (1KHz)	1.16 mH



Frequency Response on 35 Lt @ 60 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Rubber
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	270 mm
Baffle Cutout Diameter	232 mm
Mounting Holes	8 holes ø 6 on ø 252 mm
Total Depth	122 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

10 D 1,5 CS

Dual Cone

10" | 200 W

Code Z006510

1,5" voice coil Kapton former

Dual Cone

Ferrite Magnet Circuit with Copper Demodulating Ring (CDR)

93.9 dB sensitivity

Frequency Range 70-15000 Hz



SICA
loudspeakers

41

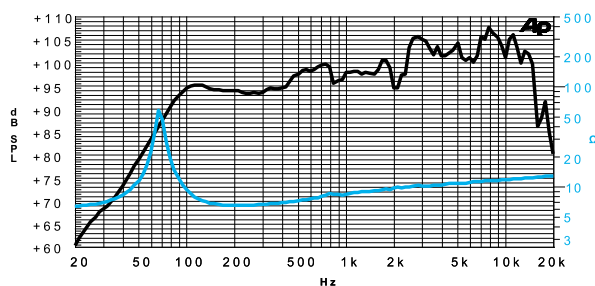
CDR

General Specifications

Nominal Diameter	266 mm / 10 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	100 W		
Continuous Program Power ⁽²⁾	200 W		
Sensitivity @ 1W/1m ⁽³⁾	93.9 dB		
Voice Coil Diameter	38 mm / 1.5 in		
Voice Coil Winding Depth	9 mm		
Magnetic Gap Depth	6 mm		
Flux Density	0.95 T		
Magnet Weight	426 g		
Net Weight	1.9 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.0 Ω	Fs	68.0 Hz
Qms	12.27	Qes	1.23
Qts	1.12	Mms	22.6 g
Cms	242 μm/N	Bxl	6.26 Tm
Vas	37.5 l	Sd	330.1 cm ²
X max ⁽⁵⁾	+/- 2.5 mm	X var ⁽⁶⁾	+/- 5.0 mm
η ₀	0.92%	Le (1KHz)	0.26 mH



Frequency Response on 35 Lt Closed Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Pressed Sheet Steel
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	No
Surround Material	Paper - Integrated
Dust Dome Material	Non Treated Cloth

Mounting Information

Overall Diameter	266 mm
Baffle Cutout Diameter	237 mm
Mounting Holes	8 holes 5x9 on ø 250 mm
Total Depth	97.4 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

MADE IN ITALY

8 K 3 PL

Professional

8" | 800 W

Code Z005520

3" Sandwich voice coil Fiberglass former and Aluminium Winding (SNDW)
 Konex Spider with Progressive Waves (PS)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Autoclave Waterproof Cone Treatment (AWpT)
 Neodymium Magnet Circuit with Copper Demodulating Ring (CDR)
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 95.1 dB sensitivity
 Frequency Range 65-3000 Hz

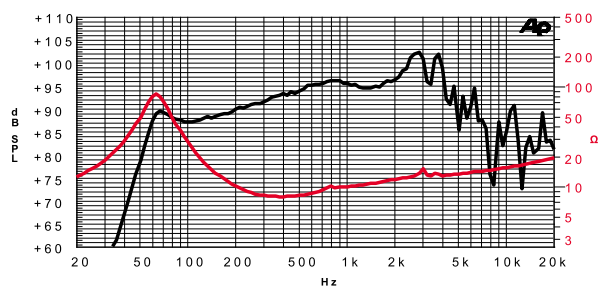


General Specifications

Nominal Diameter	210 mm / 8 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	400 W		
Continuous Program Power ⁽²⁾	800 W		
Sensitivity @ 1W/1m ⁽³⁾	95.1 dB		
Voice Coil Diameter	75 mm / 3 in		
Voice Coil Winding Depth	17 mm		
Magnetic Gap Depth	10 mm		
Flux Density	1.20 T		
Magnet Weight	360 g		
Net Weight	2.4 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.6 Ω	Fs	68.1 Hz
Qms	3.85	Qes	0.27
Qts	0.25	Mms	29.0 g
Cms	188 μm/N	Bxl	16.10 Tm
Vas	12.2 l	Sd	213.8 cm ²
X max ⁽⁵⁾	+/- 5.0 mm	X var ⁽⁶⁾	+/- 6.5 mm
η ₀	1.38%	Le (1KHz)	0.37 mH



Frequency Response on 25 Lt @ 65 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	210 mm
Baffle Cutout Diameter	184 mm
Mounting Holes	4 holes 5.5x7.5 on ø 196 mm
Total Depth	93 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

8 N 2,5 PL

8" | 600 W

Code Z005200

Professional

2,5" voice coil Kapton former and Aluminium Winding
 Spider with Progressive Waves (PS)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Waterproof Cone Treatment (WpT)
 Neodymium Magnet Circuit
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 96.4 dB sensitivity
 Frequency Range 75-4000 Hz

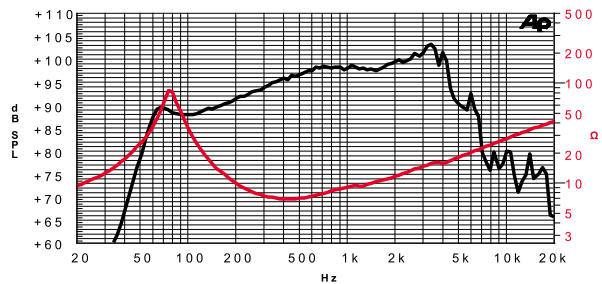


General Specifications

Nominal Diameter	210 mm / 8 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	300 W		
Continuous Program Power ⁽²⁾	600 W		
Sensitivity @ 1W/1m ⁽³⁾	96.4 dB		
Voice Coil Diameter	65 mm / 2.5 in		
Voice Coil Winding Depth	13 mm		
Magnetic Gap Depth	8 mm		
Flux Density	1.22 T		
Magnet Weight	220 g		
Net Weight	1.8 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.6 Ω	Fs	77.0 Hz
Qms	4.21	Qes	0.33
Qts	0.30	Mms	20.3 g
Cms	210 μm/N	Bxl	12.95 Tm
Vas	13.7 l	Sd	213.8 cm ²
X max ⁽⁵⁾	+/- 3.5 mm	X var ⁽⁶⁾	+/- 6.2 mm
η _b	1.83%	Le (1KHz)	0.37 mH



Frequency Response on 25 Lt @ 65 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	210 mm
Baffle Cutout Diameter	184 mm
Mounting Holes	4 holes 5.5x7.5 on ø 196 mm
Total Depth	90 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

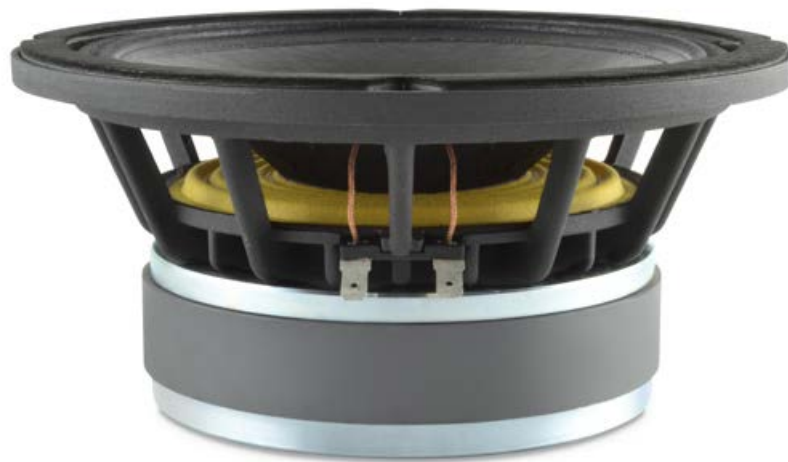
8 Fe 2,5 CP

Professional

8" | 600 W

Code Z005203

2,5" voice coil Kapton former and Aluminium Winding
 Spider with Progressive Waves (PS)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Waterproof Cone Treatment (WpT)
 Balanced Ferrite Magnet Circuit with Aluminium Demodulating Ring (BMF)
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 96.7 dB sensitivity
 Frequency Range 70-4000 Hz

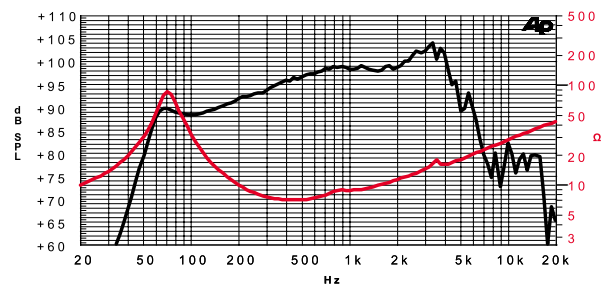


General Specifications

Nominal Diameter	210 mm / 8 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	300 W		
Continuous Program Power ⁽²⁾	600 W		
Sensitivity @ 1W/1m ⁽³⁾	96.7 dB		
Voice Coil Diameter	65 mm / 2.5 in		
Voice Coil Winding Depth	13 mm		
Magnetic Gap Depth	8 mm		
Flux Density	1.11 T		
Magnet Weight	1430 g		
Net Weight	4.5 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.5 Ω	Fs	73.0 Hz
Qms	3.73	Qes	0.30
Qts	0.28	Mms	19.8 g
Cms	240 μm/N	Bxl	13.01 Tm
Vas	15.6 l	Sd	213.8 cm ²
X max ⁽⁵⁾	+/- 4.0 mm	X var ⁽⁶⁾	+/- 6.5 mm
η ₀	1.97%	Le (1KHz)	0.50 mH



Frequency Response on 25 Lt @ 65 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	210 mm
Baffle Cutout Diameter	184 mm
Mounting Holes	4 holes 5.5x7.5 on ø 196 mm
Total Depth	98 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

8 S 2,5 CP

8" | 600 W

Code Z005205

Subwoofer

2,5" voice coil Fiberglass former
 Spider with Progressive Waves (PS)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Waterproof Cone Treatment (WpT)
 High Excursion Ferrite Magnet Circuit (HeF)
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 93.0 dB sensitivity
 Frequency Range 50-3500 Hz

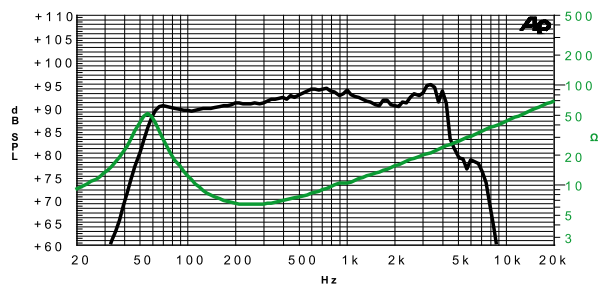


General Specifications

Nominal Diameter	210 mm / 8 in	
Nominal Impedance	8 Ω	
Rated Power AES ⁽¹⁾	300 W	
Continuous Program Power ⁽²⁾	600 W	
Sensitivity @ 1W/1m ⁽³⁾	93.0 dB	
Voice Coil Diameter	65 mm / 2.5 in	
Voice Coil Winding Depth	18 mm	
Magnetic Gap Depth	8 mm	
Flux Density	0.89 T	
Magnet Weight	1430 g	
Net Weight	4.5 kg	

Thiele & Small Parameters⁽⁴⁾

Re	5.1 Ω	Fs	54.0 Hz
Qms	3.44	Qes	0.37
Qts	0.33	Mms	30.3 g
Cms	287 μm/N	Bxl	11.90 Tm
Vas	18.6 l	Sd	213.8 cm ²
X max ⁽⁵⁾	+/- 5.0 mm	X var ⁽⁶⁾	+/- 7.0 mm
η ₀	0.76%	Le (1KHz)	1.00 mH



Frequency Response on 25 Lt @ 65 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	210 mm
Baffle Cutout Diameter	184 mm
Mounting Holes	4 holes 5,5x7,5 on ø 196 mm
Total Depth	98 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

8 H 2 CP

Studio Monitor

8" | 400 W

Code Z005158

2" voice coil Kapton former
 Spider with Progressive Waves (PS)
 Damping Cone Treatment (DT)
 Balanced Ferrite Magnet Circuit with Copper Demodulating Ring (CDR)
 Ventilated Magnet to reduce Power Compression (VM)
 88.8 dB sensitivity
 Frequency Range 35-3000 Hz

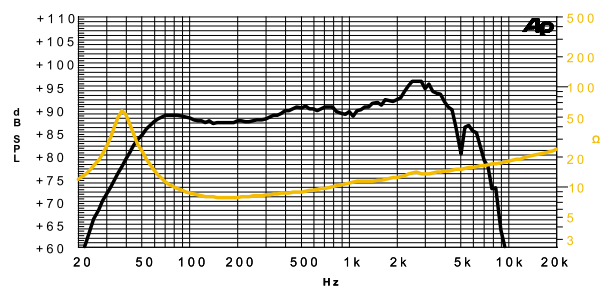


General Specifications

Nominal Diameter	210 mm / 8 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	200 W		
Continuous Program Power ⁽²⁾	400 W		
Sensitivity @ 1W/1m ⁽³⁾	88.8 dB		
Voice Coil Diameter	50 mm / 2 in		
Voice Coil Winding Depth	18 mm		
Magnetic Gap Depth	5 mm		
Flux Density	0.89 T		
Magnet Weight	930 g		
Net Weight	2.7 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	6.1 Ω	Fs	38.0 Hz
Qms	5.25	Qes	0.53
Qts	0.48	Mms	32.7 g
Cms	536 μm/N	Bxl	9.45 Tm
Vas	34.8 l	Sd	213.8 cm ²
X max ⁽⁵⁾	+/- 6.5 mm	X var ⁽⁶⁾	+/- 9.0 mm
η ₀	0.35%	Le (1KHz)	0.59 mH



Frequency Response on 25 Lt @ 45 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Surface Damping Treatment
Surround Material	Rubber
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	210 mm
Baffle Cutout Diameter	184 mm
Mounting Holes	4 holes 5.5x7.5 on ø 196 mm
Total Depth	93.0 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

8 L 2 SL

8" | 400 W

Code Z005055

Professional

2" voice coil Kapton former
Neodymium Magnet Circuit
Ventilated Magnet and Voice Coil to reduce Power Compression (VMVC)
94.5 dB sensitivity
Frequency Range 65-3000 Hz



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loudspeakers

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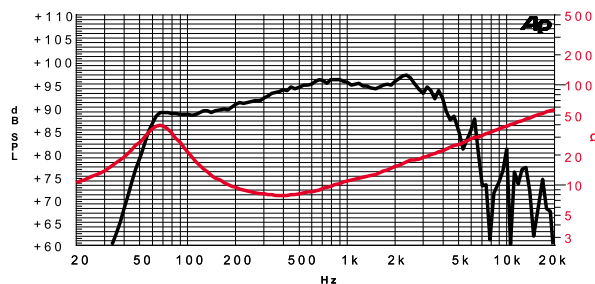


General Specifications

Nominal Diameter	209 mm / 8 in	
Nominal Impedance	8 Ω	
Rated Power AES ⁽¹⁾	200 W	
Continuous Program Power ⁽²⁾	400 W	
Sensitivity @ 1W/1m ⁽³⁾	94.5 dB	
Voice Coil Diameter	50 mm / 2 in	
Voice Coil Winding Depth	14 mm	
Magnetic Gap Depth	8 mm	
Flux Density	1.20 T	
Magnet Weight	160 g	
Net Weight	1.6 kg	

Thiele & Small Parameters ⁽⁴⁾

Re	6.1 Ω	Fs	64.0 Hz
Qms	2.69	Qes	0.36
Qts	0.32	Mms	22.1 g
Cms	280 μm/N	Bxl	12.30 Tm
Vas	18.2 l	Sd	231.8 cm ²
X max ⁽⁵⁾	+/- 3.5 mm	X var ⁽⁶⁾	+/- 5.0 mm
η ₀	1.28%	Le (1KHz)	0.85 mH



Frequency Response on 25 Lt @ 65 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Pressed Sheet Steel
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	No
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	210 mm
Baffle Cutout Diameter	181 mm
Mounting Holes	4 holes ø 4.5 on ø 198.5 mm
Total Depth	94.5 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

MADE IN ITALY

8 Fe 2 CP

Professional

8" | 400 W

Code Z005112

2" voice coil Kapton former
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Waterproof Cone Treatment (WpT)
 Balanced Ferrite Magnet Circuit with Aluminium Demodulating Ring (BMF)
 Ventilated Magnet to reduce Power Compression (VM)
 94.6 dB sensitivity
 Frequency Range 65-3000 Hz

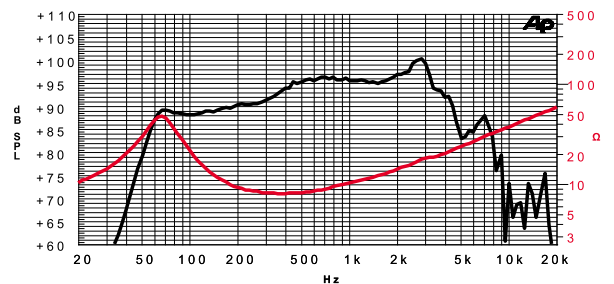


General Specifications

Nominal Diameter	210 mm / 8 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	200 W		
Continuous Program Power ⁽²⁾	400 W		
Sensitivity @ 1W/1m ⁽³⁾	94.6 dB		
Voice Coil Diameter	50 mm / 2 in		
Voice Coil Winding Depth	14 mm		
Magnetic Gap Depth	8 mm		
Flux Density	1.20 T		
Magnet Weight	930 g		
Net Weight	2.8 kg		

Thiele & Small Parameters⁽⁴⁾

Re	6.1 Ω	Fs	67.0 Hz
Qms	2.27	Qes	0.37
Qts	0.32	Mms	21.7 g
Cms	260 μm/N	Bxl	12.27 Tm
Vas	16.9 l	Sd	213.8 cm ²
X max ⁽⁵⁾	+/- 4.5 mm	X var ⁽⁶⁾	+/- 7.0 mm
η ₀	1.32%	Le (1KHz)	0.78 mH



Frequency Response on 25 Lt @ 65 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	210 mm
Baffle Cutout Diameter	184 mm
Mounting Holes	4 holes 5.5x7.5 on ø 196 mm
Total Depth	93 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

8 M 1,5 CS

8" | 200 W

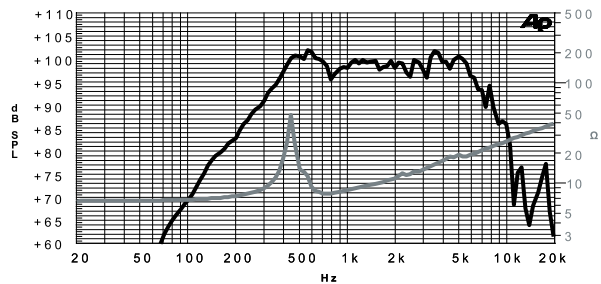
Code Z004930

Midrange

1,5" voice coil Epotex former
 Ferrite Magnet Circuit
 Closed steel basket
 98.7 dB sensitivity
 Frequency Range 500-6000 Hz



General Specifications			
Nominal Diameter	208 mm / 8 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	100 W		
Continuous Program Power ⁽²⁾	200 W		
Sensitivity @ 1W/1m ⁽³⁾	98.7 dB		
Voice Coil Diameter	38 mm / 1.5 in		
Voice Coil Winding Depth	8 mm		
Magnetic Gap Depth	6 mm		
Flux Density	1.15 T		
Magnet Weight	640 g		
Net Weight	2.7 kg		
Thiele & Small Parameters ⁽⁴⁾			
Re	6.0 Ω	Fs	460.0 Hz
Qms	12.36	Qes	2.13
Qts	1.82	Mms	11.6 g
Cms	10 μm/N	Bxl	9.83 Tm
Vas	0.7 l	Sd	213.8 cm ²
X max ⁽⁵⁾	+/- 1.0 mm	X var ⁽⁶⁾	+/- 1.0 mm
η ₀	2.91%	Le (1KHz)	0.37 mH



Frequency Response on IEC Baffle (DIN 45575) @ 1W, 1m. Free Air Impedance.

Constructive Characteristics	
Magnet	Ferrite
Basket Material	Pressed Sheet Steel
Voice Coil Winding Material	Copper
Voice Coil Former Material	Epotex
Cone Material	Paper
Cone Treatment	No
Surround Material	Paper - Integrated
Dust Dome Material	Paper Ogive
Mounting Information	
Overall Diameter	208 mm
Baffle Cutout Diameter	184 mm
Mounting Holes	4 holes 5x8 on ø 197 mm
Total Depth	82 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

8 D 1,5 CS

8" | 260 W

Code Z004950

Dual Cone

1,5" voice coil Kapton former

Dual Cone

Ferrite Magnet Circuit with Copper Demodulating Ring (CDR)

95.3 dB sensitivity

Frequency Range 65-15000 Hz



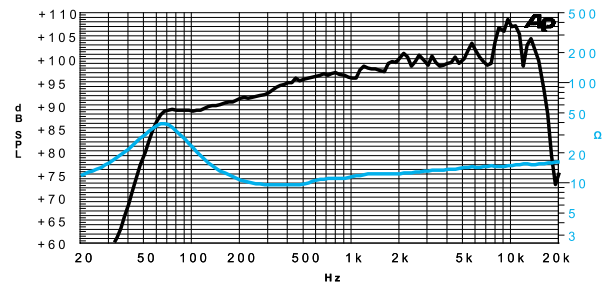
CDR

General Specifications

Nominal Diameter	208 mm / 8 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	130 W		
Continuous Program Power ⁽²⁾	260 W		
Sensitivity @ 1W/1m ⁽³⁾	95.3 dB		
Voice Coil Diameter	38 mm / 1.5 in		
Voice Coil Winding Depth	10 mm		
Magnetic Gap Depth	8 mm		
Flux Density	1.10 T		
Magnet Weight	1100 g		
Net Weight	3.1 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	6.6 Ω	Fs	62.0 Hz
Qms	2.21	Qes	0.35
Qts	0.30	Mms	16.8 g
Cms	392 μm/N	Bxl	11.18 Tm
Vas	25.5 l	Sd	213.8 cm ²
X max ⁽⁵⁾	+/- 2.5 mm	X var ⁽⁶⁾	+/- 4.0 mm
η ₀	1.69%	Le (1KHz)	0.35 mH



Frequency Response on 25 Lt @ 65 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Pressed Sheet Steel
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	No
Surround Material	Treated Cloth
Dust Dome Material	Treated Cloth

Mounting Information

Overall Diameter	208 mm
Baffle Cutout Diameter	184 mm
Mounting Holes	4 holes 5x8 on ø 197 mm
Total Depth	88.6 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

6,5 H 1,5 CP

6,5" | 240 W

Code Z004100

Studio Monitor

- 1,5" voice coil Kapton former
- Spider with Progressive Waves (PS)
- Rubber surround with Double Asymmetric Rolls Technology (DAR)
- Damping Cone Treatment (DT)
- Ferrite Magnet Circuit with Copper Demodulating Ring (CDR)
- Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
- 89.4 dB sensitivity
- Frequency Range 40-4500 Hz



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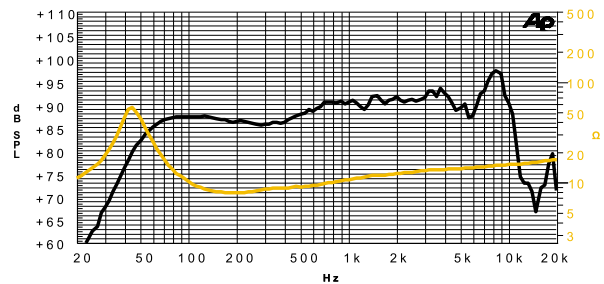


General Specifications

Nominal Diameter	174 mm / 6.5 in	
Nominal Impedance	8 Ω	
Rated Power AES ⁽¹⁾	120 W	
Continuous Program Power ⁽²⁾	240 W	
Sensitivity @ 1W/1m ⁽³⁾	89.4 dB	
Voice Coil Diameter	38 mm / 1.5 in	
Voice Coil Winding Depth	15 mm	
Magnetic Gap Depth	6 mm	
Flux Density	0.90 T	
Magnet Weight	515 g	
Net Weight	1.6 kg	

Thiele & Small Parameters⁽⁴⁾

Re	6.1 Ω	Fs	45.4 Hz
Qms	5.21	Qes	0.46
Qts	0.42	Mms	13.0 g
Cms	945 μm/N	Bxl	7.02 Tm
Vas	20.2 l	Sd	122.7 cm ²
X max ⁽⁵⁾	+/- 6.0 mm	X var ⁽⁶⁾	+/- 8.5 mm
η ₀	0.40%	Le (1KHz)	0.48 mH



Frequency Response on 18 Lt @ 50 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Surface Damping Treatment
Surround Material	Rubber
Dust Dome Material	Paper ogive

Mounting Information

Overall Diameter	175 mm
Baffle Cutout Diameter	143 mm
Mounting Holes	8 holes ø 5.5 on ø 164.2 mm
Total Depth	77.5 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

MADE IN ITALY

6 N 2,5 PL

Professional

6" | 600 W

Code Z004080

2,5" Sandwich voice coil Fiberglass former and Aluminium Winding (SNDW)
 Spider with Progressive Waves (PS)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Autoclave Waterproof Cone Treatment (AWpT)
 Neodymium Magnet Circuit
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 92.5 dB sensitivity
 Frequency Range 80-5000 Hz

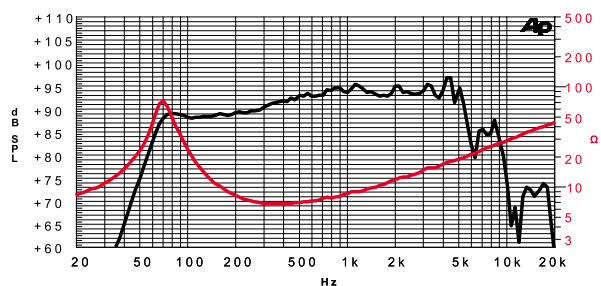


General Specifications

Nominal Diameter	166 mm / 6 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	300 W		
Continuous Program Power ⁽²⁾	600 W		
Sensitivity @ 1W/1m ⁽³⁾	92.5 dB		
Voice Coil Diameter	65 mm / 2.5 in		
Voice Coil Winding Depth	16 mm		
Magnetic Gap Depth	8 mm		
Flux Density	1.14 T		
Magnet Weight	220 g		
Net Weight	1.5 kg		

Thiele & Small Parameters⁽⁴⁾

Re	6.2 Ω	Fs	80.0 Hz
Qms	3.05	Qes	0.29
Qts	0.27	Mms	17.1 g
Cms	231 μm/N	Bxl	13.50 Tm
Vas	4.9 l	Sd	122.7 cm ²
X max ⁽⁵⁾	+/- 4.5 mm	X var ⁽⁶⁾	+/- 6.5 mm
η ₀	0.84%	Le (1KHz)	0.62 mH



Frequency Response on 18 Lt @ 70 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	166 mm
Baffle Cutout Diameter	143 mm
Mounting Holes	4 holes 5x6 on ø 155 mm
Total Depth	82.8 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

6 N 2 PL

6" | 400 W

Code **Z004083**

2" voice coil Fiberglass former and Aluminium Winding
 Spider with Progressive Waves (PS)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Waterproof Cone Treatment (WpT)
 Neodymium Magnet Circuit
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 92.3 dB sensitivity
 Frequency Range 70-5000 Hz

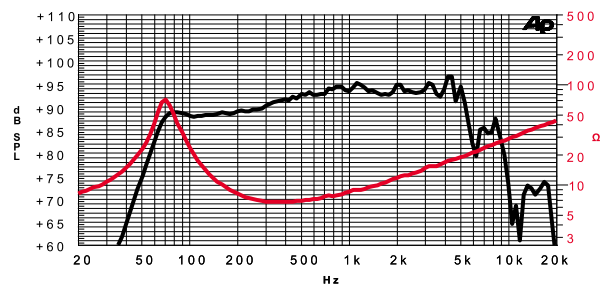


General Specifications

Nominal Diameter	166 mm / 6 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	200 W		
Continuous Program Power ⁽²⁾	400 W		
Sensitivity @ 1W/1m ⁽³⁾	92.3 dB		
Voice Coil Diameter	50 mm / 2 in		
Voice Coil Winding Depth	15 mm		
Magnetic Gap Depth	8 mm		
Flux Density	1.20 T		
Magnet Weight	160 g		
Net Weight	1.5 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.7 Ω	Fs	68.0 Hz
Qms	4.02	Qes	0.36
Qts	0.33	Mms	13.5 g
Cms	406 μm/N	Bxl	9.50 Tm
Vas	8.7 l	Sd	122.7 cm ²
X max ⁽⁵⁾	+/- 3.5 mm	X var ⁽⁶⁾	+/- 5.0 mm
η ₀	0.72%	Le (1KHz)	0.61 mH



Frequency Response on 18 Lt @ 70 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	166 mm
Baffle Cutout Diameter	143 mm
Mounting Holes	4 holes 5x6 on ø 155 mm
Total Depth	82.8 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

6 NR 2 PL

Professional

6" | 400 W

Code Z004068

2" voice coil Fiberglass former and Aluminium Winding
 Spider with Progressive Waves (PS)
 Rubber surround with Double Asymmetric Rolls Technology (DAR)
 Waterproof Cone Treatment (WpT)
 Neodymium Magnet Circuit
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 91.4 dB sensitivity
 Frequency Range 60-5000 Hz

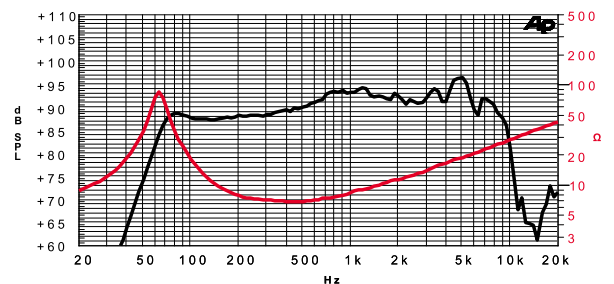


General Specifications

Nominal Diameter	166 mm / 6 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	200 W		
Continuous Program Power ⁽²⁾	400 W		
Sensitivity @ 1W/1m ⁽³⁾	91.4 dB		
Voice Coil Diameter	50 mm / 2 in		
Voice Coil Winding Depth	16 mm		
Magnetic Gap Depth	8 mm		
Flux Density	1.20 T		
Magnet Weight	160 g		
Net Weight	1.5 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.6 Ω	Fs	60.5 Hz
Qms	6.05	Qes	0.34
Qts	0.33	Mms	15.7 g
Cms	441 μm/N	Bxl	9.86 Tm
Vas	9.4 l	Sd	122.7 cm ²
X max ⁽⁵⁾	+/- 4.0 mm	X var ⁽⁶⁾	+/- 6.5 mm
η ₀	0.58%	Le (1KHz)	0.51 mH



Frequency Response on 18 Lt @ 70 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Fiberglass
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Rubber
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	166 mm
Baffle Cutout Diameter	143 mm
Mounting Holes	4 holes 5x6 on ø 155 mm
Total Depth	82.8 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

6 M 2 CP

6" | 300 W

Code **Z004079**

Midrange

2" voice coil Kapton former and Aluminium Winding
 Spider with Progressive Waves (PS)
 Ferrite Magnet Circuit
 Ventilated Voice Coil to reduce Power Compression (VVC)
 96.8 dB sensitivity
 Frequency Range 130-6000 Hz



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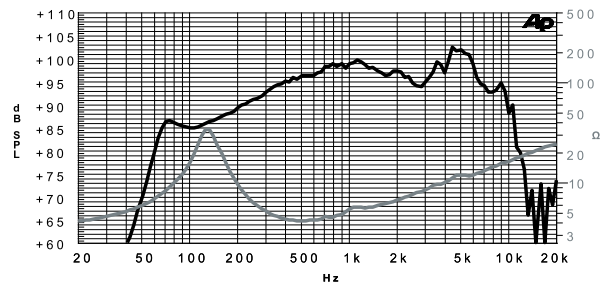
PS VVC

General Specifications

Nominal Diameter	166 mm / 6 in	
Nominal Impedance	4 Ω	
Rated Power AES ⁽¹⁾	150 W	
Continuous Program Power ⁽²⁾	300 W	
Sensitivity @ 1W/1m ⁽³⁾	96.8 dB	
Voice Coil Diameter	50 mm / 2 in	
Voice Coil Winding Depth	9 mm	
Magnetic Gap Depth	8 mm	
Flux Density	1.14 T	
Magnet Weight	810 g	
Net Weight	2.7 kg	

Thiele & Small Parameters⁽⁴⁾

Re	3.1 Ω	Fs	135.0 Hz
Qms	4.05	Qes	0.38
Qts	0.35	Mms	10.8 g
Cms	129 μm/N	Bxl	8.62 Tm
Vas	3.5 l	Sd	138.9 cm ²
X max ⁽⁵⁾	+/- 2.0 mm	X var ⁽⁶⁾	+/- 4.0 mm
η ₀	2.21%	Le (1KHz)	0.38 mH



Frequency Response on 18 Lt @ 70 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	No
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	166 mm
Baffle Cutout Diameter	143 mm
Mounting Holes	4 holes 6x5 on ø 155 mm
Total Depth	77.8 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

MADE IN ITALY

6 L 1,5 SL

Professional

6" | 260 W

Code Z004059

1,5" voice coil Aluminium former
 Rubber surround with Double Asymmetric Rolls Technology (DAR)
 Waterproof Cone Treatment (WpT)
 Neodymium Magnet Circuit
 Ventilated Magnet and Voice Coil to reduce Power Compression (VMVc)
 91.0 dB sensitivity
 Frequency Range 60-4000 Hz

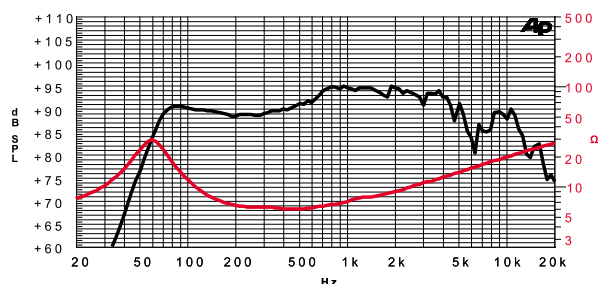


General Specifications

Nominal Diameter	164 mm / 6 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	130 W		
Continuous Program Power ⁽²⁾	260 W		
Sensitivity @ 1W/1m ⁽³⁾	91.0 dB		
Voice Coil Diameter	38 mm / 1.5 in		
Voice Coil Winding Depth	11 mm		
Magnetic Gap Depth	6 mm		
Flux Density	1.14 T		
Magnet Weight	98 g		
Net Weight	0.9 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.0 Ω	Fs	59.0 Hz
Qms	2.31	Qes	0.47
Qts	0.39	Mms	14.1 g
Cms	516 μm/N	Bxl	7.50 Tm
Vas	11.0 l	Sd	122.7 cm ²
X max ⁽⁵⁾	+/- 2.5 mm	X var ⁽⁶⁾	+/- 3.9 mm
η ₀	0.47%	Le (1KHz)	0.48 mH



Frequency Response on 18 Lt @ 70 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Pressed Sheet Steel
Voice Coil Winding Material	Copper
Voice Coil Former Material	Aluminium
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Rubber
Dust Dome Material	Paper Ogive

Mounting Information

Overall Diameter	165.8 mm
Baffle Cutout Diameter	142 mm
Mounting Holes	4 holes 5x7 on ø 156 mm
Total Depth	79.2 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

6 E 1,5 CS

6" | 200 W

Code Z004035

Professional

1,5" voice coil Aluminium former
 Rubber surround with Double Asymmetric Rolls Technology (DAR)
 Waterproof Cone Treatment (WpT)
 Ferrite Magnet Circuit
 Ventilated Voice Coil to reduce Power Compression (VVC)
 91.5 dB sensitivity
 Frequency Range 60-4000 Hz



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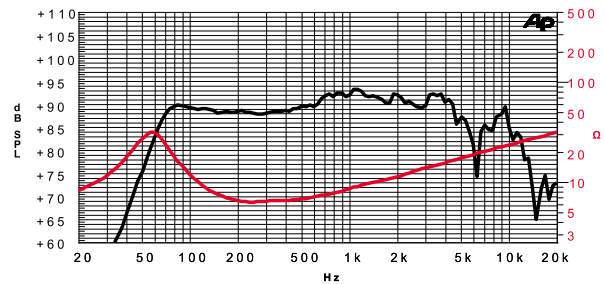


General Specifications

Nominal Diameter	164 mm / 6 in	
Nominal Impedance	8 Ω	
Rated Power AES ⁽¹⁾	100 W	
Continuous Program Power ⁽²⁾	200 W	
Sensitivity @ 1W/1m ⁽³⁾	91.5 dB	
Voice Coil Diameter	38 mm / 1.5 in	
Voice Coil Winding Depth	11 mm	
Magnetic Gap Depth	8 mm	
Flux Density	1.00 T	
Magnet Weight	426 g	
Net Weight	1.5 kg	

Thiele & Small Parameters ⁽⁴⁾

Re	5.0 Ω	Fs	60.0 Hz
Qms	2.4	Qes	0.45
Qts	0.38	Mms	13.3 g
Cms	529 μm/N	Bxl	7.5 Tm
Vas	11.3 l	Sd	122.7 cm ²
X max ⁽⁵⁾	+/- 2.5 mm	X var ⁽⁶⁾	+/- 4.5 mm
η ₀	0.53%	Le (1KHz)	0.61 mH



Frequency Response on 10 Lt @ 75 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Pressed Sheet Steel
Voice Coil Winding Material	Copper
Voice Coil Former Material	Aluminium
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Rubber
Dust Dome Material	Paper Ogive

Mounting Information

Overall Diameter	165.8 mm
Baffle Cutout Diameter	142 mm
Mounting Holes	4 holes 5x7 on ø 156 mm
Total Depth	75.7 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

MADE IN ITALY

6 D 1,5 SL

Dual Cone

6" | 260 W

Code Z004065

1,5" voice coil Aluminium former
 Dual Cone
 Neodymium Magnet Circuit with Copper Demodulating Ring (CDR)
 93.9 dB sensitivity
 Frequency Range 110-15000 Hz



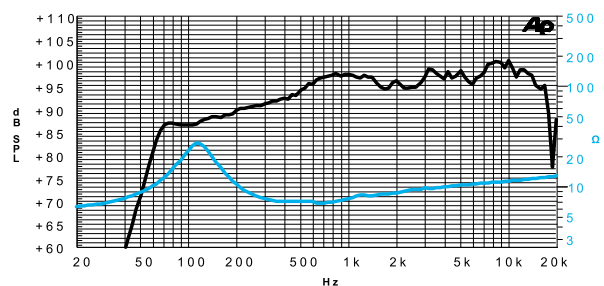
CDR

General Specifications

Nominal Diameter	165 mm / 6 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	130 W		
Continuous Program Power ⁽²⁾	260 W		
Sensitivity @ 1W/1m ⁽³⁾	93.9 dB		
Voice Coil Diameter	38 mm / 1.5 in		
Voice Coil Winding Depth	9 mm		
Magnetic Gap Depth	6 mm		
Flux Density	1.20 T		
Magnet Weight	126 g		
Net Weight	0.9 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.0 Ω	Fs	110.0 Hz
Qms	2.65	Qes	0.55
Qts	0.46	Mms	11.2 g
Cms	187 μm/N	Bxl	8.35 Tm
Vas	4.0 l	Sd	122.7 cm ²
X max ⁽⁵⁾	+/- 1.5 mm	X var ⁽⁶⁾	+/- 4.0 mm
η ₀	0.92%	Le (1KHz)	0.22 mH



Frequency Response on 18 Lt @ 70 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Pressed Sheet Steel
Voice Coil Winding Material	Copper
Voice Coil Former Material	Aluminium
Cone Material	Paper
Cone Treatment	No
Surround Material	Treated Cloth
Dust Dome Material	Treated Cloth

Mounting Information

Overall Diameter	165.5 mm
Baffle Cutout Diameter	143 mm
Mounting Holes	4 holes 5x7 on ø 155 mm
Total Depth	75.6 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

6 D 1,5 CS

6" | 200 W

Code Z004002

Dual Cone

1,5" voice coil Aluminium former

Dual Cone

Ferrite Magnet Circuit with Copper Demodulating Ring (CDR)

91.9 dB sensitivity

Frequency Range 100-18000 Hz



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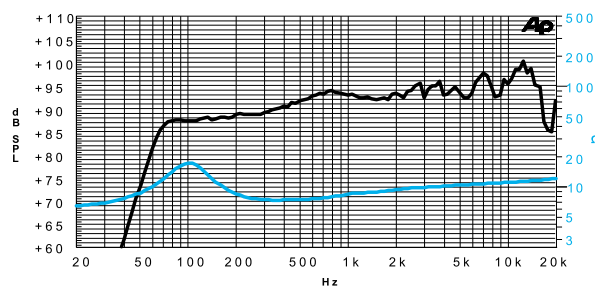
CDR

General Specifications

Nominal Diameter	165 mm / 6 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	100 W		
Continuous Program Power ⁽²⁾	200 W		
Sensitivity @ 1W/1m ⁽³⁾	91.9 dB		
Voice Coil Diameter	38 mm / 1.5 in		
Voice Coil Winding Depth	9 mm		
Magnetic Gap Depth	6 mm		
Flux Density	0.95 T		
Magnet Weight	426 g		
Net Weight	1.4 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.0 Ω	Fs	104.0 Hz
Qms	1.81	Qes	0.80
Qts	0.55	Mms	11.6 g
Cms	202 μm/N	Bxl	6.91 Tm
Vas	4.3 l	Sd	122.7 cm ²
X max ⁽⁵⁾	+/- 1.5 mm	X var ⁽⁶⁾	+/- 4.0 mm
η ₀	0.59%	Le (1KHz)	0.36 mH



Frequency Response on 18 Lt @ 70 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Pressed Sheet Steel
Voice Coil Winding Material	Copper
Voice Coil Former Material	Aluminium
Cone Material	Paper
Cone Treatment	No
Surround Material	Treated Cloth
Dust Dome Material	Treated Cloth

Mounting Information

Overall Diameter	165.5 mm
Baffle Cutout Diameter	143 mm
Mounting Holes	4 holes 7x5 on ø 155 mm
Total Depth	72.1 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

MADE IN ITALY

5,5 H 1,5 CP

Studio Monitor

5,5" | 240 W

Code Z002800



1,5" voice coil Kapton former
 Rubber surround with Double Asymmetric Rolls Technology (DAR)
 Damping Cone Treatment (DT)
 Ferrite Magnet Circuit with Copper Demodulating Ring (CDR)
 Ventilated Magnet to reduce Power Compression (VM)
 86.7 dB sensitivity
 Frequency Range 48-5500 Hz



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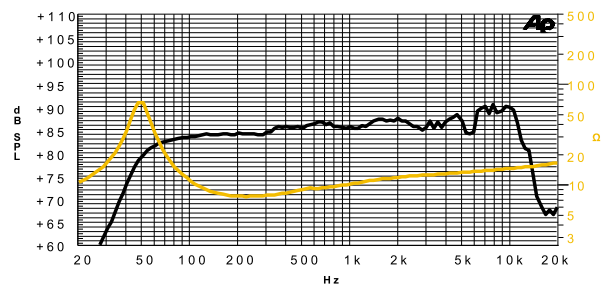


General Specifications

Nominal Diameter	150 mm / 5.5 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	120 W		
Continuous Program Power ⁽²⁾	240 W		
Sensitivity @ 1W/1m ⁽³⁾	86.7 dB		
Voice Coil Diameter	38 mm / 1.5 in		
Voice Coil Winding Depth	15 mm		
Magnetic Gap Depth	6 mm		
Flux Density	0.98 T		
Magnet Weight	515 g		
Net Weight	1.5 kg		

Thiele & Small Parameters⁽⁴⁾

Re	6.1 Ω	Fs	48.5 Hz
Qms	4.15	Qes	0.41
Qts	0.37	Mms	12.0 g
Cms	897 μm/N	Bxl	7.4 Tm
Vas	7.8 l	Sd	78.5 cm ²
X max ⁽⁵⁾	+/- 4.5 mm	X var ⁽⁶⁾	+/- 6.5 mm
η ₀	0.21%	Le (1KHz)	0.53 mH



Frequency Response on 10 Lt @ 55 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Surface Damping Treatment
Surround Material	Rubber
Dust Dome Material	Rubber

Mounting Information

Overall Diameter	148 mm
Baffle Cutout Diameter	113 mm
Mounting Holes	6 holes ø 5 on ø 139 mm
Total Depth	71.5 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

5 N 1,5 PL

Professional

5" | 260 W

Code Z002647

1,5" voice coil Kapton former and Aluminium Winding
 Waterproof Cone Treatment (WpT)
 Neodymium Magnet Circuit
 Ventilated Voice Coil to reduce Power Compression (Vvc)
 91.0 dB sensitivity
 Frequency Range 100-5000 Hz



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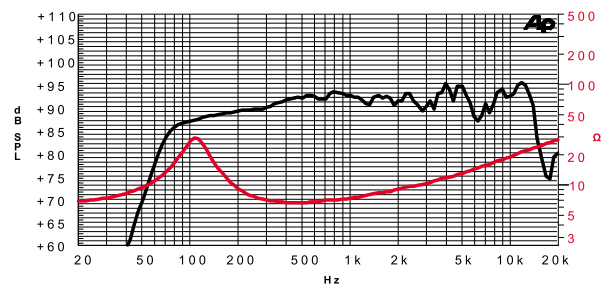


General Specifications

Nominal Diameter	132 mm / 5 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	130 W		
Continuous Program Power ⁽²⁾	260 W		
Sensitivity @ 1W/1m ⁽³⁾	91.0 dB		
Voice Coil Diameter	38 mm / 1.5 in		
Voice Coil Winding Depth	12 mm		
Magnetic Gap Depth	6 mm		
Flux Density	1.14 T		
Magnet Weight	98 g		
Net Weight	0.8 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.7 Ω	Fs	110.6 Hz
Qms	2.55	Qes	0.72
Qts	0.56	Mms	7.1 g
Cms	293 μm/N	Bxl	6.21 Tm
Vas	3.0 l	Sd	84.9 cm ²
X max ⁽⁵⁾	+/- 3.0 mm	X var ⁽⁶⁾	+/- 4.0 mm
η ₀	0.54%	Le (1KHz)	0.31 mH



Frequency Response on 10 Lt @ 75 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Treated Cloth

Mounting Information

Overall Diameter	132 mm
Baffle Cutout Diameter	113 mm
Mounting Holes	4 holes ø 5 on ø 139 mm
Total Depth	72 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.



5 NR 1,5 PL

Professional

5" | 260 W

Code Z002650

1,5" voice coil Kapton former and Aluminium Winding
 Rubber surround with Double Asymmetric Rolls Technology (DAR)
 Waterproof Cone Treatment (WpT)
 Neodymium Magnet Circuit
 Ventilated Voice Coil to reduce Power Compression (VVC)
 90.0 dB sensitivity
 Frequency Range 60-5000 Hz

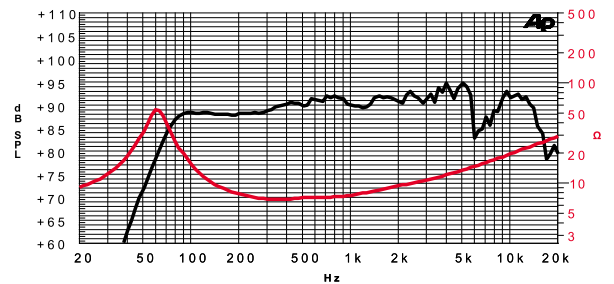


General Specifications

Nominal Diameter	132 mm / 5 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	130 W		
Continuous Program Power ⁽²⁾	260 W		
Sensitivity @ 1W/1m ⁽³⁾	90.0 dB		
Voice Coil Diameter	38 mm / 1.5 in		
Voice Coil Winding Depth	12 mm		
Magnetic Gap Depth	6 mm		
Flux Density	1.14 T		
Magnet Weight	98 g		
Net Weight	0.8 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.6 Ω	Fs	61.0 Hz
Qms	4.10	Qes	0.39
Qts	0.35	Mms	8.0 g
Cms	851 μm/N	Bxl	6.65 Tm
Vas	7.4 l	Sd	78.5 cm ²
X max ⁽⁵⁾	+/- 3.5 mm	X var ⁽⁶⁾	+/- 6.0 mm
η ₀	0.42%	Le (1KHz)	0.34 mH



Frequency Response on 10 Lt @ 75 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Rubber
Dust Dome Material	Treated Cloth

Mounting Information

Overall Diameter	132 mm
Baffle Cutout Diameter	113 mm
Mounting Holes	4 holes ø 5 on ø 139 mm
Total Depth	71 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

5 F 1,5 CP

Professional

5" | 200 W

Code Z002652

1,5" voice coil Kapton former and Aluminium Winding
 Rubber surround with Double Asymmetric Rolls Technology (DAR)
 Waterproof Cone Treatment (WpT)
 Ferrite Magnet Circuit
 Ventilated Voice Coil to reduce Power Compression (VVC)
 90.8 dB sensitivity
 Frequency Range 60-5000 Hz



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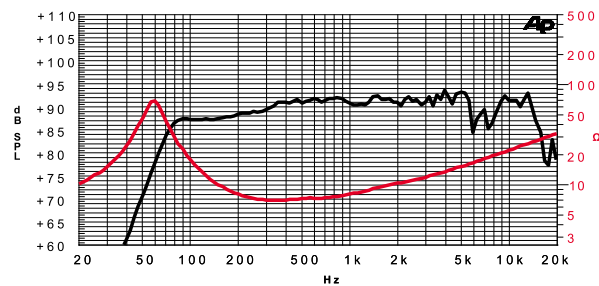


General Specifications

Nominal Diameter	132 mm / 5 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	100 W		
Continuous Program Power ⁽²⁾	200 W		
Sensitivity @ 1W/1m ⁽³⁾	90.8 dB		
Voice Coil Diameter	38 mm / 1.5 in		
Voice Coil Winding Depth	12 mm		
Magnetic Gap Depth	6 mm		
Flux Density	0.98 T		
Magnet Weight	426 g		
Net Weight	1.4 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.6 Ω	Fs	59.0 Hz
Qms	4.32	Qes	0.33
Qts	0.31	Mms	7.6 g
Cms	957 μm/N	Bxl	6.95 Tm
Vas	8.4 l	Sd	78.5 cm ²
X max ⁽⁵⁾	+/- 3.5 mm	X var ⁽⁶⁾	+/- 6.0 mm
η ₀	0.51%	Le (1KHz)	0.48 mH



Frequency Response on 10 Lt @ 75 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Rubber
Dust Dome Material	Treated Cloth

Mounting Information

Overall Diameter	132 mm
Baffle Cutout Diameter	113 mm
Mounting Holes	4 holes ø 5 on ø 139 mm
Total Depth	65.5 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

MADE IN ITALY

5 M 1,5 PL

Midrange

5" | 260 W

Code Z002649

1,5" voice coil Kapton former and Aluminium Winding
 Autoclave Waterproof Cone Treatment (AWpT)
 Neodymium Magnet Circuit with Copper Demodulating Ring (CDR)
 Ventilated Voice Coil to reduce Power Compression (VVC)
 93.7 dB sensitivity
 Frequency Range 150-10000 Hz

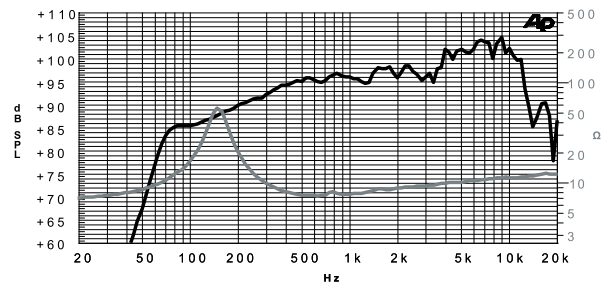


General Specifications

Nominal Diameter	132 mm / 5 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	130 W		
Continuous Program Power ⁽²⁾	260 W		
Sensitivity @ 1W/1m ⁽³⁾	93.7 dB		
Voice Coil Diameter	38 mm / 1.5 in		
Voice Coil Winding Depth	7 mm		
Magnetic Gap Depth	6 mm		
Flux Density	1.20 T		
Magnet Weight	121 g		
Net Weight	0.8 kg		

Thiele & Small Parameters⁽⁴⁾

Re	6.0 Ω	Fs	145.0 Hz
Qms	5.12	Qes	0.56
Qts	0.51	Mms	6.1 g
Cms	197 μm/N	Bxl	7.69 Tm
Vas	2.0 l	Sd	84.9 cm ²
X max ⁽⁵⁾	+/- 1.5 mm	X var ⁽⁶⁾	+/- 2.5 mm
η ₀	1.05%	Le (1KHz)	0.10 mH



Frequency Response on 10 Lt @ 75 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Humidity Resistant Pulp
Surround Material	Treated Cloth
Dust Dome Material	Treated Cloth

Mounting Information

Overall Diameter	132 mm
Baffle Cutout Diameter	113 mm
Mounting Holes	4 holes ø 5 on ø 139 mm
Total Depth	72 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

5 D 1 CS

Dual Cone

5" | 120 W

Code Z002400

1" voice coil Epotex former

Dual Cone

Waterproof Cone Treatment (WpT)

Ferrite Magnet Circuit with Copper Demodulating Ring (CDR)

90.0 dB sensitivity

Frequency Range 80-18000 Hz



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loudspeakers

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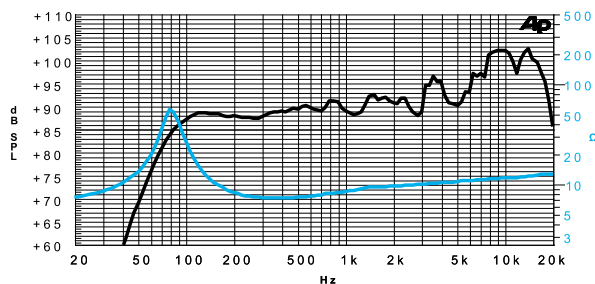


General Specifications

Nominal Diameter	129 mm / 5 in	
Nominal Impedance	8 Ω	
Rated Power AES ⁽¹⁾	60 W	
Continuous Program Power ⁽²⁾	120 W	
Sensitivity @ 1W/1m ⁽³⁾	90.0 dB	
Voice Coil Diameter	25 mm / 1 in	
Voice Coil Winding Depth	9 mm	
Magnetic Gap Depth	6 mm	
Flux Density	0.95 T	
Magnet Weight	280 g	
Net Weight	0.9 kg	

Thiele & Small Parameters⁽⁴⁾

Re	6.0 Ω	Fs	79.0 Hz
Qms	4.95	Qes	0.58
Qts	0.52	Mms	6.4 g
Cms	634 μm/N	Bxl	5.73 Tm
Vas	5.5 l	Sd	78.5 cm ²
X max ⁽⁵⁾	+/- 3.0 mm	X var ⁽⁶⁾	+/- 4.5 mm
η ₀	0.45%	Le (1KHz)	0.33 mH



Frequency Response on 10 Lt @ 75 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Pressed Sheet Steel
Voice Coil Winding Material	Copper
Voice Coil Former Material	Epotex
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Rubber
Dust Dome Material	Non Treated Cloth

Mounting Information

Overall Diameter	130 mm
Baffle Cutout Diameter	113 mm
Mounting Holes	4 holes 4.7x10 on ø 139 mm
Total Depth	58.1 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

MADE IN ITALY

4 L 1 SL

Professional

4" | 120 W

Code Z001449

1" voice coil Epotex former
 Waterproof Cone Treatment (WpT)
 Balanced Neodymium Magnet Circuit (BNd)
 86.2 dB sensitivity
 Frequency Range 110-10000 Hz



66

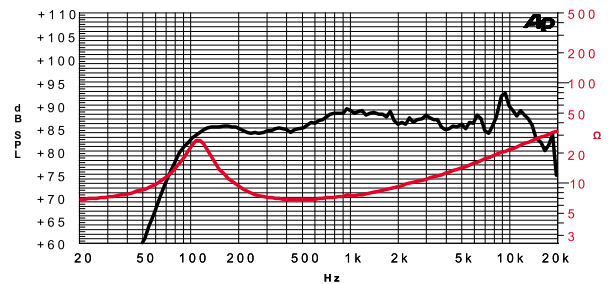


General Specifications

Nominal Diameter	102 mm / 4 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	60 W		
Continuous Program Power ⁽²⁾	120 W		
Sensitivity @ 1W/1m ⁽³⁾	86.2 dB		
Voice Coil Diameter	25 mm / 1 in		
Voice Coil Winding Depth	9 mm		
Magnetic Gap Depth	5 mm		
Flux Density	0.99 T		
Magnet Weight	42 g		
Net Weight	0.2 kg		

Thiele & Small Parameters⁽⁴⁾

Re	6.0 Ω	Fs	108.3 Hz
Qms	3.15	Qes	0.78
Qts	0.63	Mms	5.0 g
Cms	432 μm/N	Bxl	5.10 Tm
Vas	1.2 l	Sd	44.2 cm ²
X max ⁽⁵⁾	+/- 2.4 mm	X var ⁽⁶⁾	+/- 4.0 mm
η ₀	0.19%	Le (1KHz)	0.37 mH



Frequency Response on 5.5 Lt @ 110 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Pressed Sheet Steel
Voice Coil Winding Material	Copper
Voice Coil Former Material	Epotex
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Rubber
Dust Dome Material	Polypropylene Ogive

Mounting Information

Overall Diameter	100 mm
Baffle Cutout Diameter	90 mm
Mounting Holes	4 holes ø 5 on ø 116 mm
Total Depth	46.5 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

4 L1 1 SL

Professional

4" | 140 W

Code Z001804

1" voice coil Aluminium former and Aluminium Winding
 Waterproof Cone Treatment (WpT)
 Neodymium Magnet Circuit
 90.5 dB sensitivity
 Frequency Range 120-10000 Hz

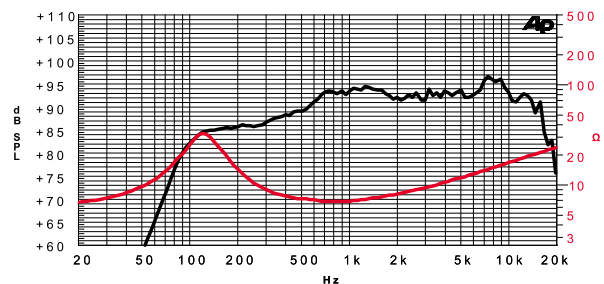


General Specifications

Nominal Diameter	104 mm / 4 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	70 W		
Continuous Program Power ⁽²⁾	140 W		
Sensitivity @ 1W/1m ⁽³⁾	90.5 dB		
Voice Coil Diameter	25 mm / 1 in		
Voice Coil Winding Depth	10 mm		
Magnetic Gap Depth	5 mm		
Flux Density	1.39 T		
Magnet Weight	92 g		
Net Weight	0.4 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.5 Ω	Fs	120.0 Hz
Qms	2.15	Qes	0.44
Qts	0.36	Mms	4.0 g
Cms	440 μm/N	Bxl	6.16 Tm
Vas	1.2 l	Sd	44.2 cm ²
X max ⁽⁵⁾	+/- 2.5 mm	X var ⁽⁶⁾	+/- 4.1 mm
η ₀	0.46%	Le (1KHz)	0.15 mH



Frequency Response on 5.5 Lt @ 110 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Pressed Sheet Steel
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Aluminium
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Polypropylene Ogive

Mounting Information

Overall Dimensions	104x104 mm
Baffle Cutout Diameter	90 mm
Mounting Holes	4 holes ø 5 on ø 106 mm
Total Depth	53.8 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.



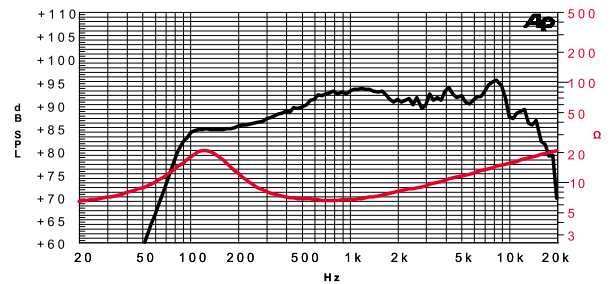
4 E 1 CS

Professional

4" | 140 W

Code Z001800

1" voice coil Aluminium former and Aluminium Winding
 Waterproof Cone Treatment (WpT)
 Ferrite Magnet Circuit
 90.0 dB sensitivity
 Frequency Range 120-10000 Hz



Frequency Response on 5.5 Lt @ 110 Hz Vented Box @ 1W, 1m. Free Air Impedance.

General Specifications

Nominal Diameter	104 mm / 4 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	70 W		
Continuous Program Power ⁽²⁾	140 W		
Sensitivity @ 1W/1m ⁽³⁾	90.0 dB		
Voice Coil Diameter	25 mm / 1 in		
Voice Coil Winding Depth	9 mm		
Magnetic Gap Depth	6 mm		
Flux Density	1.10 T		
Magnet Weight	380 g		
Net Weight	1.0 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.60 Ω	Fs	118.0 Hz
Qms	1.85	Qes	0.49
Qts	0.39	Mms	3.9 g
Cms	466 μm/N	Bxl	5.76 Tm
Vas	1.3 l	Sd	44.2 cm ²
X max ⁽⁵⁾	+/- 2.2 mm	X var ⁽⁶⁾	+/- 3.5 mm
η ₀	0.42%	Le (1KHz)	0.14 mH

Constructive Characteristics

Magnet	Ferrite
Basket Material	Pressed Sheet Steel
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Aluminium
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Treated Cloth
Dust Dome Material	Polypropylene Ogive

Mounting Information

Overall Dimensions	104x104 mm
Baffle Cutout Diameter	90 mm
Mounting Holes	4 holes ø 5 on ø 106 mm
Total Depth	58.3 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

4 D 0,8 CS

Dual Cone

4" | 70 W

Code Z001300

0,8" voice coil Epotex former
Dual Cone
Ferrite Magnet Circuit
87.5 dB sensitivity
Frequency Range 140-20000 Hz



SICA
loudspeakers

69

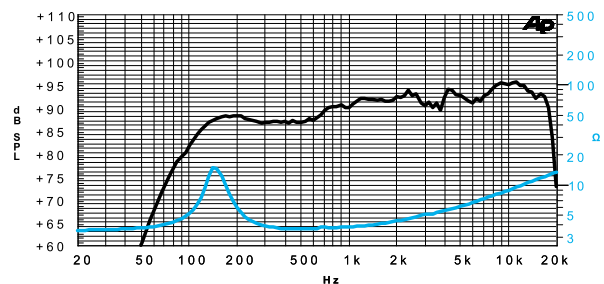
MADE IN ITALY

General Specifications

Nominal Diameter	102 mm / 4 in		
Nominal Impedance	4 Ω		
Rated Power AES ⁽¹⁾	35 W		
Continuous Program Power ⁽²⁾	70 W		
Sensitivity @ 1W/1m ⁽³⁾	87.5 dB		
Voice Coil Diameter	20 mm / 0.8 in		
Voice Coil Winding Depth	5 mm		
Magnetic Gap Depth	4 mm		
Flux Density	1.10 T		
Magnet Weight	154 g		
Net Weight	0.4 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	3.0 Ω	Fs	140.0 Hz
Qms	4.20	Qes	1.18
Qts	0.92	Mms	3.1 g
Cms	416 μm/N	Bxl	2.65 Tm
Vas	1.2 l	Sd	44.2 cm ²
X max ⁽⁵⁾	+/- 1.3 mm	X var ⁽⁶⁾	+/- 3.0 mm
η ₀	0.26%	Le (1KHz)	0.14 mH



Frequency Response on 5.5 Lt @ 110 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Pressed Sheet Steel
Voice Coil Winding Material	Copper
Voice Coil Former Material	Epotex
Cone Material	Paper
Cone Treatment	No
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	100 mm
Baffle Cutout Diameter	90 mm
Mounting Holes	4 holes ø 5 on ø 116 mm
Total Depth	50 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

3,5 L 1 SL

Professional

3,5" | 90 W

Code Z000963

1" voice coil Kapton former
 Waterproof Cone Treatment (WpT)
 Balanced Neodymium Magnet Circuit (BNd)
 Ventilated Voice Coil to reduce Power Compression (VVC)
 88.6 dB sensitivity
 Frequency Range 110-12000 Hz



70

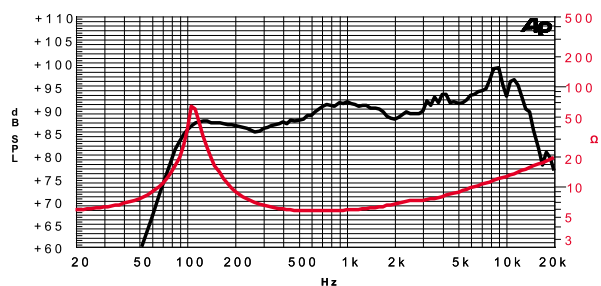


General Specifications

Nominal Diameter	88 mm / 3.5 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	45 W		
Continuous Program Power ⁽²⁾	90 W		
Sensitivity @ 1W/1m ⁽³⁾	88.6 dB		
Voice Coil Diameter	25 mm / 1 in		
Voice Coil Winding Depth	6 mm		
Magnetic Gap Depth	4 mm		
Flux Density	1.20 T		
Magnet Weight	42 g		
Net Weight	0.2 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.0 Ω	Fs	108.0 Hz
Qms	7.83	Qes	0.61
Qts	0.57	Mms	3.3 g
Cms	658 μm/N	Bxl	4.27 Tm
Vas	1.4 l	Sd	38.5 cm ²
X max ⁽⁵⁾	+/- 1.5 mm	X var ⁽⁶⁾	+/- 3.0 mm
η ₀	0.27%	Le (1KHz)	0.12 mH



Frequency Response on 5.5 Lt @ 110 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Nylon Fiberglass Doped
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Rubber
Dust Dome Material	Treated Cloth

Mounting Information

Overall Diameter	88 mm
Baffle Cutout Diameter	81 mm
Mounting Holes	4 holes ø 4 on ø 98 mm
Total Depth	42.2 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

3,5 F 1 CS

Professional

3,5" | 90 W

Code Z000960

1" voice coil Kapton former
Waterproof Cone Treatment (WpT)
Ferrite Magnet Circuit
88.5 dB sensitivity
Frequency Range 110-12000 Hz



SICA
loudspeakers

71

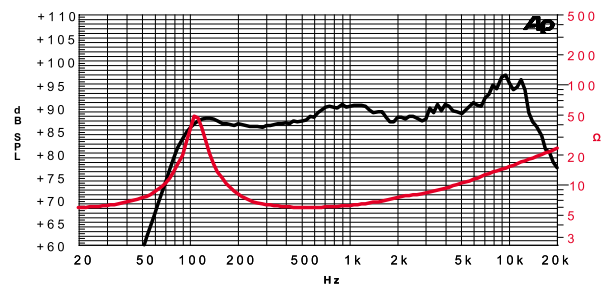


General Specifications

Nominal Diameter	88 mm / 3.5 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	45 W		
Continuous Program Power ⁽²⁾	90 W		
Sensitivity @ 1W/1m ⁽³⁾	88.5 dB		
Voice Coil Diameter	25 mm / 1 in		
Voice Coil Winding Depth	6 mm		
Magnetic Gap Depth	4 mm		
Flux Density	1.04 T		
Magnet Weight	160 g		
Net Weight	0.4 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.0 Ω	Fs	107.0 Hz
Qms	6.52	Qes	0.63
Qts	0.57	Mms	3.3 g
Cms	670 μm/N	Bxl	4.20 Tm
Vas	1.4 l	Sd	38.5 cm ²
X max ⁽⁵⁾	+/- 1.5 mm	X var ⁽⁶⁾	+/- 3.1 mm
η ₀	0.26%	Le (1KHz)	0.21 mH



Frequency Response on 5.5 Lt @ 110 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Nylon Fiberglass Doped
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Surface Waterproof Treatment
Surround Material	Rubber
Dust Dome Material	Treated Cloth

Mounting Information

Overall Diameter	88 mm
Baffle Cutout Diameter	81 mm
Mounting Holes	4 holes ø 4 on ø 98 mm
Total Depth	44.7 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.



MADE IN ITALY

3,5 H 1 CS

Studio Monitor

3,5" | 90 W

Code Z000957



1" voice coil Kapton former
 Damping Cone Treatment (DT)
 Ferrite Magnet Circuit
 Ventilated Voice Coil to reduce Power Compression (VVC)
 86.1 dB sensitivity
 Frequency Range 85-10000 Hz

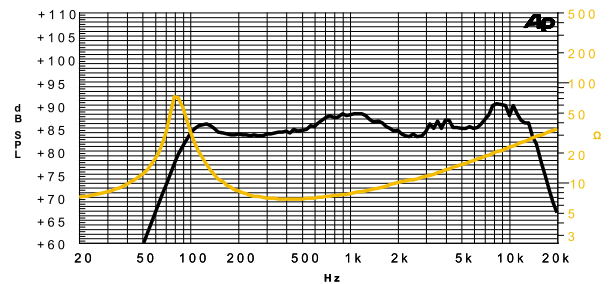


General Specifications

Nominal Diameter	88 mm / 3.5 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	45 W		
Continuous Program Power ⁽²⁾	90 W		
Sensitivity @ 1W/1m ⁽³⁾	86.1 dB		
Voice Coil Diameter	25 mm / 1 in		
Voice Coil Winding Depth	9 mm		
Magnetic Gap Depth	4 mm		
Flux Density	1.04 T		
Magnet Weight	160 g		
Net Weight	0.4 kg		

Thiele & Small Parameters⁽⁴⁾

Re	6.1 Ω	Fs	85.0 Hz
Qms	6.95	Qes	0.57
Qts	0.53	Mms	4.1 g
Cms	855 μm/N	Bxl	4.83 Tm
Vas	1.8 l	Sd	38.5 cm ²
X max ⁽⁵⁾	+/- 2.5 mm	X var ⁽⁶⁾	+/- 4.2 mm
η ₀	0.19%	Le (1KHz)	0.4 mH



Frequency Response on 5.5 Lt @ 110 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Basket Material	Nylon Fiberglass Doped
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Surface Damping Treatment
Surround Material	Rubber
Dust Dome Material	Treated Cloth

Mounting Information

Overall Diameter	88 mm
Baffle Cutout Diameter	81 mm
Mounting Holes	4 holes ø 4 on ø 98 mm
Total Depth	44.7 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

3 L 0,8 SL

Professional

3" | 40 W

Code Z000900

0,8" voice coil Epotex former
Neodymium Magnet Circuit
86.4 dB sensitivity
Frequency Range 150-20000 Hz

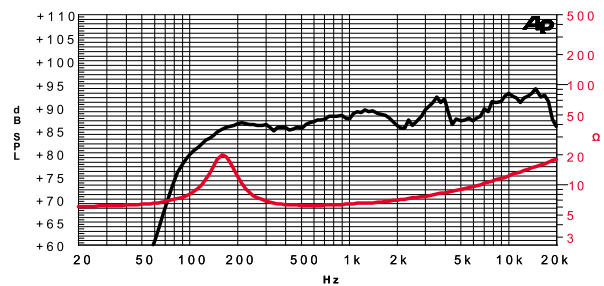


General Specifications

Nominal Diameter	80 mm / 3 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	20 W		
Continuous Program Power ⁽²⁾	40 W		
Sensitivity @ 1W/1m ⁽³⁾	86.4 dB		
Voice Coil Diameter	20 mm / 0.8 in		
Voice Coil Winding Depth	4 mm		
Magnetic Gap Depth	3 mm		
Flux Density	1.30 T		
Magnet Weight	16 g		
Net Weight	0.1 kg		

Thiele & Small Parameters⁽⁴⁾

Re	5.5 Ω	Fs	145.0 Hz
Qms	4.92	Qes	1.28
Qts	1.01	Mms	2.0 g
Cms	602 μm/N	Bxl	2.80 Tm
Vas	0.8 l	Sd	30.2 cm ²
X max ⁽⁵⁾	+/- 1.5 mm	X var ⁽⁶⁾	+/- 2.5 mm
η ₀	0.18%	Le (1KHz)	0.11 mH



Frequency Response on 5.5 Lt @ 110 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Pressed Sheet Steel
Voice Coil Winding Material	Copper
Voice Coil Former Material	Epotex
Cone Material	Paper
Cone Treatment	No
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Diameter	79 mm
Baffle Cutout Diameter	73 mm
Mounting Holes	4 holes ø 4.5 on ø 84 mm
Total Depth	44.9 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

2,5 H 0,8 SL

Studio Monitor

2,5" | 40 W

Code Z000855



0,8" voice coil Kapton former
 Damping Cone Treatment (DT)
 Neodymium Magnet Circuit
 Ventilated Magnet to reduce Power Compression (VM)
 85.6 dB sensitivity
 Frequency Range 180-20000 Hz

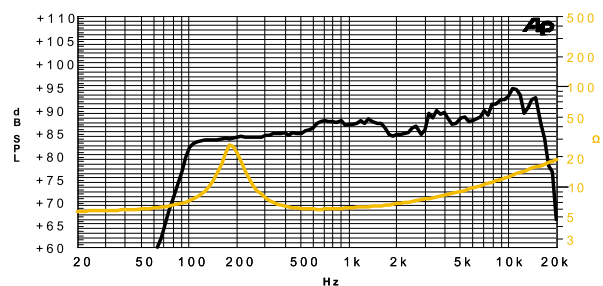


General Specifications

Nominal Diameter	66x66 mm / 2.5 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	20 W		
Continuous Program Power ⁽²⁾	40 W		
Sensitivity @ 1W/1m ⁽³⁾	85.6 dB		
Voice Coil Diameter	20 mm / 0.8 in		
Voice Coil Winding Depth	5 mm		
Magnetic Gap Depth	3 mm		
Flux Density	1.30 T		
Magnet Weight	16 g		
Net Weight	0.1 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.0 Ω	Fs	185.0 Hz
Qms	5.23	Qes	1.11
Qts	0.92	Mms	1.5 g
Cms	493 μm/N	Bxl	2.80 Tm
Vas	0.2 l	Sd	18.9 cm ²
X max ⁽⁵⁾	+/- 1.3 mm	X var ⁽⁶⁾	+/- 2.6 mm
η ₀	1.14%	Le (1KHz)	0.12 mH



Frequency Response on 5.5 Lt @ 110 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Pressed Sheet Steel
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Surface Damping Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Dimensions	66x66 mm
Baffle Cutout Diameter	61 mm
Mounting Holes	4 holes 4.5x6 on ø 75.5 mm
Total Depth	36.6 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

2 H 0,8 SL

Studio Monitor

2" | 40 W

Code Z000795

0,8" voice coil Kapton former and Aluminium Winding
 Damping Cone Treatment (DT)
 Neodymium Magnet Circuit
 Ventilated Magnet to reduce Power Compression (VM)
 84.1 dB sensitivity
 Frequency Range 200-20000 Hz

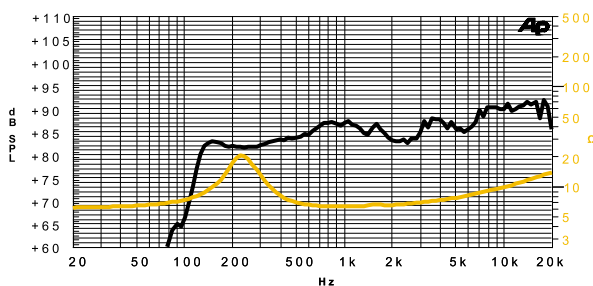


General Specifications

Nominal Diameter	53x53 mm / 2 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	20 W		
Continuous Program Power ⁽²⁾	40 W		
Sensitivity @ 1W/1m ⁽³⁾	84.1 dB		
Voice Coil Diameter	20 mm / 0.8 in		
Voice Coil Winding Depth	4 mm		
Magnetic Gap Depth	3 mm		
Flux Density	1.30 T		
Magnet Weight	16 g		
Net Weight	0.1 kg		

Thiele & Small Parameters ⁽⁴⁾

Re	5.5 Ω	Fs	216.0 Hz
Qms	2.75	Qes	1.00
Qts	0.81	Mms	0.9 g
Cms	603 μm/N	Bxl	2.60 Tm
Vas	0.1 l	Sd	11.3 cm ²
X max ⁽⁵⁾	+/- 1.4 mm	X var ⁽⁶⁾	+/- 2.7 mm
η ₀	0.11%	Le (1KHz)	0.20 mH



Frequency Response on 5.5 Lt @ 130 Hz Vented Box @ 1W, 1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Basket Material	Nylon Fiberglass Doped
Voice Coil Winding Material	Aluminium
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	Surface Damping Treatment
Surround Material	Treated Cloth
Dust Dome Material	Solid Paper

Mounting Information

Overall Dimensions	52.5x52.5 mm
Baffle Cutout Diameter	48 mm
Mounting Holes	4 holes ø 3.2 on ø 61.5 mm
Total Depth	32.5 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.



Coaxial

CX

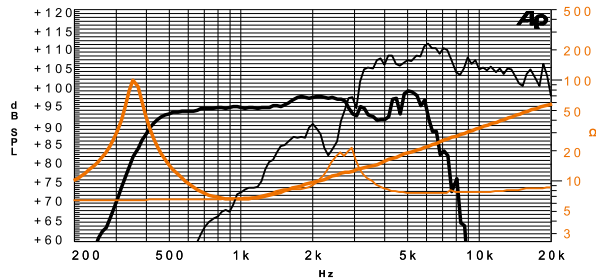
12 Cx 3 CP

Coaxial

12" | 800 W

Code Z007996

LF 3" Sandwich voice coil Fiberglass former (SNDW)
 HF Titanium dome 1,7" voice coil Flat Aluminium wire (TD)
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 Waterproof Cone Treatment (WpT)
 Ferrite Magnet Circuit
 60° x 40° coverage horn
 98.0 dB sensitivity
 Frequency Range 50-20000 Hz



Frequency Response on 45 Lt @ 55 Hz Vented Box @ 1W, 1m. Free Air Impedance.

General Specifications	LF unit	HF unit	
Nominal Diameter	321 mm / 12 in		
Nominal Impedance	8 Ω	8 Ω	
Rated Power AES ⁽¹⁾	400 W	60 W	
Continuous Program Power ⁽²⁾	800 W	120 W	
Sensitivity @ 1W/1m ⁽³⁾	98.0 dB	106.2 dB	
Voice Coil Diameter	75 mm / 3 in	44 mm / 1.7 in	
Voice Coil Winding Depth	15 mm	2.6 mm	
Magnetic Gap Depth	10 mm	3 mm	
HF Recomm. Crossover Frequency		1.6 kHz	
Magnet Weight	2700 g		
Net Weight	8.3 kg		
Thiele & Small Parameters ⁽⁴⁾			
Re (LF)	5.0 Ω	Fs (LF)	49.0 Hz
Re (HF)	6.0 Ω	Fs (HF)	1100 Hz
Qms	7.21	Qes	0.35
Qts	0.33	Mms	58.0 g
Cms	182 μm/N	Bxl	16.03 Tm
Vas	72.8 l	Sd	530.9 cm ²
X max ⁽⁵⁾	+/- 4.5 mm	X var ⁽⁶⁾	+/- 8.0 mm
η ₀	2.38%	Le (1kHz)	1.02 mH

Constructive Characteristics

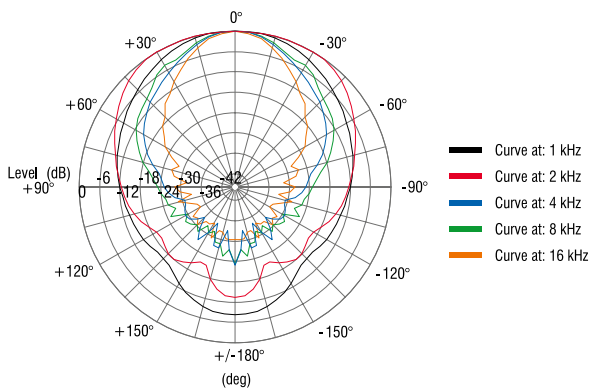
Magnet	Ferrite
Basket Material	Aluminium Die-Cast
LF Voice Coil Winding/Former Material	Copper / Fiberglass
HF Voice Coil Winding/Former Material	Aluminium Flat Wire / Kapton
LF Cone Material	Paper
HF Dome Material	Titanium
Surround Material	Treated Cloth
HF Spare Part Code	Z009395

Mounting Information

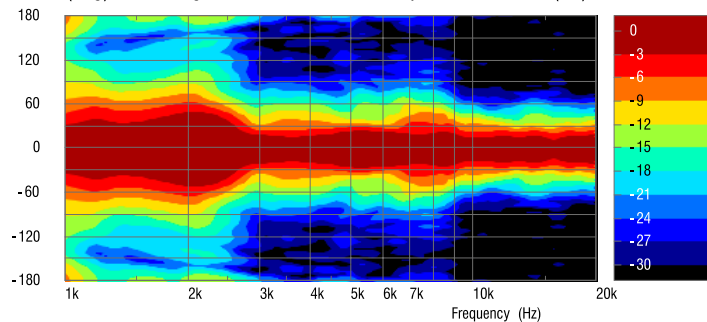
Overall Diameter	320 mm
Baffle Cutout Diameter	284 mm
Mounting Holes	8 holes 6x9 on ø 301 mm
Total Depth	167.3 mm



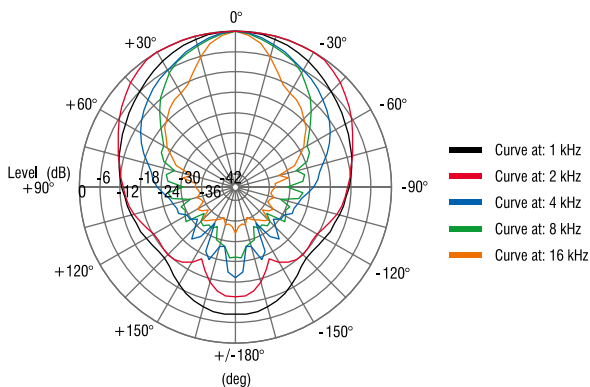
Z007996 - Horizontal Directivity



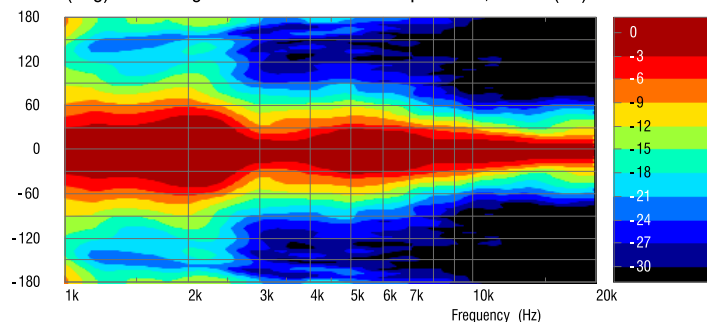
(deg) Polar angle Sound pressure, Level (dB)



Z007996 - Vertical Directivity



(deg) Polar angle Sound pressure, Level (dB)



(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

12 C 2,5 CP

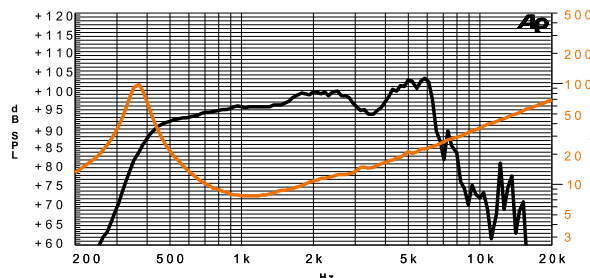
12" | 600 W

Code Z007857

Coaxial Woofer

2,5" voice coil Kapton former
 Cloth surround with Double Asymmetric Rolls Technology (DAR)
 1" throath diameter for Compression Driver
 60° coverage Aluminium horn for Compression Driver
 Ferrite Magnet Circuit
 Possibility to use different Compression Drivers
 98.6 dB sensitivity
 Frequency Range 55-3500 Hz

DAR



Frequency Response on 45 Lt @ 55 Hz Vented Box @ 1W, 1m. Free Air Impedance.

General Specifications

Nominal Diameter	321 mm / 12 in	
Nominal Impedance	8 Ω	
Rated Power AES ⁽¹⁾	300 W	
Continuous Program Power ⁽²⁾	600 W	
Sensitivity @ 1W/1m ⁽³⁾	98.6 dB	
Voice Coil Diameter	65 mm / 2.5 in	
Voice Coil Winding Depth	16 mm	
Magnetic Gap Depth	8 mm	
Flux Density	1.30 T	
Magnet Weight	1450 g	
Net Weight	5.0 kg	

Thiele & Small Parameters⁽⁴⁾

Re	6.2 Ω	Fs	50.5 Hz
Qms	8.85	Qes	0.31
Qts	0.30	Mms	47.0 g
Cms	211 μm/N	Bxl	17.30 Tm
Vas	84.5 l	Sd	530.9 cm ²
X max ⁽⁵⁾	+/- 5.0 mm	X var ⁽⁶⁾	+/- 8.5 mm
η ₀	3.40%	Le (1KHz)	1.12 mH

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	No
Surround Material	Treated Cloth
Dust Dome Material	None

Mounting Information

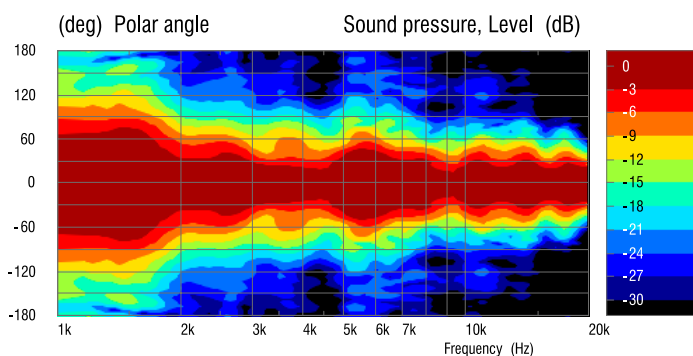
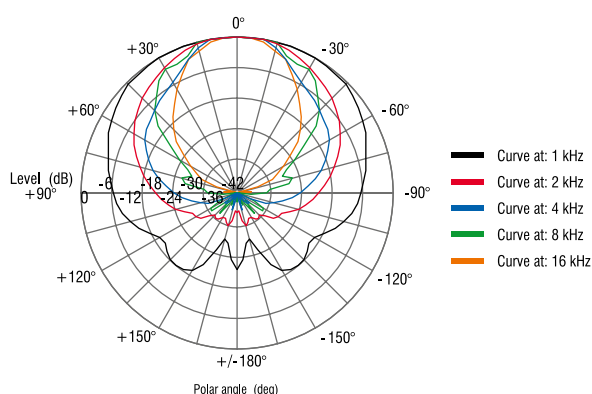
Overall Diameter	320 mm
Baffle Cutout Diameter	284 mm
Mounting Holes	8 holes 6x9 on ø 301 mm
Total Depth	132.3 mm
Throath Diameter for Compression Driver	25.4 mm
Compression Driver Mounting Holes	4 holes M4 on ø 95 mm 4 holes M5 on ø 129 mm with adapter Q07310A

SICA
 loudspeakers

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MADE IN ITALY

Z007857 - Directivity



Coaxial woofer 12 C 2,5 CP can be used with SICA compression drivers
 CD 95.44 / N240 (pag 93), CD 60.38 / N92 (pag 95), CD 83.26 / 380 (pag 96),
 CD 78.26 / N92 (pag 96), CD 78.26 / 245 (pag 97).

Compression drivers CD 120.44 / 640 (pag 94) and CD 90.38/405 (pag 95)
 can be used with coaxial woofer 12 C 2,5 CP thanks to the adapter Q07310A.

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

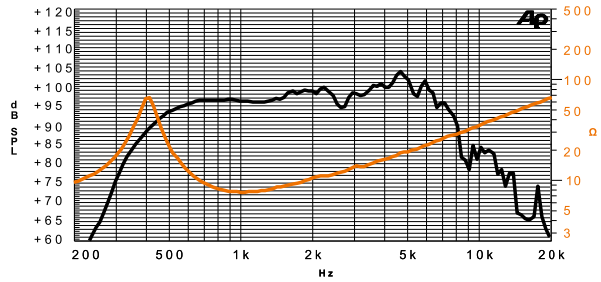
12 C 2 CP

Coaxial Woofer

12" | 400 W

Code Z007852

- 2" voice coil Kapton former
- Cloth surround with Double Asymmetric Rolls Technology (DAR)
- 1" throat diameter for Compression Driver
- Front-loaded perforated horn to improve the coupling with the woofer
- Ferrite Magnet Circuit
- Possibility to use different Compression Drivers
- 98.0 dB sensitivity
- Frequency Range 60-3500 Hz



Frequency Response on 45 Lt @ 55 Hz Vented Box @ 1W, 1m. Free Air Impedance.

General Specifications			
Nominal Diameter	320 mm / 12 in		
Nominal Impedance	8 Ω		
Rated Power AES (1)	200 W		
Continuous Program Power (2)	400 W		
Sensitivity @ 1W/1m (3)	98.0 dB		
Voice Coil Diameter	50 mm / 2 in		
Voice Coil Winding Depth	14 mm		
Magnetic Gap Depth	8 mm		
Flux Density	1.08 T		
Magnet Weight	1100 g		
Net Weight	3.8 kg		
Thiele & Small Parameters (4)			
Re	6.2 Ω	Fs	58.4 Hz
Qms	5.60	Qes	0.49
Qts	0.45	Mms	40.0 g
Cms	186 μm/N	Bxl	13.70 Tm
Vas	74.3 l	Sd	530.9 cm ²
X max (5)	+/- 4.5 mm	X var (6)	+/- 7.0 mm
η ₀	2.91%	Le (1KHz)	0.83 mH

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	No
Surround Material	Treated Cloth
Dust Dome Material	None

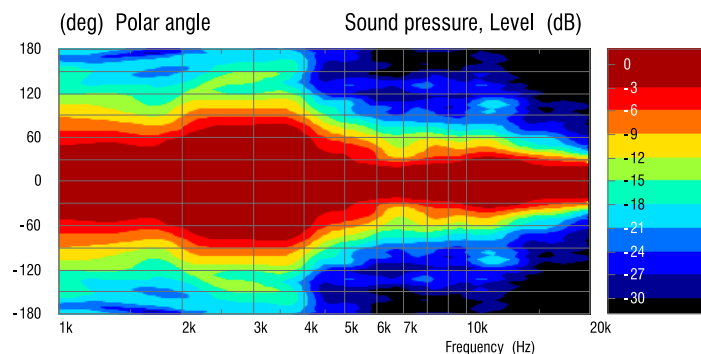
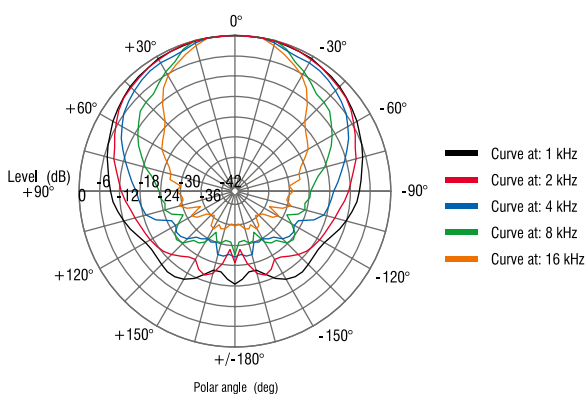
Mounting Information

Overall Diameter	320 mm
Baffle Cutout Diameter	284 mm
Mounting Holes	8 holes 6x9 on ø 301 mm
Total Depth	130.4 mm
Throat Diameter for Compression Driver	25.4 mm
Compression Driver Mounting Holes	4 holes M4 on ø 95 mm



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Z007852 - Directivity



Coaxial woofer 12 C 2 CP can be used with SICA compression drivers
 CD 95.44 / N240 (pag 93), CD 60.38 / N92 (pag 95), CD 83.26 / 380 (pag 96),
 CD 78.26 / N92 (pag 96), CD 78.26 / 245 (pag 97).

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.



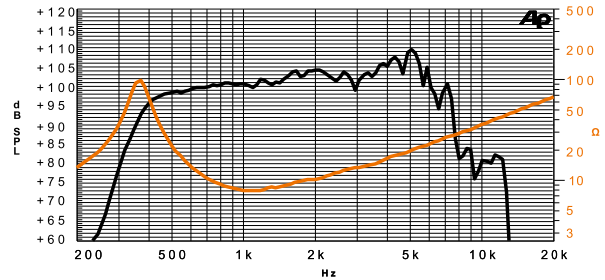
10 C 2 CP

10" | 400 W

Code **Z006781**

Coaxial Woofer

- 2" voice coil Kapton former
- Cloth surround with Double Asymmetric Rolls Technology (DAR)
- 1" throat diameter for Compression Driver
- Front-loaded perforated horn to improve the coupling with the woofer
- Ferrite Magnet Circuit
- Possibility to use different Compression Drivers
- 96.9 dB sensitivity
- Frequency Range 55-3500 Hz



Frequency Response on 35 Lt @ 60 Hz Vented Box @ 1W, 1m. Free Air Impedance.

General Specifications

Nominal Diameter	268 mm / 10 in	
Nominal Impedance	8 Ω	
Rated Power AES ⁽¹⁾	200 W	
Continuous Program Power ⁽²⁾	400 W	
Sensitivity @ 1W/1m ⁽³⁾	96.9 dB	
Voice Coil Diameter	50 mm / 2 in	
Voice Coil Winding Depth	14 mm	
Magnetic Gap Depth	8 mm	
Flux Density	1.08 T	
Magnet Weight	1100 g	
Net Weight	3.5 kg	

Thiele & Small Parameters⁽⁴⁾

Re	6.2 Ω	Fs	50.0 Hz
Qms	4.71	Qes	0.33
Qts	0.31	Mms	27.3 g
Cms	371 μm/N	Bxl	12.70 Tm
Vas	63.2 l	Sd	346.4 cm ²
X max ⁽⁵⁾	+/- 4.0 mm	X var ⁽⁶⁾	+/- 7.0 mm
η ₀	2.31%	Le (1KHz)	0.81 mH

Constructive Characteristics

Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	No
Surround Material	Treated Cloth
Dust Dome Material	None

Mounting Information

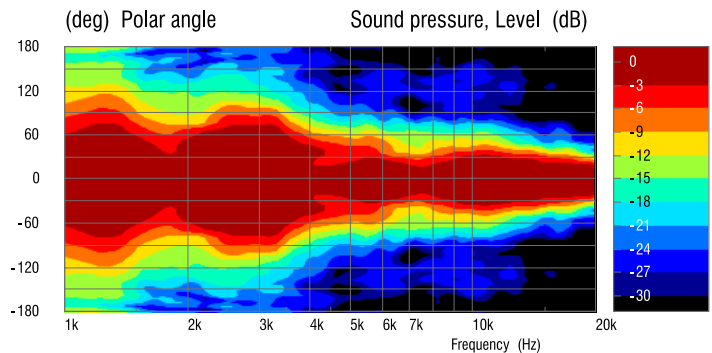
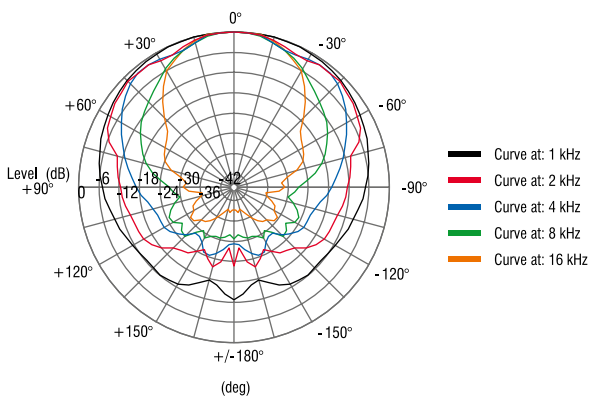
Overall Diameter	268 mm
Baffle Cutout Diameter	232 mm
Mounting Holes	8 holes 6x9 on ø 247 mm
Total Depth	111.5 mm
Throat Diameter for Compression Driver	25.4 mm
Compression Driver Mounting Holes	4 holes M4 on ø 95 mm



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Z006781- Directivity



Coaxial woofer 10 C 2 CP can be used with SICA compression drivers
 CD 95.44 / N240 (pag 93), CD 60.38 / N92 (pag 95), CD 83.26 / 380 (pag 96),
 CD 78.26 / N92 (pag 96), CD 78.26 / 245 (pag 97).

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.

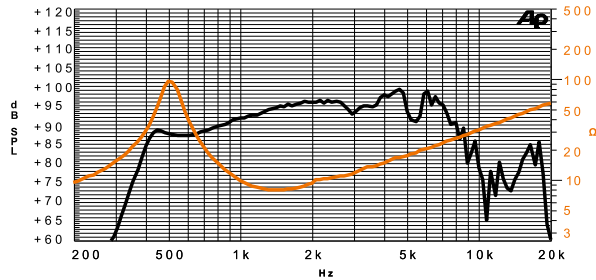
8 C 2 CP

8" | 400 W

Code Z005061

Coaxial Woofer

- 2" voice coil Kapton former
- Cloth surround with Double Asymmetric Rolls Technology (DAR)
- 1" throat diameter for Compression Driver
- Front-loaded perforated horn to improve the coupling with the woofer
- Ferrite Magnet Circuit
- Possibility to use different Compression Drivers
- 96.7 dB sensitivity
- Frequency Range 80-4500 Hz



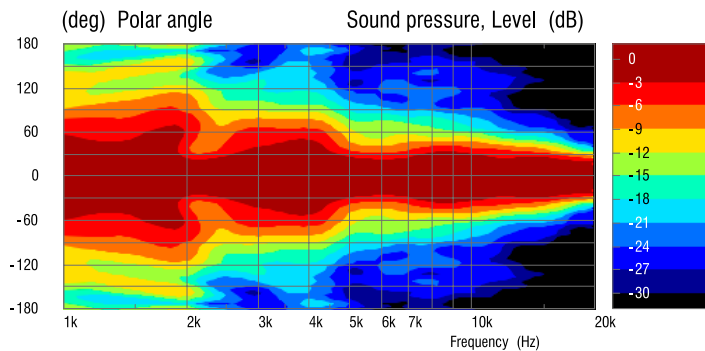
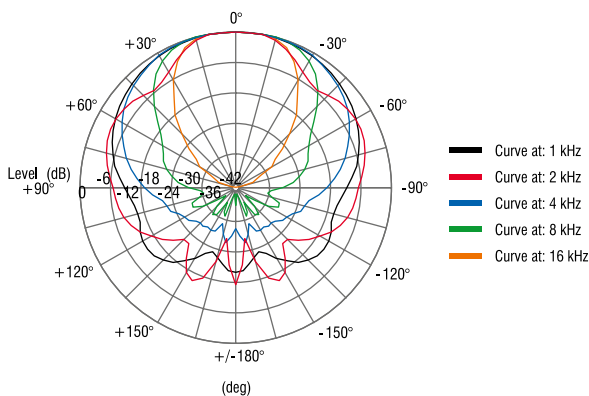
Frequency Response on 25 Lt @ 65 Hz Vented Box @ 1W, 1m. Free Air Impedance.

General Specifications			
Nominal Diameter	210 mm / 8 in		
Nominal Impedance	8 Ω		
Rated Power AES ⁽¹⁾	200 W		
Continuous Program Power ⁽²⁾	400 W		
Sensitivity @ 1W/1m ⁽³⁾	96.7 dB		
Voice Coil Diameter	50 mm / 2 in		
Voice Coil Winding Depth	14 mm		
Magnetic Gap Depth	8 mm		
Flux Density	1.08 T		
Magnet Weight	1100 g		
Net Weight	3.0 kg		
Thiele & Small Parameters ⁽⁴⁾			
Re	6.1 Ω	Fs	78.5 Hz
Qms	4.55	Qes	0.32
Qts	0.30	Mms	18.2 g
Cms	226 μm/N	Bxl	13.50 Tm
Vas	14.7 l	Sd	213.8 cm ²
X max ⁽⁵⁾	+/- 3.5 mm	X var ⁽⁶⁾	+/- 7.0 mm
η ₀	2.14%	Le (1KHz)	0.80 mH

Constructive Characteristics	
Magnet	Ferrite
Basket Material	Aluminium Die-Cast
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Cone Material	Paper
Cone Treatment	No
Surround Material	Treated Cloth
Dust Dome Material	None
Mounting Information	
Overall Diameter	210 mm
Baffle Cutout Diameter	184 mm
Mounting Holes	4 holes 5.5x7.5 on ø 196 mm
Total Depth	90.0 mm
Throat Diameter for Compression Driver	25.4 mm
Compression Driver Mounting Holes	4 holes M4 on ø 95 mm



Z005061 - Directivity



Coaxial woofer 8 C 2 CP can be used with SICA compression drivers
 CD 95.44 / N240 (pag 93), CD 60.38 / N92 (pag 95), CD 83.26 / 380 (pag 96),
 CD 78.26 / N92 (pag 96), CD 78.26 / 245 (pag 97).

1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Calculated by Thiele & Small parameters, for SPL average in box refer to frequency response. (4) Thiele & Small parameters measured with laser system after preconditioning test. (5) Measured with respect to a THD of 10%. (6) Value corresponding to a decay of the Force Factor, or Compliance, or both, equal to the 50% of the small signal value.



DOME

Tweeter



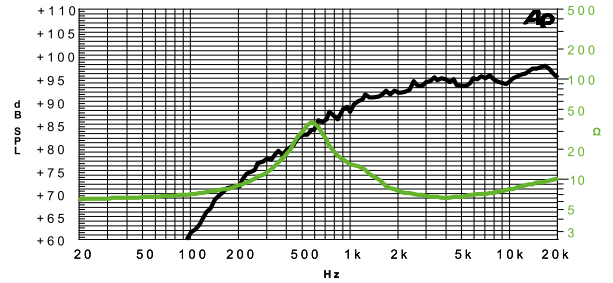
LP 90.28 / N92 TW

Dome Tweeter

1,1" | 120 W

Code Z009160

1,1" voice coil Aluminium former and Aluminium Flat Wire (AIFW)
 Treated Silk dome with Additional Damping Treatment (TSDD)
 Cooling radiator to reduce Power Compression (CRd)
 Neodymium Magnet Circuit with Damping Material inside (DM)
 Low resonance, 600 Hz (LFs)
 Damped rear chamber
 94.4 dB sensitivity



Frequency Response on IEC Baffle (DIN 45575) @ 1W,1m. Free Air Impedance.

General Specifications

Nominal Diameter	90 mm
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾ (2000 - 20000 Hz)	25 W
Continuous Program Power ⁽²⁾	50 W
Rated Noise Power (IEC 60268-5) ⁽³⁾	120 W
Sensitivity @ 1W/1m ⁽⁴⁾	94.4 dB
Voice Coil Diameter	28 mm / 1.1 in
Voice Coil Winding Depth	2.7 mm
Magnetic Gap Depth	3.0 mm
Flux Density	1.80 T
DC Resistance	6.0 Ω
Resonance Frequency	0.6 kHz
Magnet Weight	92 g
Net Weight	0.41 kg
Recommended Crossover Frequency	1.5 kHz

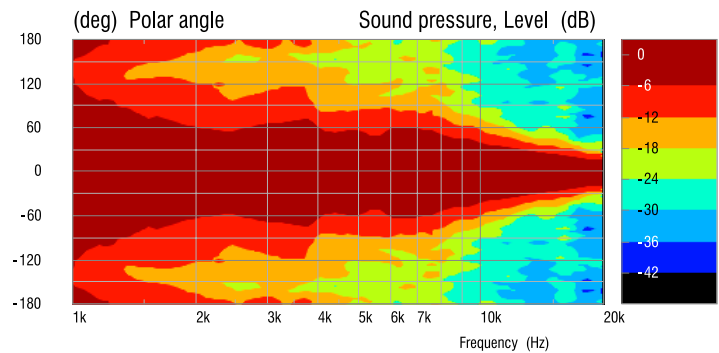
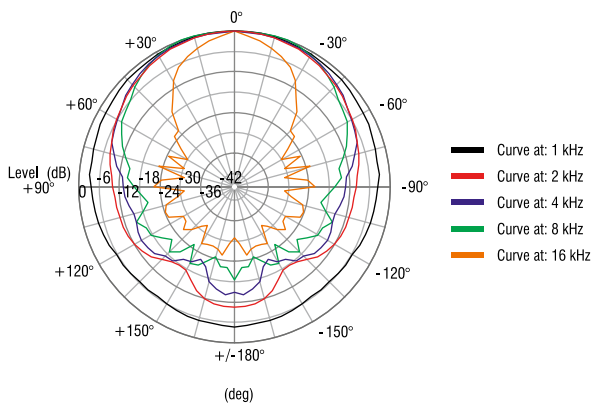
Constructive Characteristics

Magnet	Neodymium
Voice Coil Winding Material	Aluminium Flat Wire
Voice Coil Former Material	Aluminium
Diaphragm	Treated Silk
Ferrofluid in Air Gap	No
Flange	Aluminium
Spare Part Code	Z009405

Mounting Information

Overall Diameter	90 mm
Baffle Cutout Diameter	67 mm
Mounting Holes	4 holes ø 4.5 on ø 80 mm
Total Depth	37.5 mm

Z009160 - Directivity



MADE IN ITALY

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Rated Noise Power measured with 100 hours test pink noise, 6 dB crest factor IFC60268-5 filtering. (4) Measured at 1W, 1m in axis within the frequency range.

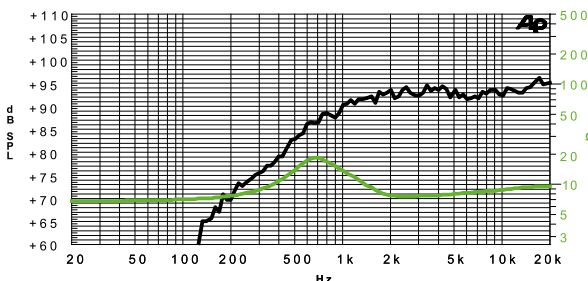
LP 110.28 / 380 TW

Dome Tweeter

1,1" | 120 W

Code Z009240

1,1" voice coil Aluminium former and Aluminium Flat Wire (AIFW)
 Treated Silk dome with Additional Damping Treatment (TSDD)
 Ferrite Magnet Circuit with Copper Demodulating Ring (CDR)
 Low resonance, 650 Hz (LFs)
 Damped rear chamber
 93.3 dB sensitivity



Frequency Response on IEC Baffle (DIN 45575) @ 1W,1m. Free Air Impedance.

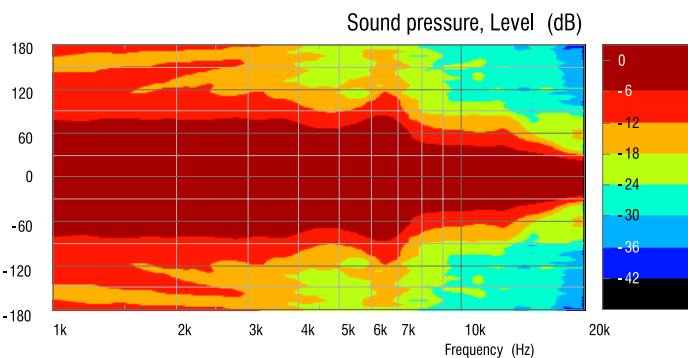
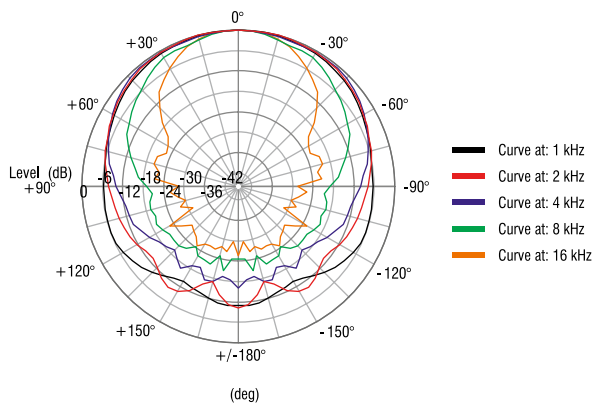
General Specifications

Nominal Diameter	110 mm
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾ (2000 - 20000 Hz)	25 W
Continuous Program Power ⁽²⁾	50 W
Rated Noise Power (IEC 60268-5) ⁽³⁾	120 W
Sensitivity @ 1W/1m ⁽³⁾	93.3 dB
Voice Coil Diameter	28 mm / 1.1 in
Voice Coil Winding Depth	2.7 mm
Magnetic Gap Depth	3 mm
Flux Density	1.28 T
DC Resistance	6.0 Ω
Resonance Frequency	0.65 kHz
Magnet Weight	380 g
Net Weight	0.80 kg
Recommended Crossover Frequency	1.5 kHz

Constructive Characteristics

Magnet	Ferrite
Voice Coil Winding Material	Aluminium Flat Wire
Voice Coil Former Material	Aluminium
Diaphragm	Treated Silk
Ferrofluid in Air Gap	No
Flange	Aluminium
Spare Part Code	Z009410
Mounting Information	
Overall Diameter	110 mm
Baffle Cutout Diameter	88 mm
Mounting Holes	4 holes ø 4.5 on ø 98 mm
Total Depth	49.6 mm

Z009240 - Directivity



(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Rated Noise Power measured with 100 hours test pink noise, 6 dB crest factor IFC60268-5 filtering. (4) Measured at 1W, 1m in axis within the frequency range.

LP 53x58.28 / N20 TW

1,1" | 80 W

Code Z008985

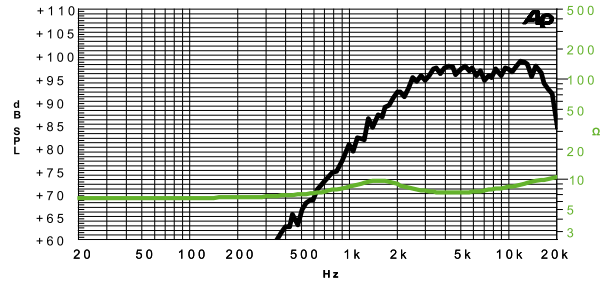
1,1" voice coil Aluminium former and Aluminium Flat Wire (AIFW)
Treated Silk dome (TSD)
Ferrofluid in Air Gap (FF)
Neodymium Magnet Circuit
95.8 dB sensitivity



General Specifications

Nominal Dimensions	53x58 mm
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾ (2500 - 20000 Hz)	20 W
Continuous Program Power ⁽²⁾	40 W
Rated Noise Power (IEC 60268-5) ⁽³⁾	80 W
Sensitivity @ 1W/1m ⁽⁴⁾	95.8 dB
Voice Coil Diameter	28 mm / 1.1 in
Voice Coil Winding Depth	2.7 mm
Magnetic Gap Depth	2.0 mm
Flux Density	1.37 T
DC Resistance	6.0 Ω
Resonance Frequency	1.5 kHz
Magnet Weight	20 g
Net Weight	0.08 kg
Recommended Crossover Frequency	2.5 kHz

Dome Tweeter



Frequency Response on IEC Baffle (DIN 45575) @ 1W,1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Voice Coil Winding Material	Aluminium Flat Wire
Voice Coil Former Material	Aluminium
Diaphragm	Treated Silk
Ferrofluid in Air Gap	Yes
Flange	Nylon Fiberglass Doped
Spare Part Code	-

Mounting Information

Overall Dimensions	53x58 mm
Baffle Cutout Diameter	49 mm
Mounting Holes	4 holes ø 3.8 on ø 62.3 mm
Total Depth	23.9 mm

LP 111.25 / 245 TW

1" | 120 W

Code Z009215

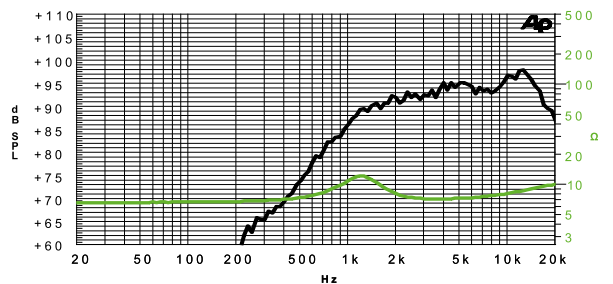
1" voice coil Aluminium former
Treated Silk Dome (TSD)
Ferrofluid in Air Gap (FF)
Ferrite Magnet Circuit
95.1 dB sensitivity



General Specifications

Nominal Diameter	110 mm
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾ (2500 - 20000 Hz)	25 W
Continuous Program Power ⁽²⁾	50 W
Rated Noise Power (IEC 60268-5) ⁽³⁾	120 W
Sensitivity @ 1W/1m ⁽⁴⁾	95.1 dB
Voice Coil Diameter	25 mm / 1 in
Voice Coil Winding Depth	1.7 mm
Magnetic Gap Depth	2.0 mm
Flux Density	1.70 T
DC Resistance	6.0 Ω
Resonance Frequency	1.2 kHz
Magnet Weight	245 g
Net Weight	0.60 kg
Recommended Crossover Frequency	2.5 kHz

Dome Tweeter



Frequency Response on IEC Baffle (DIN 45575) @ 1W,1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Voice Coil Winding Material	Copper
Voice Coil Former Material	Aluminium
Diaphragm	Treated Silk
Ferrofluid in Air Gap	Yes
Flange	ABS
Spare Part Code	Z009402

Mounting Information

Overall Diameter	110 mm
Baffle Cutout Diameter	84 mm
Mounting Holes	4 holes ø 4.5 on ø 98 mm
Total Depth	32.9 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Rated Noise Power measured with 100 hours test pink noise, 6 dB crest factor IFC60268-5 filtering. (4) Measured at 1W, 1m in axis within the frequency range.

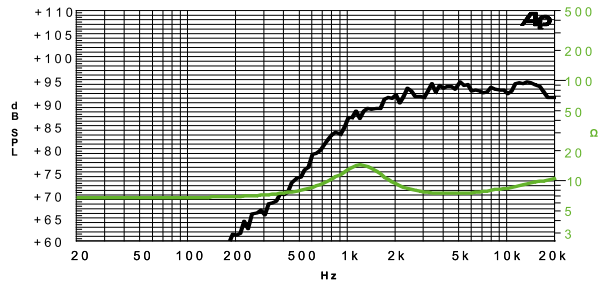
LP 98.25 / 245 TW

Dome Tweeter

1" | 120 W

Code Z009170

1" voice coil Aluminium former
 Treated Silk dome with Additional Damping Treatment (TSDD)
 Ferrofluid in Air Gap (FF)
 Ferrite Magnet Circuit
 93.1 dB sensitivity



Frequency Response on IEC Baffle (DIN 45575) @ 1W,1m. Free Air Impedance.

General Specifications

Nominal Diameter	98 mm
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾ (2500 - 20000 Hz)	25 W
Continuous Program Power ⁽²⁾	50 W
Rated Noise Power (IEC 60268-5) ⁽³⁾	120 W
Sensitivity @ 1W/1m ⁽⁴⁾	93.1 dB
Voice Coil Diameter	25 mm / 1 in
Voice Coil Winding Depth	1.7 mm
Magnetic Gap Depth	2.0 mm
Flux Density	1.70 T
DC Resistance	6.0 Ω
Resonance Frequency	1.2 kHz
Magnet Weight	245 g
Net Weight	0.60 kg
Recommended Crossover Frequency	2.5 kHz

Constructive Characteristics

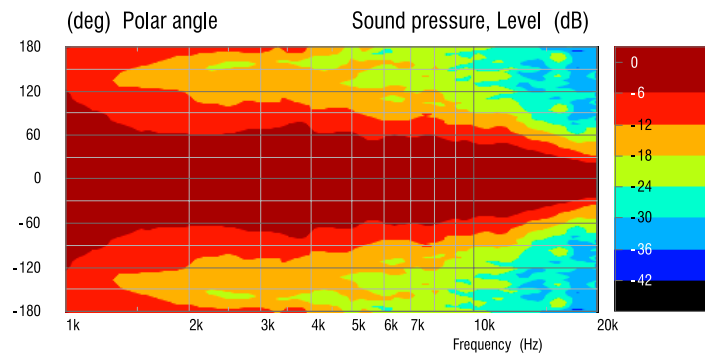
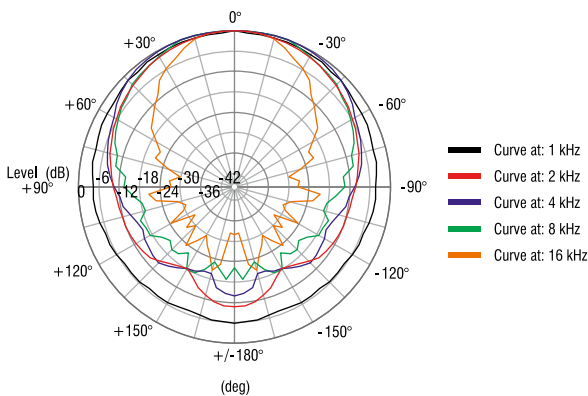
Magnet	Ferrite
Voice Coil Winding Material	Copper
Voice Coil Former Material	Aluminium
Diaphragm	Treated Silk
Ferrofluid in Air Gap	Yes
Flange	Aluminium
Spare Part Code	Z009407

Mounting Information

Overall Diameter	98 mm
Baffle Cutout Diameter	78 mm
Mounting Holes	4 holes ø 4.5 on ø 87.5 mm
Total Depth	32.4 mm



Z009170 - Directivity



(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Rated Noise Power measured with 100 hours test pink noise, 6 dB crest factor IFC60268-5 filtering. (4) Measured at 1W, 1m in axis within the frequency range.

LP 66.25 / N14 TW

1" | 70 W

Code Z008950

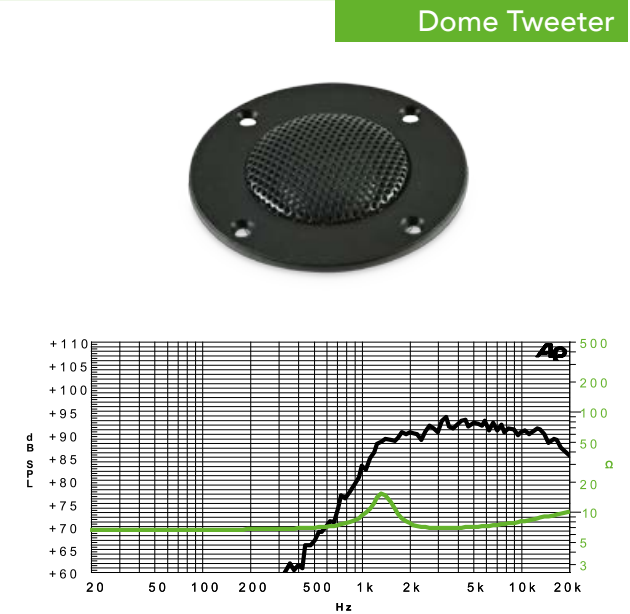
1" voice coil Aluminium former
Treated Silk Dome (TSD)
Ferrofluid in Air Gap (FF)
Neodymium Magnet Circuit
90.7 dB sensitivity

TSD

FF

General Specifications

Nominal Diameter	66 mm
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾ (3000 - 20000 Hz)	17 W
Continuous Program Power ⁽²⁾	34 W
Rated Noise Power (IEC 60268-5) ⁽³⁾	70 W
Sensitivity @ 1W/1m ⁽⁴⁾	90.7 dB
Voice Coil Diameter	25 mm / 1 in
Voice Coil Winding Depth	1.7 mm
Magnetic Gap Depth	2.0 mm
Flux Density	1.20 T
DC Resistance	6.0 Ω
Resonance Frequency	1.3 kHz
Magnet Weight	14 g
Net Weight	0.09 kg
Recommended Crossover Frequency	2.5 kHz



Frequency Response on IEC Baffle (DIN 45575) @ 1W,1m. Free Air Impedance.

Constructive Characteristics

Magnet	Neodymium
Voice Coil Winding Material	Copper Round Wire
Voice Coil Former Material	Aluminium
Diaphragm	Treated Silk
Ferrofluid in Air Gap	Yes
Flange	Nylon Fiberglass Doped
Spare Part Code	-

Mounting Information

Overall Diameter	66 mm
Baffle Cutout Diameter	46 mm
Mounting Holes	4 holes ø 3 on ø 56 mm
Total Depth	20 mm

LP 85.25 / 95 TW

1" | 80 W

Code Z009040

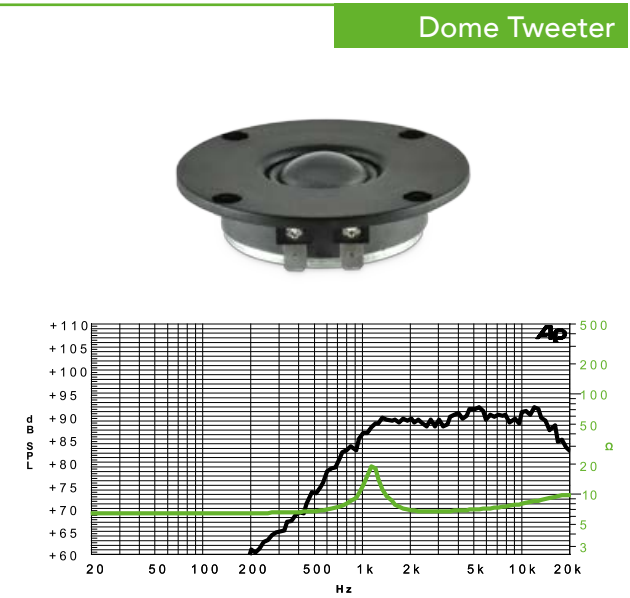
1" voice coil Aluminium former
Treated Silk Dome (TSD)
Ferrofluid in Air Gap (FF)
Ferrite Magnet Circuit
89.8 dB sensitivity

TSD

FF

General Specifications

Nominal Diameter	85 mm
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾ (3000 - 20000 Hz)	20 W
Continuous Program Power ⁽²⁾	40 W
Rated Noise Power (IEC 60268-5) ⁽³⁾	80 W
Sensitivity @ 1W/1m ⁽⁴⁾	89.8 dB
Voice Coil Diameter	25 mm / 1 in
Voice Coil Winding Depth	1.8 mm
Magnetic Gap Depth	3 mm
Flux Density	1.06 T
DC Resistance	6.3 Ω
Resonance Frequency	1.1 kHz
Magnet Weight	95 g
Net Weight	0.26 kg
Recommended Crossover Frequency	2.5 kHz



Frequency Response on IEC Baffle (DIN 45575) @ 1W,1m. Free Air Impedance.

Constructive Characteristics

Magnet	Ferrite
Voice Coil Winding Material	Copper
Voice Coil Former Material	Aluminium
Diaphragm	Treated Silk
Ferrofluid in Air Gap	Yes
Flange	ABS
Spare Part Code	-

Mounting Information

Overall Diameter	85 mm
Baffle Cutout Diameter	62 mm
Mounting Holes	4 holes ø 4 on ø 75 mm
Total Depth	23.5 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Rated Noise Power measured with 100 hours test pink noise, 6 dB crest factor IFC60268-5 filtering. (4) Measured at 1W, 1m in axis within the frequency range.

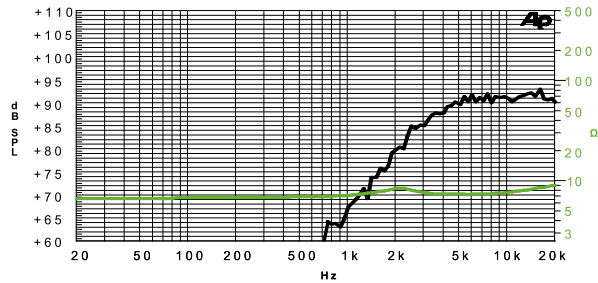
LP 38x50.18/N5 TW

Dome Tweeter

0,7" | 50 W

Code Z008701

0,7" voice coil Epotex former
Treated Silk Dome (TSD)
Ferrofluid in Air Gap (FF)
Neodymium Magnet Circuit
91.1 dB sensitivity



Frequency Response on IEC Baffle (DIN 45575) @ 1W,1m. Free Air Impedance.

General Specifications

Nominal Dimensions	38x50 mm
Nominal Impedance	8 Ω
Rated Power AES (4500-20000) ⁽¹⁾	12 W
Continuous Program Power ⁽²⁾	24 W
Rated Noise Power (IEC 60268-5) ⁽³⁾	50W
Sensitivity @ 1W/1m ⁽³⁾	91.1 dB
Voice Coil Diameter	18 mm / 0.7 in
Voice Coil Winding Depth	1.7 mm
Magnetic Gap Depth	2 mm
Flux Density	1.10 T
DC Resistance	5.8 Ω
Resonance Frequency	2.2 kHz
Magnet Weight	5 g
Net Weight	0.03 kg
Recommended Crossover Frequency	4.5 kHz

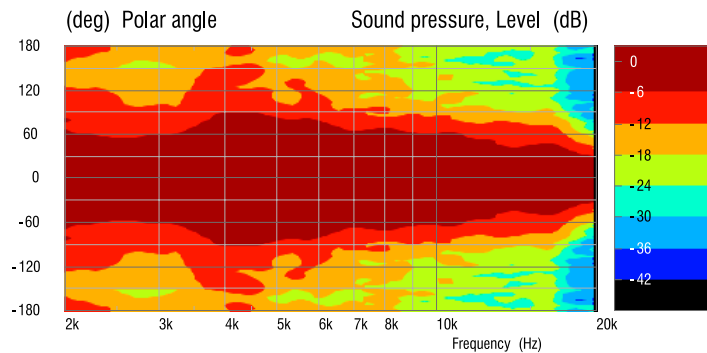
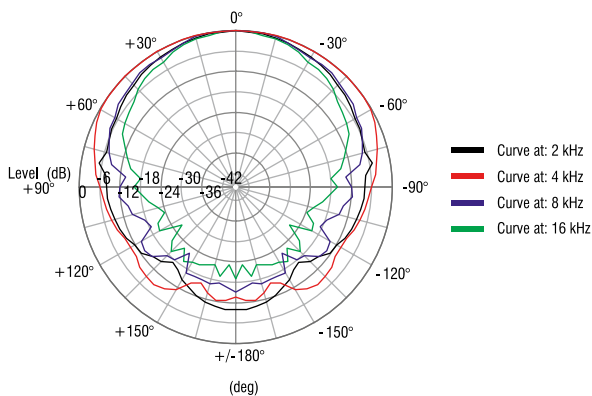
Constructive Characteristics

Magnet	Neodymium
Voice Coil Winding Material	Copper
Voice Coil Former Material	Epotex
Diaphragm	Treated Silk
Ferrofluid in Air Gap	Yes
Flange	Nylon Fiberglass Doped
Spare Part Code	-

Mounting Information

Overall Dimensions	38 x 50 mm
Baffle Cutout Diameter	34 mm
Mounting Holes	4 holes ø 3.8 on ø 46 mm
Total Depth	16.6 mm

Z008701 - Directivity

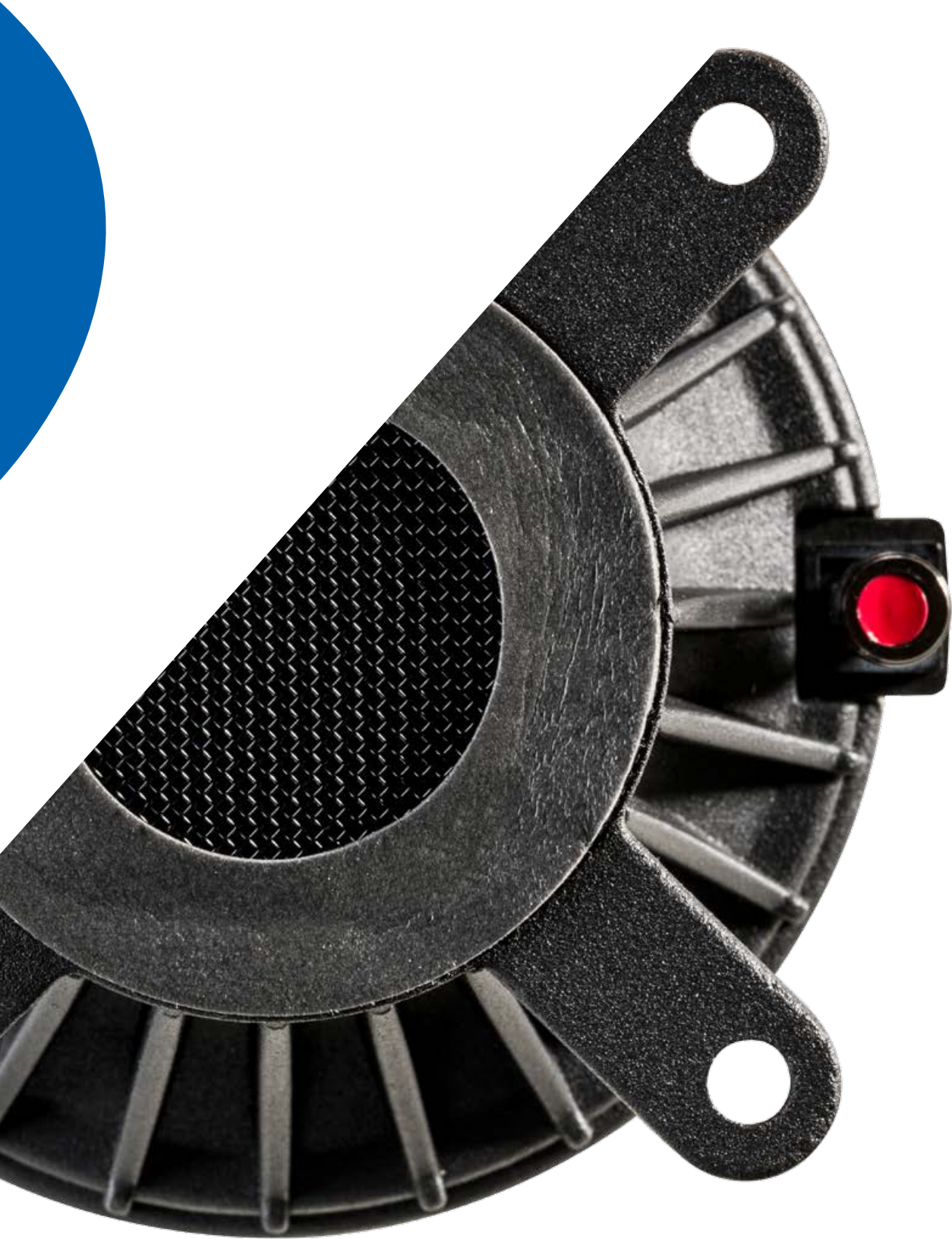


(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Rated Noise Power measured with 100 hours test pink noise, 6 dB crest factor IFC60268-5 filtering. (4) Measured at 1W, 1m in axis within the frequency range.



COMPRESSION

Driver



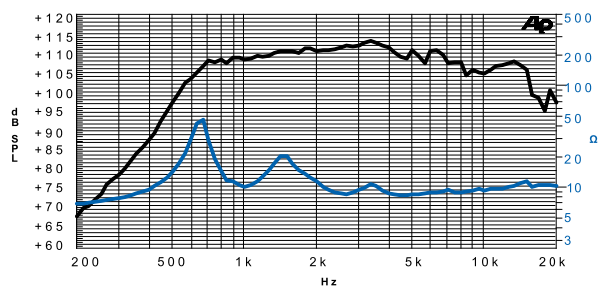
CD 105.65/N220

Compression Driver

2,5" | 160 W

Code Z009497

2,5" voice coil Kapton former and Aluminium Flat Wire (AIFW)
Titanium diaphragm (TD)
Neodymium Magnet Circuit with Copper Demodulating Ring (CDR)
1,4" horn throat diameter
108.8 dB sensitivity



Free Air Frequency Response with 6x8.5 inches horn @ 1W,1m. Impedance (without horn).

General Specifications

Nominal Diameter	105 mm
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾ (1500 - 20000 Hz)	80 W
Continuous Program Power ⁽²⁾	160 W
Sensitivity @ 1W/1m ⁽³⁾	108.8 dB
Voice Coil Diameter	65 mm / 2.5 in
Voice Coil Winding Depth	3.0 mm
Magnetic Gap Depth	3.0 mm
Flux Density	1.93 T
DC Resistance	6.0 Ω
Resonance Frequency	0.65 kHz
Magnet Weight	220 g
Net Weight	1.3 kg
Recommended Crossover Frequency	1.2 kHz
Throat Diameter	35.5 mm / 1.4 in

Constructive Characteristics

Magnet	Neodymium
Voice Coil Winding Material	Aluminium Flat Wire
Voice Coil Former Material	Kapton
Diaphragm	Titanium
Ferrofluid in Air Gap	No
Spare Part Code	Z009399

Mounting Information

Overall Diameter	105 mm
Mounting Holes	4 holes ø 6.5 on ø 102 mm
Total Depth	88.7 mm

(1) Rated Power measured with 2 hours test with pink noise signal, 6dB crest factor, driver coupled to the recommended horn. (2) Power on Continuous Program is defined as 3 dB greater than the Rated Power. (3) Measured at 1W,1m in axis within the frequency range, driver coupled to the recommended horn.

CD 95.44/N240

1,7" | 120 W

Code **Z009493**

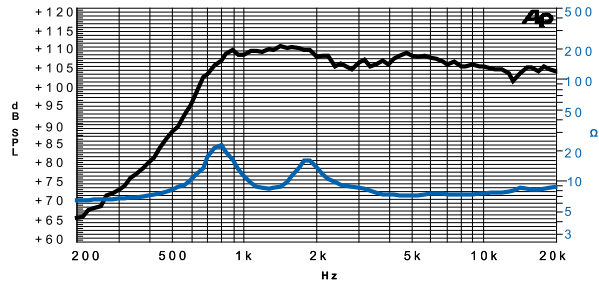
1,7" voice coil Kapton former and Aluminium Flat Wire (AIFW)
Titanium diaphragm (TD)
Neodymium Magnet Circuit with Copper Demodulating Ring (CDR)
1" horn throat diameter
106.3 dB sensitivity



General Specifications

Nominal Diameter	96 mm
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾ (1500 - 20000 Hz)	60 W
Continuous Program Power ⁽²⁾	120 W
Sensitivity @ 1W/1m ⁽³⁾	106.3 dB
Voice Coil Diameter	44 mm / 1.7 in
Voice Coil Winding Depth	2.6 mm
Magnetic Gap Depth	3.0 mm
Flux Density	2.10 T
DC Resistance	5.8 Ω
Resonance Frequency	0.8 kHz
Magnet Weight	235 g
Net Weight	1.1 kg
Recommended Crossover Frequency	1.6 kHz
Throat Diameter	25.4 mm / 1 in

Compression Driver



Free Air Frequency Response with 6x11 inches horn @ 1W,1m. Impedance (without horn).

Constructive Characteristics

Magnet	Neodymium
Voice Coil Winding Material	Aluminium Flat Wire
Voice Coil Former Material	Kapton
Diaphragm	Titanium
Ferrofluid in Air Gap	No
Spare Part Code	Z009396

Mounting Information

Overall Diameter	96 mm
Mounting Holes	4 holes ø 4.5 on ø 95 mm 2 holes M6 on ø 76 mm
Total Depth	47 mm

CD 95.44/N240 POLY

1,7" | 120 W

Code **Z009493P**

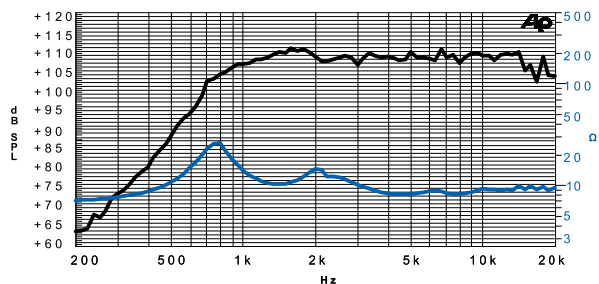
1.7" voice coil Kapton former and Aluminium Flat Wire (AIFW)
PI diaphragm
Neodymium Magnet Circuit with Copper Demodulating Ring (CDR)
1" horn throat diameter
108.7 dB sensitivity



General Specifications

Nominal Diameter	96 mm
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾ (1500 - 20000 Hz)	60 W
Continuous Program Power ⁽²⁾	120 W
Sensitivity @ 1W/1m ⁽³⁾	108.7 dB
Voice Coil Diameter	44 mm / 1.7 in
Voice Coil Winding Depth	2.6 mm
Magnetic Gap Depth	3.0 mm
Flux Density	2.10 T
DC Resistance	5.8 Ω
Resonance Frequency	0.8 kHz
Magnet Weight	235 g
Net Weight	1.1 kg
Recommended Crossover Frequency	1.6 kHz
Throat Diameter	25.4 mm / 1 in

Compression Driver



Free Air Frequency Response with 6x11 inches horn @ 1W,1m. Impedance (without horn).

Constructive Characteristics

Magnet	Neodymium
Voice Coil Winding Material	Aluminium Flat Wire
Voice Coil Former Material	Kapton
Diaphragm	Polyimide
Ferrofluid in Air Gap	No
Spare Part Code	Z009396P

Mounting Information

Overall Diameter	96 mm
Mounting Holes	4 holes ø 4.5 on ø 95 mm 2 holes M6 on ø 76 mm
Total Depth	47 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, driver coupled to the recommended horn. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Measured at 1W,1m in axis within the frequency range, driver coupled to the recommended horn.

CD 120.44/640

1,7" | 120 W

Code Z009491

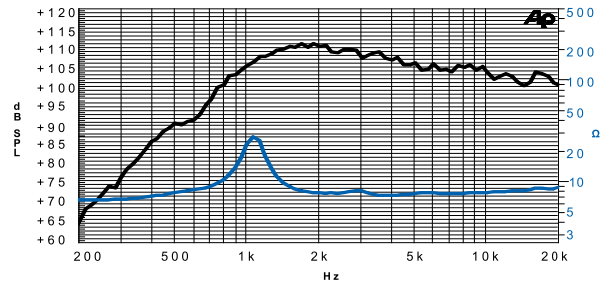
1,7" voice coil Kapton former and Aluminium Flat Wire (AIFW)
Titanium diaphragm (TD)
Ferrite Magnet Circuit with Copper Demodulating Ring (CDR)
1" horn throat diameter
106.3 dB sensitivity



General Specifications

Nominal Diameter	120 mm
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾ (1500 - 20000 Hz)	60 W
Continuous Program Power ⁽²⁾	120 W
Sensitivity @ 1W/1m ⁽³⁾	106.3 dB
Voice Coil Diameter	44 mm / 1.7 in
Voice Coil Winding Depth	2.6 mm
Magnetic Gap Depth	3.0 mm
Flux Density	1.70 T
DC Resistance	5.8 Ω
Resonance Frequency	1.10 kHz
Magnet Weight	640 g
Net Weight	1.9 kg
Recommended Crossover Frequency	1.6 kHz
Throat Diameter	25.4 mm / 1 in

Compression Driver



Free Air Frequency Response with 6x11 inches horn @ 1W,1m. Impedance (without horn).

Constructive Characteristics

Magnet	Ferrite
Voice Coil Winding Material	Aluminium Flat Wire
Voice Coil Former Material	Kapton
Diaphragm	Titanium
Ferrofluid in Air Gap	No
Spare Part Code	Z009396

Mounting Information

Overall Diameter	121 mm
Mounting Holes	2 holes M6 on ø 76 mm
<i>Note: adapter Q07310A is required for coupling with SICA horns</i>	
Total Depth	52 mm

CD 120.44/640 POLY

1,7" | 120 W

Code Z009491P

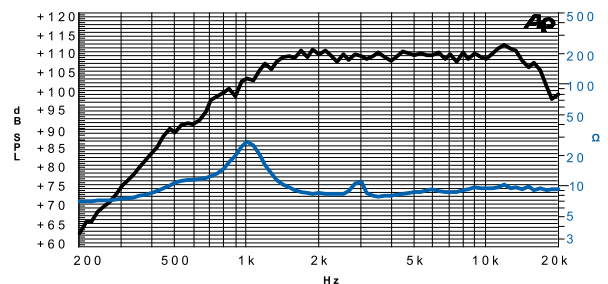
1,7" voice coil Kapton former and Aluminium Flat Wire (AIFW)
PI diaphragm
Ferrite Magnet Circuit with Copper Demodulating Ring (CDR)
1" horn throat diameter
109.0 dB sensitivity



General Specifications

Nominal Diameter	120 mm
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾ (1500 - 20000 Hz)	60 W
Continuous Program Power ⁽²⁾	120 W
Sensitivity @ 1W/1m ⁽³⁾	109.0 dB
Voice Coil Diameter	44 mm / 1.7 in
Voice Coil Winding Depth	2.6 mm
Magnetic Gap Depth	3.0 mm
Flux Density	1.70 T
DC Resistance	5.8 Ω
Resonance Frequency	1.00 kHz
Magnet Weight	640 g
Net Weight	1.9 kg
Recommended Crossover Frequency	1.6 kHz
Throat Diameter	25.4 mm / 1 in

Compression Driver



Free Air Frequency Response with 6x11 inches horn @ 1W,1m. Impedance (without horn).

Constructive Characteristics

Magnet	Ferrite
Voice Coil Winding Material	Aluminium Flat Wire
Voice Coil Former Material	Kapton
Diaphragm	Polyimide
Ferrofluid in Air Gap	No
Spare Part Code	Z009396P

Mounting Information

Overall Diameter	121
Mounting Holes	2 holes M6 on ø 76 mm
<i>Note: adapter Q07310A is required for coupling with SICA horns</i>	
Total Depth	52 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, driver coupled to the recommended horn. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Measured at 1W,1m in axis within the frequency range, driver coupled to the recommended horn.

CD 60.38/N92

1,5" | 60 W

Code **Z009484**

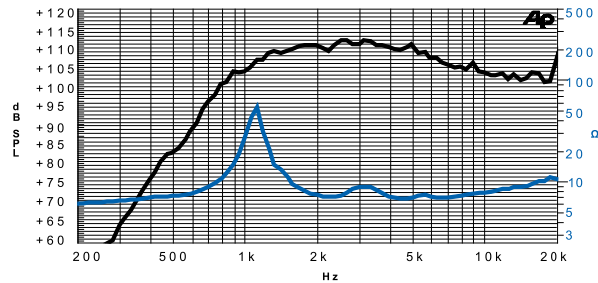
1,5" voice coil Kapton former and Aluminium Flat Wire (AIFW)
PEI diaphragm
Neodymium Magnet Circuit
1" horn throath diameter
107.9 dB sensitivity

AIFW

General Specifications

Nominal Diameter	60 mm
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾ (1500 - 20000 Hz)	30 W
Continuous Program Power ⁽²⁾	60 W
Sensitivity @ 1W/1m ⁽³⁾	107.9 dB
Voice Coil Diameter	38 mm / 1.5 in
Voice Coil Winding Depth	2.5 mm
Magnetic Gap Depth	2.5 mm
Flux Density	1.85 T
DC Resistance	6.0 Ω
Resonance Frequency	1.1 kHz
Magnet Weight	92 g
Net Weight	0.4 kg
Recommended Crossover Frequency	2.0 kHz
Throat Diameter	25.4mm / 1 in

Compression Driver



Free Air Frequency Response with 6x11 inches horn @ 1W,1m. Impedance (without horn).

Constructive Characteristics

Magnet	Neodymium
Voice Coil Winding Material	Aluminium Flat Wire
Voice Coil Former Material	Kapton
Diaphragm	PEI
Ferrofluid in Air Gap	No
Spare Part Code	Z009390

Mounting Information

Overall Diameter	60 mm
Mounting Holes	2 holes ø 5.5 on ø 95 mm 2 holes ø 5.5 on ø 76 mm
Total Depth	45.4 mm

CD 90.38/405

1,5" | 60 W

Code **Z009487**

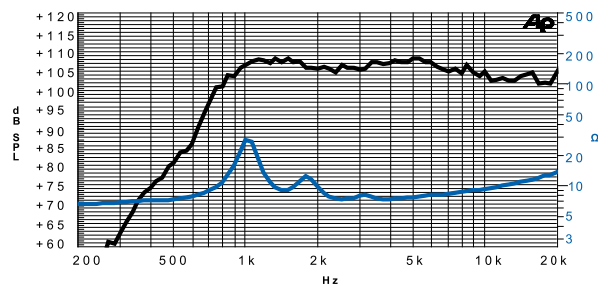
1,5" voice coil Kapton former and Aluminium Flat Wire (AIFW)
PEI diaphragm
Ferrite Magnet Circuit
1" horn throath diameter
105.7 dB sensitivity

AIFW

General Specifications

Nominal Diameter	90 mm
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾ (1500 - 20000 Hz)	30 W
Continuous Program Power ⁽²⁾	60 W
Sensitivity @ 1W/1m ⁽³⁾	105.7 dB
Voice Coil Diameter	38 mm / 1.5 in
Voice Coil Winding Depth	2.5 mm
Magnetic Gap Depth	2.5 mm
Flux Density	1.64 T
DC Resistance	6.0 Ω
Resonance Frequency	1.0 kHz
Magnet Weight	405 g
Net Weight	0.93 kg
Recommended Crossover Frequency	2.0 kHz
Throat Diameter	25.4 mm / 1 in

Compression Driver



Free Air Frequency Response with 6x11 inches horn @ 1W,1m. Impedance (without horn).

Constructive Characteristics

Magnet	Ferrite
Voice Coil Winding Material	Aluminium Flat Wire
Voice Coil Former Material	Kapton
Diaphragm	PEI
Ferrofluid in Air Gap	No
Spare Part Code	Z009392

Mounting Information

Overall Diameter	90 mm
Mounting Holes	2 holes M5 on ø 76 mm
<i>Note: adapter Q07310A is required for coupling with SICA horns</i>	
Total Depth	46.6 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, driver coupled to the recommended horn. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Measured at 1W,1m in axis within the frequency range, driver coupled to the recommended horn.

CD 83.26/380

Compression Driver

1" | 40 W

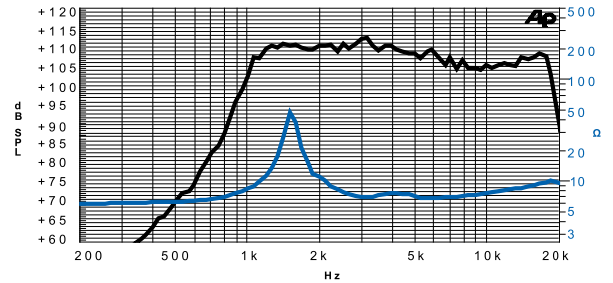
Code Z009470

1" voice coil Kapton former and Aluminium Flat Wire (AIFW)
Tri-Acetate diaphragm
Ferrite Magnet Circuit
1" horn throat diameter
107.3 dB sensitivity

AIFW

General Specifications

Nominal Diameter	83 mm
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾ (1500 - 20000 Hz)	20 W
Continuous Program Power ⁽²⁾	40 W
Sensitivity @ 1W/1m ⁽³⁾	107.3 dB
Voice Coil Diameter	25 mm / 1 in
Voice Coil Winding Depth	2.1 mm
Magnetic Gap Depth	2.0 mm
Flux Density	1.70 T
DC Resistance	5.5 Ω
Resonance Frequency	1.5 kHz
Magnet Weight	380 g
Net Weight	0.8 kg
Recommended Crossover Frequency	2.5 kHz
Throat Diameter	25.4 mm / 1 in



Free Air Frequency Response with 6x8 inches horn @ 1W,1m. Impedance (without horn).

Constructive Characteristics

Magnet	Ferrite
Voice Coil Winding Material	Aluminium Flat Wire
Voice Coil Former Material	Kapton
Diaphragm	Tri-acetate Film
Ferrofluid in Air Gap	No
Spare Part Code	Z009370

Mounting Information

Overall Dimensions	86x95 mm
Mounting Holes	4 holes ø 4.5 on ø 95 mm 2 holes M5 on ø 76 mm
Total Depth	50.9 mm

CD 78.26/N92

Compression Driver

1" | 40 W

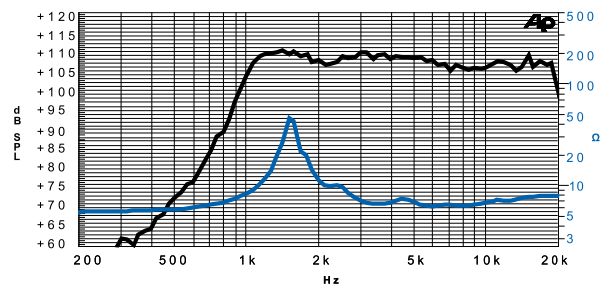
Code Z009450

1" voice coil Kapton former and Aluminium Flat Wire (AIFW)
Tri-Acetate diaphragm
Neodymium Magnet Circuit
1" horn throat diameter
107.3 dB sensitivity

AIFW

General Specifications

Nominal Diameter	78 mm
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾ (1500 - 20000 Hz)	20 W
Continuous Program Power ⁽²⁾	40 W
Sensitivity @ 1W/1m ⁽³⁾	107.3 dB
Voice Coil Diameter	25 mm / 1 in
Voice Coil Winding Depth	2.1 mm
Magnetic Gap Depth	2.0 mm
Flux Density	1.92 T
DC Resistance	5.3 Ω
Resonance Frequency	1.5 kHz
Magnet Weight	92 g
Net Weight	0.4 kg
Recommended Crossover Frequency	2.5 kHz
Throat Diameter	25.4 mm / 1 in



Free Air Frequency Response with 6x8 inches horn @ 1W,1m. Impedance (without horn).

Constructive Characteristics

Magnet	Neodymium
Voice Coil Winding Material	Aluminium Flat Wire
Voice Coil Former Material	Kapton
Diaphragm	Tri-acetate Film
Ferrofluid in Air Gap	No
Spare Part Code	Z009376

Mounting Information

Overall Dimensions	78x88.5 mm
Mounting Holes	4 holes ø 4.5 on ø 95 mm 2 holes M5 on ø 76 mm
Total Depth	43.6 mm

(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, driver coupled to the recommended horn. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Measured at 1W,1m in axis within the frequency range, driver coupled to the recommended horn.

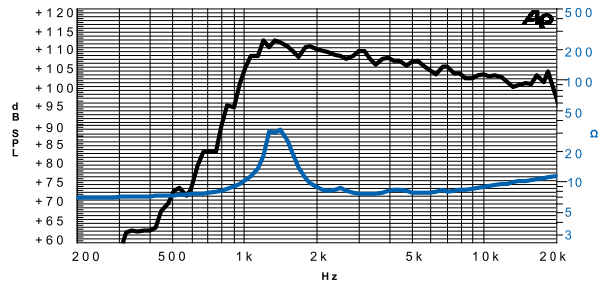
CD 78.26/245

Compression Driver

1" | 32 W

Code Z009442

1" voice coil Kapton former
 Tri-Acetate diaphragm
 Ferrite Magnet Circuit
 1" horn throath diameter
 105.5 dB sensitivity



Free Air Frequency Response with 6x8 inches horn @ 1W,1m. Impedance (without horn).

General Specifications

Nominal Diameter	78 mm
Nominal Impedance	8 Ω
Rated Power AES ⁽¹⁾ (1500 - 20000 Hz)	16 W
Continuous Program Power ⁽²⁾	32 W
Sensitivity @ 1W/1m ⁽³⁾	105.5 dB
Voice Coil Diameter	25 mm / 1 in
Voice Coil Winding Depth	1.7 mm
Magnetic Gap Depth	2.0 mm
Flux Density	1.56 T
DC Resistance	6.3 Ω
Resonance Frequency	1.5 kHz
Magnet Weight	245 g
Net Weight	0.6 kg
Recommended Crossover Frequency	2.5 kHz
Throat Diameter	25.4 mm / 1 in

Constructive Characteristics

Magnet	Ferrite
Voice Coil Winding Material	Copper
Voice Coil Former Material	Kapton
Diaphragm	Tri-acetate Film
Ferrofluid in Air Gap	No
Spare Part Code	Z009374

Mounting Information

Overall Dimensions	78x88.5 mm
Mounting Holes	2 holes ø 4.5 on ø 95 mm 2 holes M5 on ø 76 mm
Total Depth	51.6 mm



(1) Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, driver coupled to the recommended horn. (2) Power on Continuous Program is defined as 3dB greater than the Rated Power. (3) Measured at 1W,1m in axis within the frequency range, driver coupled to the recommended horn.



Horn

H

Q07015A

1" Horn

Horn



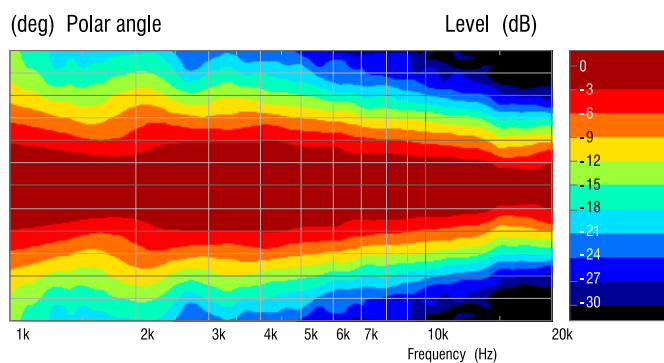
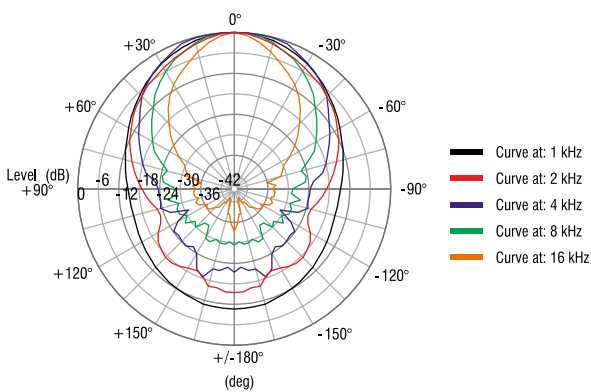
General Specifications

Throat Diameter	25.4 mm / 1 in
Cutoff Frequency	1.00 kHz
Net Weight	0.41 Kg
Horizontal coverage	80°
Vertical coverage	60°
Material	Plastic

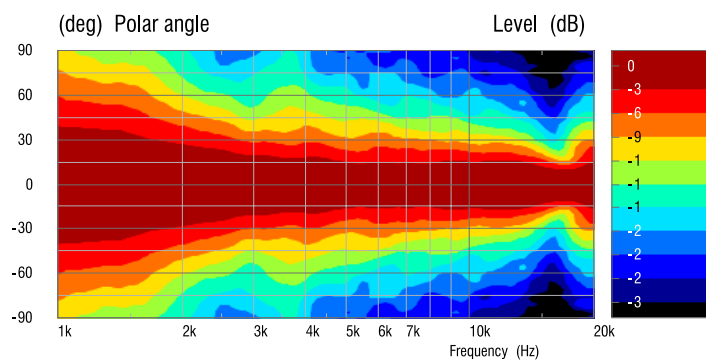
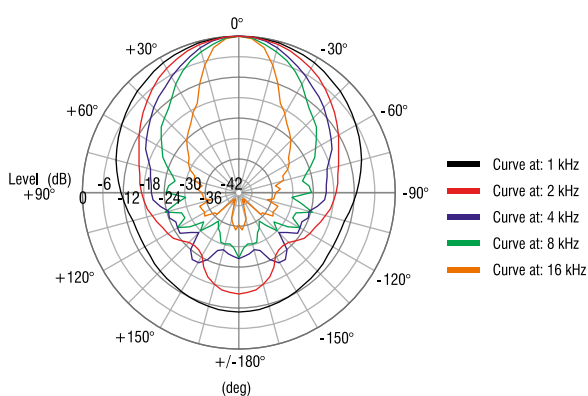
Mounting Information

Shape	Rectangular
Overall Dimensions	290x160x150 mm
Baffle Cutout Dimensions	255x135 mm
Mounting Holes	8 holes ø 4.5 mm

Q07015A - Horizontal Directivity



Q07015A - Vertical Directivity



Q07020A

Horn

1" Horn



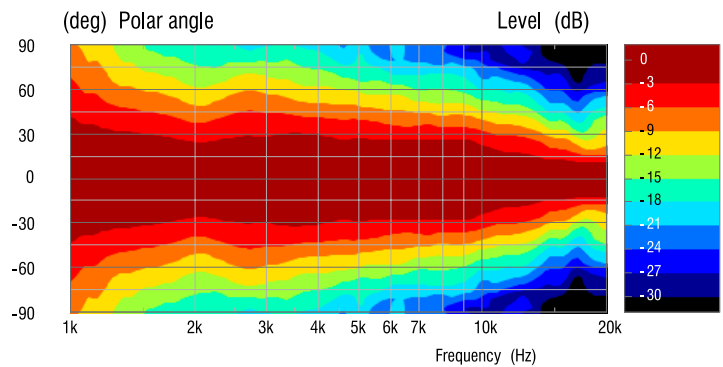
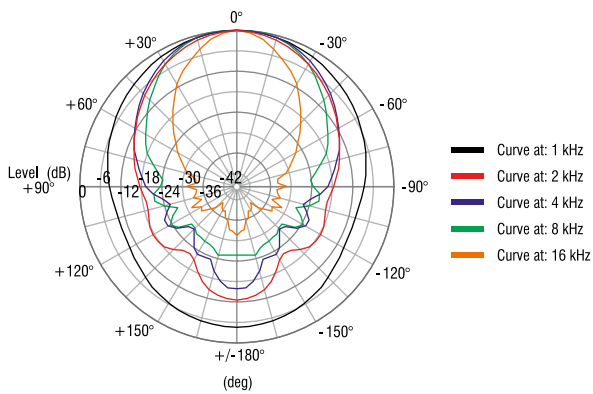
General Specifications

Throat Diameter	25.4 mm / 1 in
Cutoff Frequency	1.50 kHz
Net Weight	0.30 Kg
Horizontal coverage	90°
Vertical coverage	60°
Material	Plastic

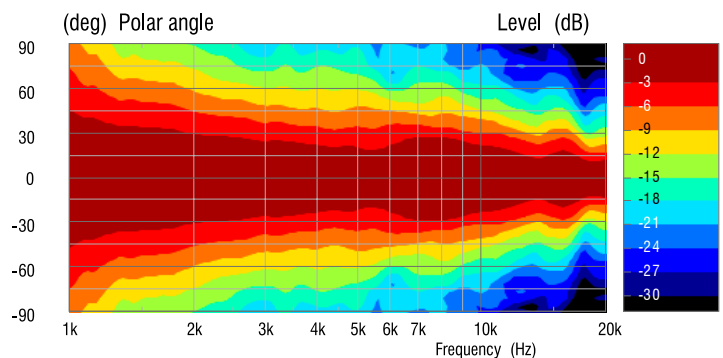
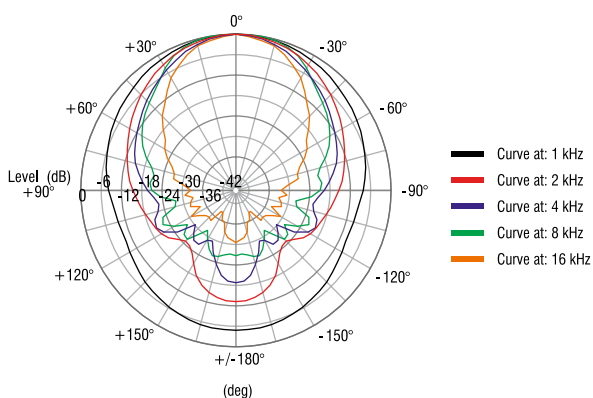
Mounting Information

Shape	Elliptic
Overall Dimensions	200x160x100 mm
Baffle Cutout Dimensions	167x129 mm
Mounting Holes	4 holes ø 5.0 mm

Q07020A - Horizontal Directivity



Q07020A - Vertical Directivity



Q07030A Q07032B

1" Horn

1" Horn

General Specifications

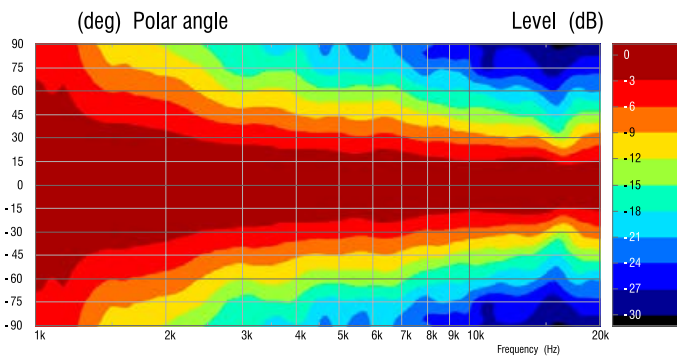
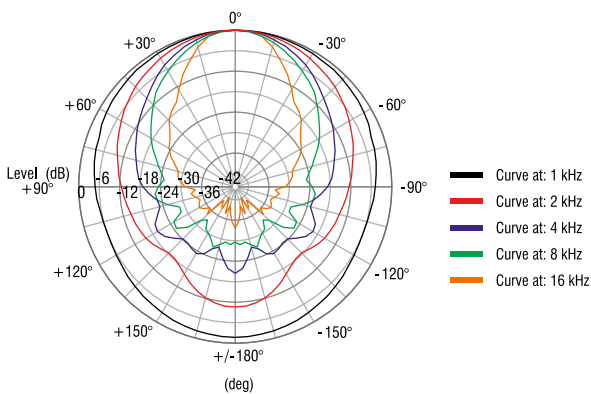
Throat Diameter	25.4 mm / 1 in	
Cutoff Frequency	2.00 kHz	
Net Weight	0.10 Kg	
Horizontal coverage	80°	
Vertical coverage	80°	
Material	Plastic	

Mounting Information

	Q07030A	Q07032B
Shape	Round	Round (square contour)
Overall Dimensions	∅ 140x80 mm	119x119x80 mm
Baffle Cutout Dimensions	∅ 109 mm	∅ 109 mm
Mounting Holes	4 holes ∅ 5.0 mm	4 holes ∅ 5.0 mm



Q07030A - Q07032B - Directivity



Q07050A

1" Wave Guide

General Specifications

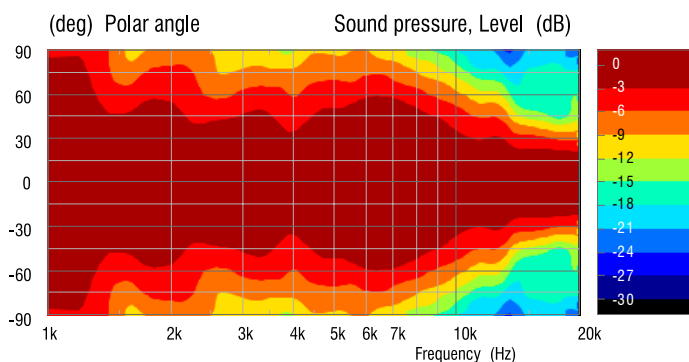
Throat Diameter	25.4 mm / 1 in
Cutoff Frequency	1.50 Hz
Net Weight	0.10 Kg
Horizontal coverage	130°
Material	Plastic

Mounting Information

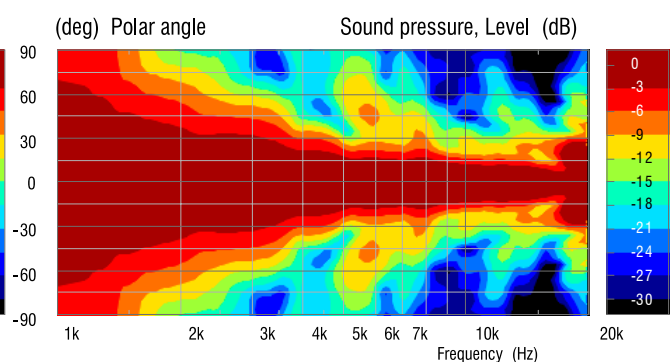
Overall Dimensions	110x87x112 mm
Baffle Cutout Dimensions	108x62 mm
Mounting Holes	4 holes ∅ 4.8 mm



Q07050A - Horizontal Directivity



Q07050A - Vertical Directivity



Horn





Index

Model	Application	Code	Nom. Diam. inch	VC mm/inch	Cont Prog PW Watt	Rated PW AES Watt	Imp Ohm	Fs Hz
21 S 4 PL	Subwoofer	Z008424	21	100 / 4	2400	1200	8	34.6
18 K 4 PL	Subwoofer	Z008402	18	100 / 4	2400	1200	8	36.8
18 S 4 PL	Subwoofer	Z008405	18	100 / 4	2400	1200	8	36.2
18 PF 4	Subwoofer	Z008394	18	100 / 4	2400	1200	8	38.0
18 F 3 CP	Subwoofer	Z008362	18	75 / 3	800	400	8	30.8
15 K 4 PL	Professional	Z008339	15	100 / 4	2400	1200	8	45.2
15 F 4 CP	Professional	Z008321	15	100 / 4	1400	700	8	41.0
15 S 4 PL	Subwoofer	Z008175	15	100 / 4	2400	1200	8	38.0
15 PFS 4	Subwoofer	Z008318	15	100 / 4	2400	1200	8	39.0
15 K 3 PL	Professional	Z008331	15	75 / 3	800	400	8	40.0
15 Fe 3 CP	Professional	Z008308	15	75 / 3	800	400	8	40.2
15 S 3 PL	Subwoofer	Z008173	15	75 / 3	800	400	8	33.0
15 PFS 3	Subwoofer	Z008314	15	75 / 3	1000	500	8	39.0
12 K 4 PL	Professional	Z008020	12	100 / 4	2000	1000	8	48.0
12 F 4 CP	Professional	Z008019	12	100 / 4	1400	700	8	46.0
12 S 4 PL	Subwoofer	Z007951	12	100 / 4	2000	1000	8	40.4
12 PFS 4	Subwoofer	Z007954	12	100 / 4	2000	1000	8	39.0
12 N 3 PL	Professional	Z007983	12	75 / 3	800	400	8	46.0
12 PF 3	Professional	Z007845	12	75 / 3	1000	500	8	47.0
12 S 3 PL	Subwoofer	Z007946	12	75 / 3	800	400	8	42.0
12 PFS 3	Subwoofer	Z007847	12	75 / 3	1000	500	8	43.0
12 SR 3 PL	Subwoofer	Z007948	12	75 / 3	800	400	8	36.0
12 SR 3 CP	Subwoofer	Z007942	12	75 / 3	900	450	8	36.8
12 L1 2,5 SL	Professional	Z007903	12	65 / 2.5	600	300	8	47.5
12 D 1,5 CS	Dual Cone	Z007360	12	38 / 1.5	260	130	8	62.0
10 K 4 PL	Professional	Z006950	10	100 / 4	1600	800	8	58.5
10 K 3 PL	Professional	Z005840	10	75 / 3	800	400	8	50.6
10 Fe 3 CP	Professional	Z005831	10	75 / 3	900	450	8	52.0
10 S 3 PL	Subwoofer	Z006015	10	75 / 3	800	400	8	43.0
10 S 3 CP	Subwoofer	Z006017	10	75 / 3	900	450	8	43.0
10 N 2,5 PL	Professional	Z005701	10	65 / 2.5	600	300	8	57.0
10 Fe 2,5 CP	Professional	Z005710	10	65 / 2.5	600	300	8	57.0
10 SR 2,5 CP	Subwoofer	Z006013	10	65 / 2.5	600	300	8	34.5
10 D 1,5 CS	Dual Cone	Z006510	10	38 / 1.5	200	100	8	68.0
8 K 3 PL	Professional	Z005520	8	75 / 3	800	400	8	68.1
8 N 2,5 PL	Professional	Z005200	8	65 / 2.5	600	300	8	77.0
8 Fe 2,5 CP	Professional	Z005203	8	65 / 2.5	600	300	8	73.0
8 S 2,5 CP	Subwoofer	Z005205	8	65 / 2.5	600	300	8	54.0
8 H 2 CP	Studio Monitor	Z005158	8	50 / 2	400	200	8	38.0
8 L 2 SL	Professional	Z005055	8	50 / 2	400	200	8	64.0
8 Fe 2 CP	Professional	Z005112	8	50 / 2	400	200	8	67.0
8 M 1,5 CS	Midrange	Z004930	8	38 / 1.5	200	100	8	460.0
8 D 1,5 CS	Dual Cone	Z004950	8	38 / 1.5	260	130	8	62.0
6,5 H 1,5 CP	Studio Monitor	Z004100	6.5	38 / 1.5	240	120	8	45.4
6 N 2,5 PL	Professional	Z004080	6	65 / 2.5	600	300	8	80.0
6 N 2 PL	Professional	Z004083	6	50 / 2	400	200	8	68.0
6 NR 2 PL	Professional	Z004068	6	50 / 2	400	200	8	60.5
6 M 2 CP	Midrange	Z004079	6	50 / 2	300	150	4	135.0
6 L 1,5 SL	Professional	Z004059	6	38 / 1.5	260	130	8	59.0
6 E 1,5 CS	Professional	Z004035	6	38 / 1.5	200	100	8	60.0
6 D 1,5 SL	Dual Cone	Z004065	6	38 / 1.5	260	130	8	110.0
6 D 1,5 CS	Dual Cone	Z004002	6	38 / 1.5	200	100	8	104.0
5,5 H 1,5 CP	Studio Monitor	Z002800	5.5	38 / 1.5	240	120	8	48.5
5 N 1,5 PL	Professional	Z002647	5	38 / 1.5	260	130	8	110.6
5 NR 1,5 PL	Professional	Z002650	5	38 / 1.5	260	130	8	61.0

Freq Range Hz	Qts	Vas l	SPL dB	Magnet	Basket	Weight kg	page
35 - 500	0.30	255.0	98.8	Nd	Al	10.5	8
35 - 700	0.32	201.0	97.8	Nd	Al	8.3	9
35 - 700	0.39	189.0	97.3	Nd	Al	8.3	10
35 - 700	0.43	147.3	96.3	Fe	Al	13.0	11
30 - 700	0.45	340.0	96.9	Fe	Al	8.6	12
45 - 2000	0.29	105.0	99.2	Nd	Al	7.0	13
40 - 2000	0.25	120.4	99.1	Fe	Al	12.1	14
35 - 2000	0.28	135.9	98.1	Nd	Al	7.0	15
35 - 2000	0.34	103.9	95.8	Fe	Al	12.3	16
40 - 2000	0.27	166.1	99.7	Nd	Al	4.0	17
40 - 2000	0.33	170.4	99.4	Fe	Al	8.1	18
35 - 2000	0.38	230.0	97.2	Nd	Al	3.9	19
35 - 2000	0.45	135.5	95.9	Fe	Al	7.7	20
50 - 3000	0.24	46.3	97.1	Nd	Al	6.6	21
48 - 3000	0.22	49.9	97.3	Fe	Al	11.7	22
40 - 2000	0.25	57.0	95.5	Nd	Al	6.6	23
35 - 2000	0.26	55.6	94.8	Fe	Al	11.5	24
45 - 3000	0.30	87.9	98.5	Nd	Al	3.5	25
45 - 3000	0.39	76.5	96.4	Fe	Al	6.7	26
40 - 2000	0.34	76.9	95.8	Nd	Al	3.5	27
40 - 2000	0.47	58.5	93.6	Fe	Al	6.7	28
35 - 2000	0.42	60.4	91.8	Nd	Al	3.5	29
35 - 2000	0.39	64.0	92.4	Fe	Al	7.3	30
50 - 3000	0.36	81.8	97.3	Nd	St	2.3	31
65 - 15000	0.75	63.5	96.9	Fe	St	3.7	32
55 - 4000	0.25	23.4	95.8	Nd	Al	6.3	33
50 - 3000	0.26	40.0	96.7	Nd	Al	2.8	34
50 - 3000	0.31	38.6	95.9	Fe	Al	6.6	35
40 - 2000	0.27	39.9	94.5	Nd	Al	3.1	36
40 - 2000	0.31	39.9	93.8	Fe	Al	6.5	37
55 - 3500	0.36	40.9	96.6	Nd	Al	2.2	38
55 - 3500	0.37	39.7	96.3	Fe	Al	4.9	39
35 - 2000	0.32	66.7	93.0	Fe	Al	5.0	40
70 - 15000	1.12	37.5	93.9	Fe	St	1.9	41
65 - 3000	0.25	12.2	95.1	Nd	Al	2.4	42
75 - 4000	0.30	13.7	96.4	Nd	Al	1.8	43
70 - 4000	0.28	15.6	96.7	Fe	Al	4.5	44
50 - 3500	0.33	18.6	93.0	Fe	Al	4.5	45
35 - 3000	0.48	34.8	88.8	Fe	Al	2.7	46
65 - 3000	0.32	18.2	94.5	Nd	St	1.6	47
65 - 3000	0.32	16.9	94.6	Fe	Al	2.8	48
500 - 6000	1.82	0.7	98.7	Fe	St	2.7	49
65 - 15000	0.30	25.5	95.3	Fe	St	3.1	50
40 - 4500	0.42	20.2	89.4	Fe	Al	1.6	51
80 - 5000	0.27	4.9	92.5	Nd	Al	1.5	52
70 - 5000	0.33	8.7	92.3	Nd	Al	1.5	53
60 - 5000	0.33	9.4	91.4	Nd	Al	1.5	54
130 - 6000	0.35	3.5	96.8	Fe	Al	2.7	55
60 - 4000	0.39	11.0	91.0	Nd	St	0.9	56
60 - 4000	0.38	11.3	91.5	Fe	St	1.5	57
110 - 15000	0.46	4.0	93.9	Nd	St	0.9	58
100 - 18000	0.55	4.3	91.9	Fe	St	1.4	59
48 - 5500	0.37	7.8	86.7	Fe	Al	1.5	60
100 - 5000	0.56	3.0	91.0	Nd	Al	0.8	61
60 - 5000	0.35	7.4	90.0	Nd	Al	0.8	62

Index

Model	Application	Code	Nom. Diam. inch	VC mm/inch	Cont Prog PW Watt	Rated PW AES Watt	Imp Ohm	Fs Hz
5 F 1,5 CP	Professional	Z002652	5	38 / 1.5	200	100	8	59.0
5 M 1,5 PL	Midrange	Z002649	5	38 / 1.5	260	130	8	145.0
5 D 1 CS	Dual Cone	Z002400	5	25 / 1	120	60	8	79.0
4 L 1 SL	Professional	Z001449	4	25 / 1	120	60	8	108.3
4 L1 1 SL	Professional	Z001804	4	25 / 1	140	70	8	120.0
4 E 1 CS	Professional	Z001800	4	25 / 1	140	70	8	118.0
4 D 0,8 CS	Dual Cone	Z001300	4	20 / 0.8	70	35	4	140.0
3,5 L 1 SL	Professional	Z000963	3.5	25 / 1	90	45	8	108.0
3,5 F 1 CS	Professional	Z000960	3.5	25 / 1	90	45	8	107.0
3,5 H 1 CS	Studio Monitor	Z000957	3.5	25 / 1	90	45	8	85.0
3 L 0,8 SL	Professional	Z000900	3	20 / 0.8	40	20	8	145.0
2,5 H 0,8 SL	Studio Monitor	Z000855	2.5	20 / 0.8	40	20	8	185.0
2 H 0,8 SL	Studio Monitor	Z000795	2	20 / 0.8	40	20	8	216.0

12 Cx 3 CP	Coaxial Unit <i>woofer</i> <i>compression driver</i>	Z007996	12	75 / 3 44 / 1.7	800 120	400 60	8 8	49.0 1100.0
12 C 2,5 CP	Coaxial Woofer	Z007857	12	65 / 2.5	600	300	8	50.5
12 C 2 CP	Coaxial Woofer	Z007852	12	50 / 2	400	200	8	58.4
10 C 2 CP	Coaxial Woofer	Z006781	10	50 / 2	400	200	8	50.0
8 C 2 CP	Coaxial Woofer	Z005061	8	50 / 2	400	200	8	78.5

Model	Application	Code	VC mm/inch	Rated Noise PW Watt (IEC 602 68-5)	Rated PW AES Watt	Imp Ohm	Fs kHz	Recomm Xover Freq kHz
LP 90.28/N92 TW	Dome Tweeter	Z009160	28 / 1.1	120	25	8	0.60	1.5
LP 110.28/380 TW	Dome Tweeter	Z009240	28 / 1.1	120	25	8	0.65	1.5
LP 53x58.28/N20 TW	Dome Tweeter	Z008985	28 / 1.1	80	20	8	1.50	2.5
LP 111.25/245 TW	Dome Tweeter	Z009215	25 / 1	120	25	8	1.20	2.5
LP 98.25/245 TW	Dome Tweeter	Z009170	25 / 1	120	25	8	1.20	2.5
LP 66.25/N14 TW	Dome Tweeter	Z008950	25 / 1	70	17	8	1.30	2.5
LP 85.25/95 TW	Dome Tweeter	Z009040	25 / 1	80	20	8	1.10	2.5
LP 38x50.18/N5 TW	Dome Tweeter	Z008701	18 / 0.7	50	12	8	2.20	4.5

Model	Application	Code	Throat inch	VC mm/inch	Cont Prog Power Watt	Rated Power AES Watt	Imp Ohm	Fs kHz	Recomm Xover Freq kHz
CD 105.65/N220	Compression driver	Z009497	1.4	65 / 2.5	160	80	8	0.65	1.2
CD 95.44/N240	Compression driver	Z009493	1	44 / 1.7	120	60	8	0.80	1.6
CD 95.44/N240 POLY	Compression driver	Z009493P	1	44 / 1.7	120	60	8	0.80	1.6
CD 120.44/640	Compression driver	Z009491	1	44 / 1.7	120	60	8	1.10	1.6
CD 120.44/640 POLY	Compression driver	Z009491P	1	44 / 1.7	120	60	8	1.00	1.6
CD 60.38/N92	Compression driver	Z009484	1	38 / 1.5	60	30	8	1.10	2.0
CD 90.38/405	Compression driver	Z009487	1	38 / 1.5	60	30	8	1.00	2.0
CD 83.26/380	Compression driver	Z009470	1	25 / 1	40	20	8	1.50	2.5
CD 78.26/N92	Compression driver	Z009450	1	25 / 1	40	20	8	1.50	2.5
CD 78.26/245	Compression driver	Z009442	1	25 / 1	32	16	8	1.50	2.5

Model	Code	Throat inch	Horizontal coverage	Vertical coverage	Cutoff Freq kHz
RECTANGULAR HORN	Q07015A	1	80°	60°	1.0
ELLIPTIC HORN	Q07020A	1	90°	60°	1.5
ROUND HORN	Q07030A	1	80°	80°	2.0
ROUND HORN (SQUARE CONTOUR)	Q07032A	1	80°	80°	2.0
WAVE GUIDE	Q07050A	1	130°	-	1.5

Freq Range Hz	Qts	Vas l	SPL dB	Magnet	Basket	Weight kg	page
60 - 5000	0.31	8.4	90.8	Fe	Al	1.4	63
150 - 10000	0.51	2.0	93.7	Nd	Al	0.8	64
80 - 18000	0.52	5.5	90.0	Fe	St	0.9	65
110 - 10000	0.63	1.2	86.2	Nd	St	0.2	66
120 - 10000	0.36	1.2	90.5	Nd	St	0.4	67
120 - 10000	0.39	1.3	90.0	Fe	St	1.0	68
140 - 20000	0.92	1.2	87.5	Fe	St	0.4	69
110 - 12000	0.57	1.4	88.6	Nd	NyFG	0.2	70
110 - 12000	0.57	1.4	88.5	Fe	NyFG	0.4	71
85 - 10000	0.53	1.8	86.1	Fe	NyFG	0.4	72
150 - 20000	1.01	0.8	86.4	Nd	St	0.1	73
180 - 20000	0.92	0.2	85.6	Nd	St	0.1	74
200 - 20000	0.81	0.1	84.1	Nd	NyFG	0.1	75

50 - 20000	0.33	72.8	98.0 106.2	Fe	Al	8.3	77
55 - 3500	0.30	84.5	98.6	Fe	Al	5.0	78
60 - 3500	0.45	74.3	98.0	Fe	Al	3.8	79
55 - 3500	0.31	63.2	96.9	Fe	Al	3.5	80
80 - 4500	0.30	14.7	96.7	Fe	Al	3.0	81

SPL dB	Flux density T	Magnet	VC winding	Diaphragm	Weight kg	Spare part	page
94.4	1.80	Nd	flat Al	Treated silk	0.41	Z009405	84
93.3	1.28	Fe	flat Al	Treated silk	0.80	Z009410	85
95.8	1.37	Nd	flat Al	Treated silk	0.08	-	86
95.1	1.70	Fe	Cu	Treated silk	0.60	Z009402	86
93.1	1.70	Fe	Cu	Treated silk	0.60	Z009407	87
90.7	1.20	Nd	Cu	Treated silk	0.09	-	88
89.8	1.06	Fe	Cu	Treated silk	0.26	-	88
91.1	1.10	Nd	Cu	Treated silk	0.03	-	89

SPL dB	Flux density T	Magnet	VC winding	Diaphragm	Weight kg	Spare part	page
108.8	1.93	Nd	flat Al	Ti	1.30	Z009399	92
106.3	2.10	Nd	flat Al	Ti	1.10	Z009396	93
108.7	2.10	Nd	flat Al	PI	1.10	Z009396P	93
106.3	1.70	Fe	flat Al	Ti	1.90	Z009396	94
109.0	1.70	Fe	flat Al	PI	1.90	Z009396P	94
107.9	1.85	Nd	flat Al	PEI	0.40	Z009390	95
105.7	1.64	Fe	flat Al	PEI	0.93	Z009392	95
107.3	1.70	Fe	flat Al	Tri-acetate	0.80	Z009370	96
107.3	1.92	Nd	flat Al	Tri-acetate	0.40	Z009376	96
105.5	1.56	Fe	Cu	Tri-acetate	0.60	Z009374	97

Material	Overall dim. (WxDxH) mm	Baffle cutout dim. mm	Mounting holes	Weight kg	page
plastic	290x160x150	255x135	8 holes Ø 4.5mm	0.41	99
plastic	200x160x100	167x129	4 holes Ø 5.0 mm	0.30	100
plastic	Ø140x80	Ø109	4 holes Ø 5.0 mm	0.10	101
plastic	119x119x80	Ø109	4 holes Ø 5.0 mm	0.10	101
plastic	110x87x112	108x62	4 holes Ø 4.8 mm	0.10	101



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