SICA loudspeakers ®

CATALOGUE

SICA loudspeakers ®

Index

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 deep-rooted 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, vibrate 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

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 on both the manufacturing and the commercial sides..
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® loudspeakers

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.

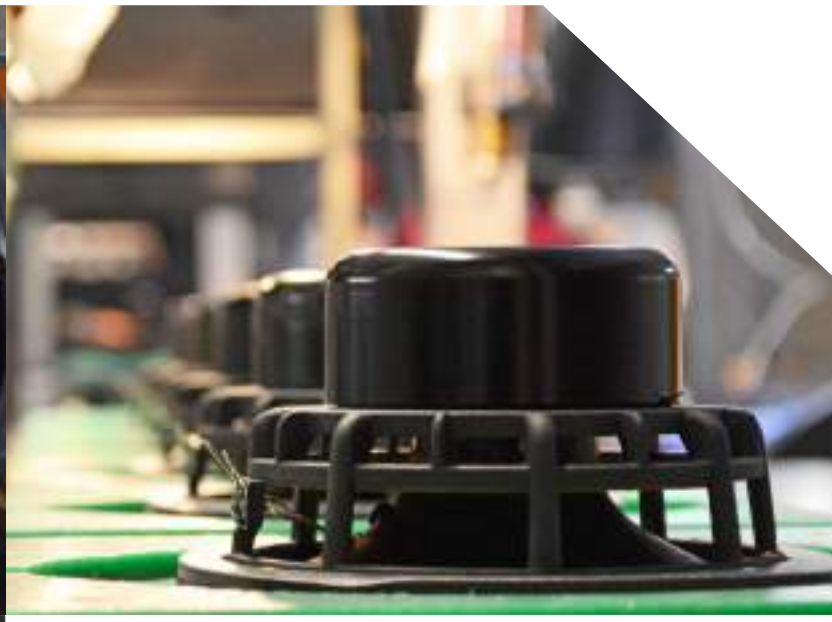
Due to continuing product improvements, all features are subject to **change without notice**.

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.



Quality Control

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.

5

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.

LF

LOW
Frequency

7

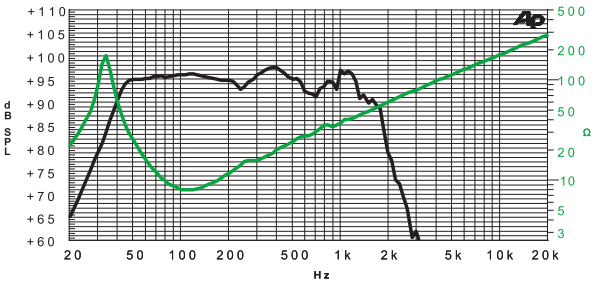
21 S 4 PL

21" | 2400 W

Code Z008424

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

DCSP TR AWpT VM



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

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

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

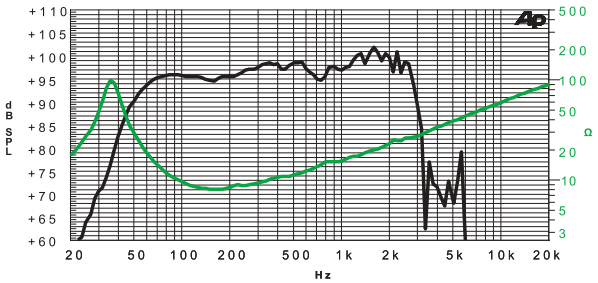
18 K 4 PL

18" | 2400 W

Code Z008402

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

SNDW DPS DAR AWpT VM



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

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 cm²
X max (5)	+/- 6.5 mm	X var (6)	+/- 10.0 mm
η_0	2.78%	Le (1KHz)	1.60 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

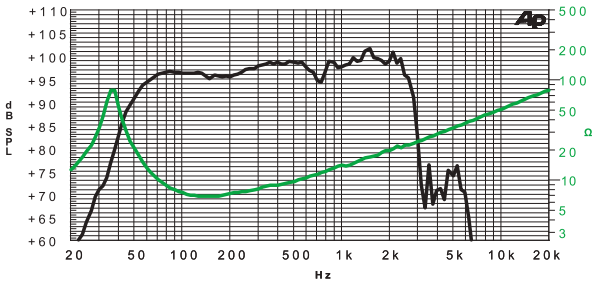
18 S 4 PL

18" | 2400 W

Code Z008405

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

SNDW DCSP DAR AWpT VM



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

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 cm²
X max (5)	+/- 8.0 mm	X var (6)	+/- 10.1 mm
η_0	2.07%	Le (1KHz)	1.35 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

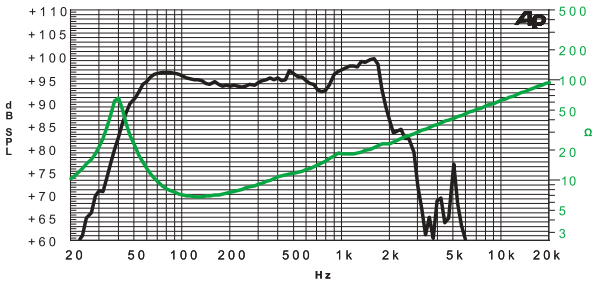
18 PF 4

18" | 2400 W

Code Z008394

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

SNDW DCSP TR TWpT HeF VMVc



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

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 cm²
X max (5)	+/- 8.0 mm	X var (6)	+/- 10.0 mm
η_0	1.67%	Le (1KHz)	1.85 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	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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

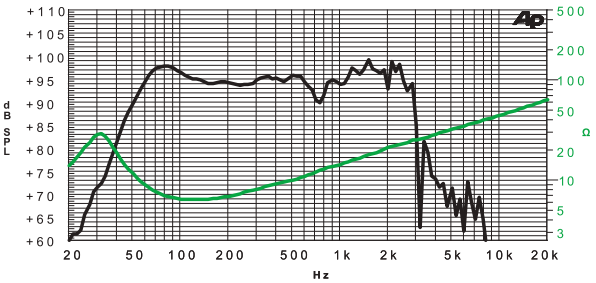
18 F 3 CP

18″ | 800 W

Code Z008362

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

DAR AWpT VM



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

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 cm²
X max (5)	+/- 6.5 mm	X var (6)	+/- 10.5 mm
η_0	1.84%	Le (1KHz)	1.41 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

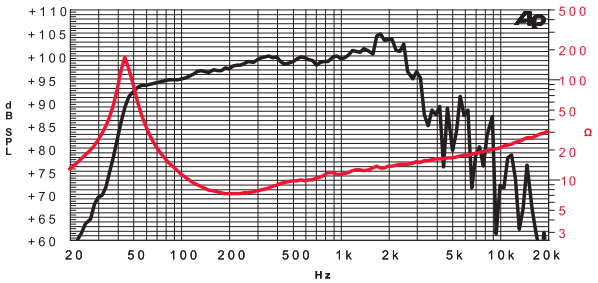
15 K 4 PL

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

SNDW DCSP DAR AWpT CDR VMVc



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

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 cm²
X max (5)	+/- 6.5 mm	X var (6)	+/- 10.5 mm
η_0	3.27%	Le (1KHz)	0.84 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

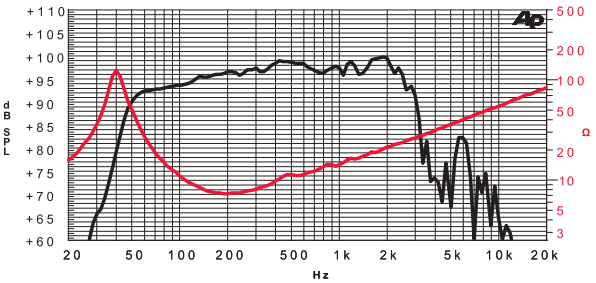
15 F 4 CP

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

SNDW DCSP DAR AWpT VMVc



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)	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 cm²
X max (5)	+/- 7.0 mm	X var (6)	+/- 10.0 mm
η_0	3.12%	Le (1KHz)	1.48 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	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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

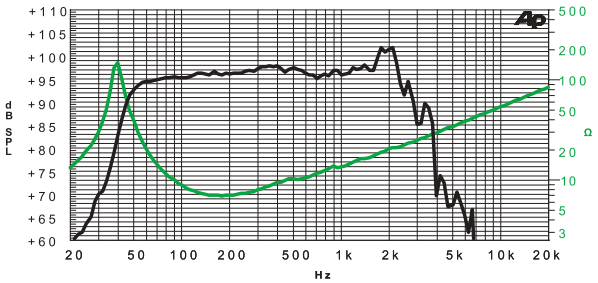
15 S 4 PL

15" | 2400 W

Code Z008175

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

SNDW DCSP DAR AWpT VMVc



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

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 cm²
X max (5)	+/- 8.5 mm	X var (6)	+/- 11.5 mm
η_0	2.50%	Le (1KHz)	1.38 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

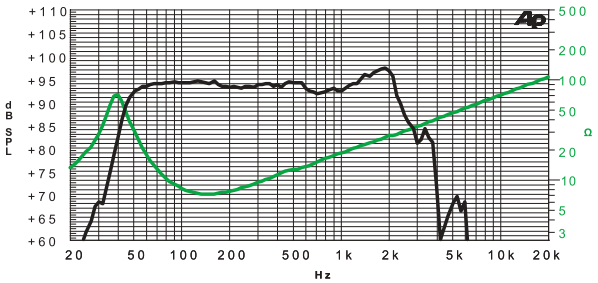
15 PFS 4

15" | 2400 W

Code Z008318

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

SNDW DCS TR TWpT HeF VMVc



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

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 cm²
X max (5)	+/- 9.0 mm	X var (6)	+/- 9.0 mm
η_0	1.61%	Le (1KHz)	1.80 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	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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxreferto frequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

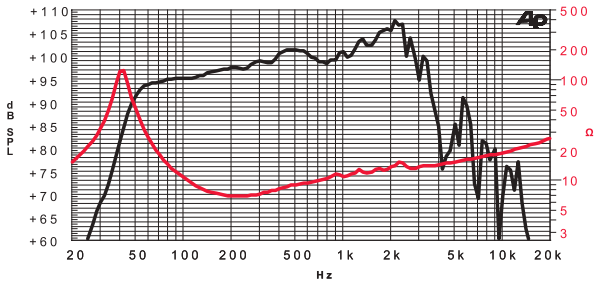
15 K 3 PL

15″ | 800 W

Code Z008331

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

SNDW PS DAR AWpT CDR VMVc



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

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 cm²
X max (5)	+/- 6.5 mm	X var (6)	+/- 11.0 mm
η_0	3.66%	Le (1KHz)	0.60 mH

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 inbox refer to frequency response. (4)Thiele&Small parameters measured with lasersystem 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

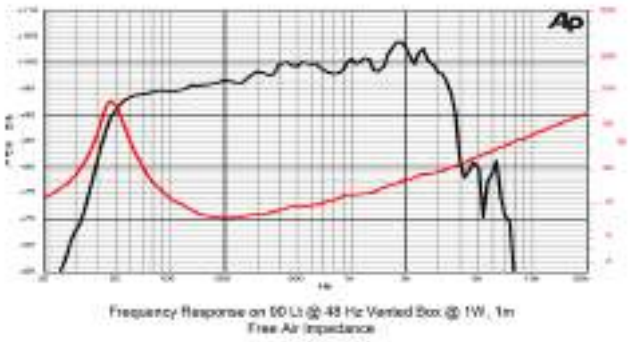
15 PF 3

15" | 1200 W

Code Z008316

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

SNDW TR TWpT BMF VM



Frequency Response on SD Ls @ 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)	600 W
Continuous Program Power (2)	1200 W
Sensitivity @ 1W/1m (3)	99.1 dB
Voice Coil Diameter	75 mm / 3 in
Voice Coil Winding Depth	17 mm
Magnetic Gap Depth	10 mm
Flux Density	1.46 T
Magnet Weight	2900 g
Net Weight	9.0 kg

Thiele & Small Parameters (4)			
Re	5.1 Ω	Fs	45.0 Hz
Qms	5.56	Qes	0.33
Qts	0.31	Mms	110.5 g
Cms	113 µm/N	Bxl	21.95 Tm
Vas	117.6 l	Sd	855.3 cm²
X max (5)	+/- 8.0 mm	X var (6)	+/- 10.0 mm
η_0	3.12%	Le (1KHz)	1.02 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	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	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

MADE IN ITALY

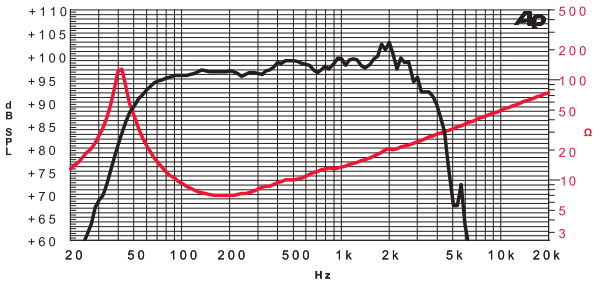
15 Fe 3 CP

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

SNDW WpT VM



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 cm²
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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

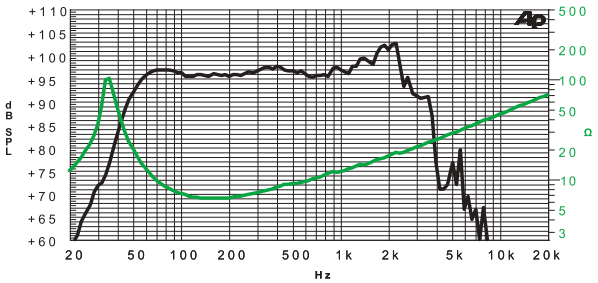
15 S 3 PL

15" | 800 W

Code Z008173

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

SNDW PS DAR AWpT HeN VMVc



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

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 cm²
X max (5)	+/- 8.0 mm	X var (6)	+/- 11.1 mm
η_0	2.06%	Le (1KHz)	1.15 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

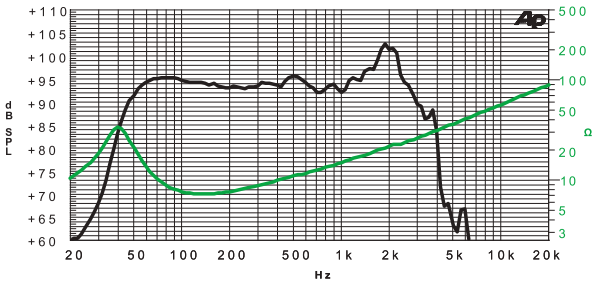
15 PFS 3

15" | 1000 W

Code Z008314

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

SNDW PS TR TWpT BMF VMVc



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

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

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

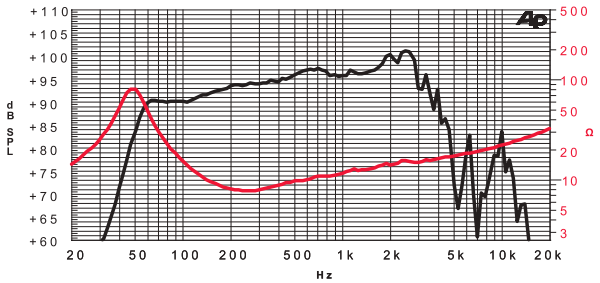
12 K 4 PL

12" | 2000 W

Code Z008020

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

SNDW DCSP DAR AWpT CDR VMVc



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)	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 cm²
X max (5)	+/- 7.0 mm	X var (6)	+/- 9.0 mm
η_0	1.99%	Le (1KHz)	0.74 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

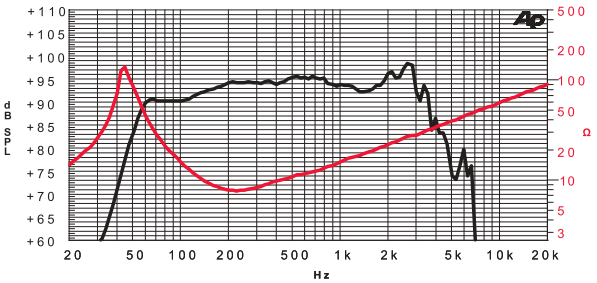
12 F 4 CP

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

SNDW DCSP DAR AWpT VMVc



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)	700 W
Continuous Program Power (2)	1400 W
Sensitivity @ 1W/1m (3)	97.8 dB
Voice Coil Diameter	100 mm / 4 in
Voice Coil Winding Depth	18 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	6.24	Qes	0.21
Qts	0.20	Mms	92.1 g
Cms	130 µm/N	Bxl	26.01 Tm
Vas	52.0 l	Sd	530.9 cm²
X max (5)	+/- 6.0 mm	X var (6)	+/- 10.0 mm
η_0	2.38%	Le (1KHz)	1.33 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	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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

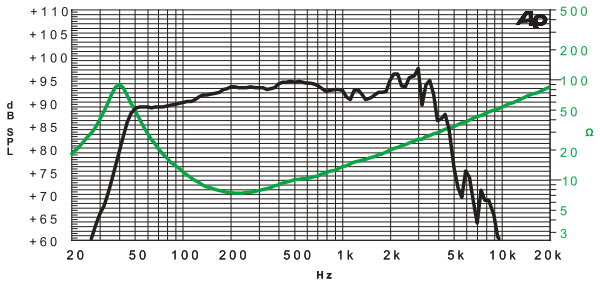
12 S 4 PL

12" | 2000 W

Code Z007951

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

SNDW DCSP DAR AWpT VMVc



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

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 cm²
X max (5)	+/- 7.5 mm	X var (6)	+/- 9.0 mm
η_0	1.39%	Le (1KHz)	1.15 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

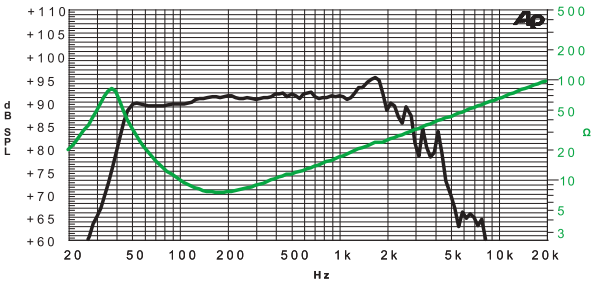
12 PFS 4

12" | 2000 W

Code Z007954

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

SNDW DCSP TR TWpT HeF VMVc



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

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 cm²
X max (5)	+/- 9.0 mm	X var (6)	+/- 10.0 mm
η_0	1.18%	Le (1KHz)	1.76 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	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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

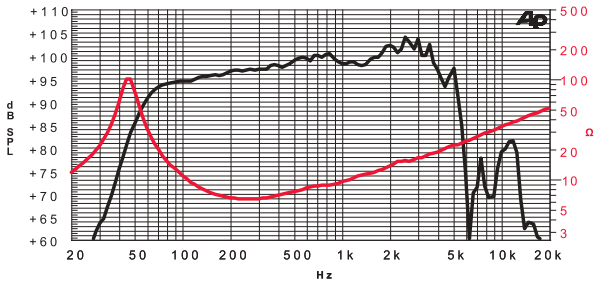
12 N 3 PL

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

SNDW PS DAR WpT VVC



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)	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 cm²
X max (5)	+/- 5.5 mm	X var (6)	+/- 9.0 mm
η_0	2.68%	Le (1KHz)	0.80 mH

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 lasersystem 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

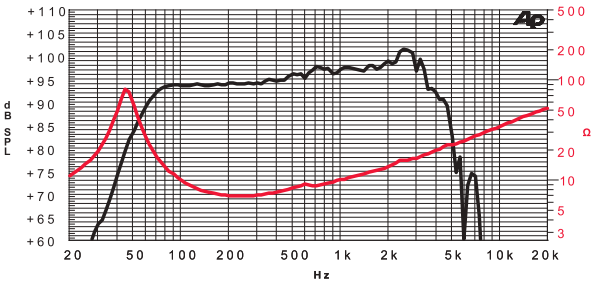
12 PF 3

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

SNDW PS TR TWpT BMF VMVc



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)	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 cm²
X max (5)	+/- 5.5 mm	X var (6)	+/- 8.5 mm
η_0	1.84%	Le (1KHz)	0.70 mH

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 lasersystem 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.

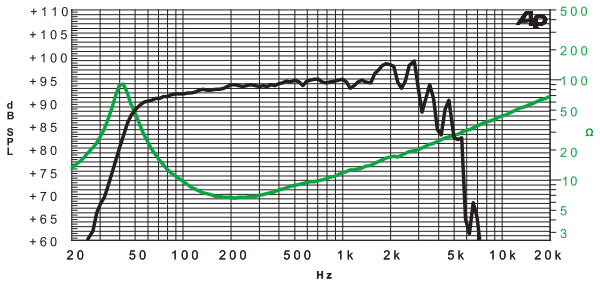
12 S 3 PL

12" | 800 W

Code Z007946

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

SNDW DCSP DAR AWpT HeN VMVc



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

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 cm²
X max (5)	+/- 7.0 mm	X var (6)	+/- 9.0 mm
η_0	1.51%	Le (1KHz)	1.04 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

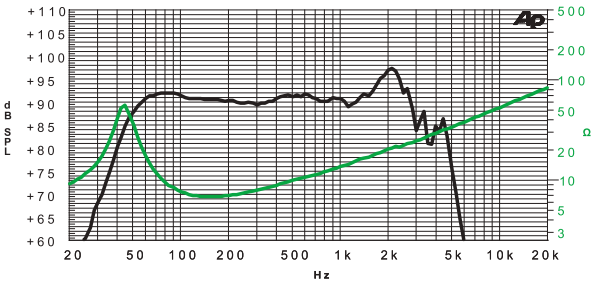
12 PFS 3

12" | 1000 W

Code Z007847

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

SNDW DCS TR TWpT HeF VMVc



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

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 cm²
X max (5)	+/- 7.0 mm	X var (6)	+/- 10.0 mm
η_0	0.86%	Le (1KHz)	1.07 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	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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

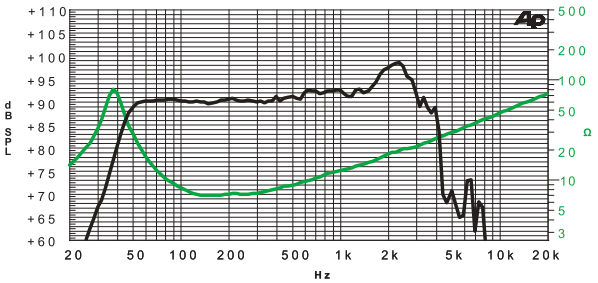
12 SR 3 PL

12" | 800 W

Code Z007948

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

SNDW DCS DAR WpT HeN VVc



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

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 cm²
X max (5)	+/- 7.0 mm	X var (6)	+/- 11.0 mm
η_0	0.61%	Le (1KHz)	1.15 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

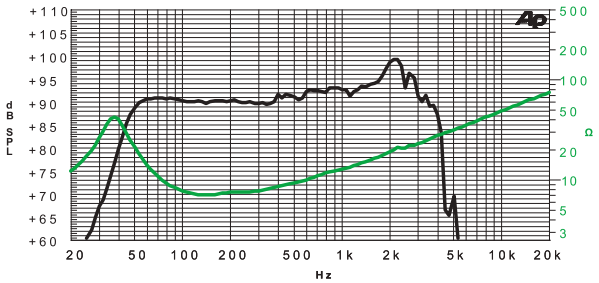
12 SR 3 CP

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

SNDW DCS DAR WpT HeF VMVc



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

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 cm²
X max (5)	+/- 6.0 mm	X var (6)	+/- 8.8 mm
η_0	0.67%	Le (1KHz)	1.14 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	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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

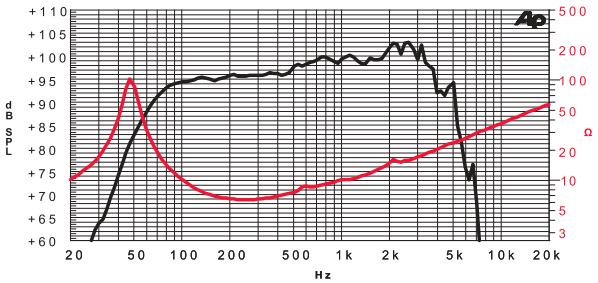
12 L1 2,5 SL

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

VMVc



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)	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 cm²
X max (5)	+/- 3.7 mm	X var (6)	+/- 6.0 mm
η_0	2.21%	Le (1KHz)	0.75 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

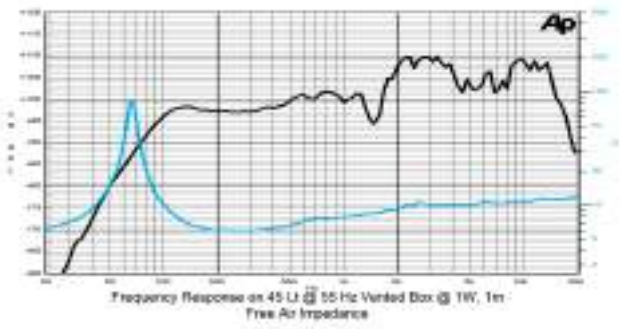
12 D 1,5 CS

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

CDR



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 cm²
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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

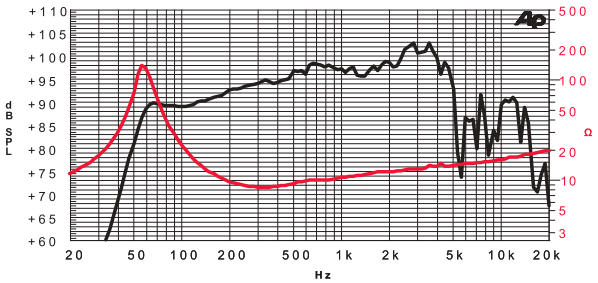
10 K 4 PL

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

SNDW PS DAR AWpT CDR VMVc



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

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 cm²
X max (5)	+/- 5.0 mm	X var (6)	+/- 7.0 mm
η_0	1.75%	Le (1KHz)	0.40 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

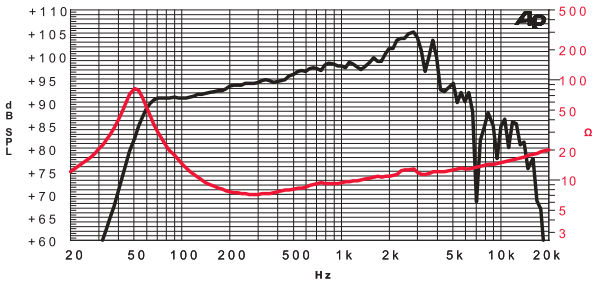
10 K 3 PL

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

SNDW PS DAR AWpT CDR VMVc



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)	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 cm²
X max (5)	+/- 6.5 mm	X var (6)	+/- 8.5 mm
η_0	1.85%	Le (1KHz)	0.49 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

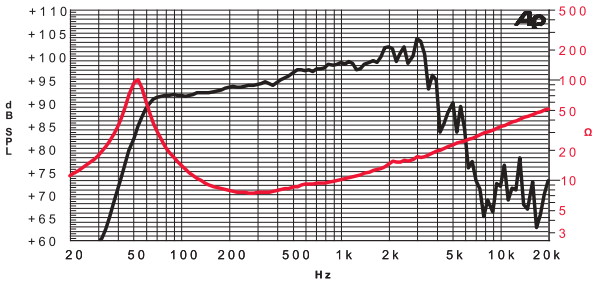
10 Fe 3 CP

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

SNDW PS DAR WpT BMF VMVc



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

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 cm²
X max (5)	+/- 5.0 mm	X var (6)	+/- 7.5 mm
η_0	1.63%	Le (1KHz)	0.67 mH

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 lasersystem 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

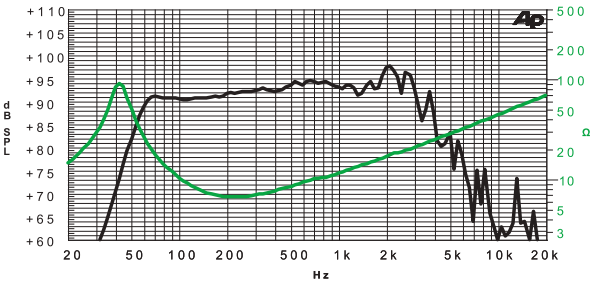
10 S 3 PL

10" | 800 W

Code Z006015

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

SNDW PS DAR AWpT HeN VMVc



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)	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 cm²
X max (5)	+/- 7.0 mm	X var (6)	+/- 9.0 mm
η_0	1.08%	Le (1KHz)	1.18 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

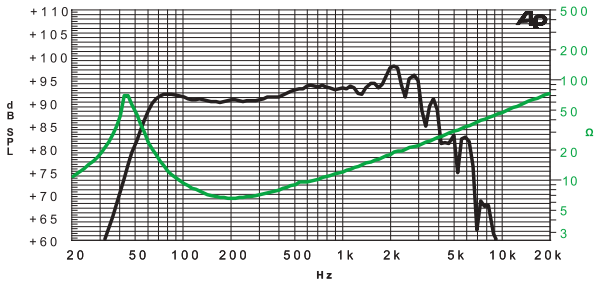
10 S 3 CP

10" | 900 W

Code Z006017

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

SNDW PS DAR AWpT HeF



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

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 cm²
X max (5)	+/- 7.0 mm	X var (6)	+/- 8.5 mm
η_0	0.91%	Le (1KHz)	1.19 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	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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

10 N 2,5 PL

10" | 600 W

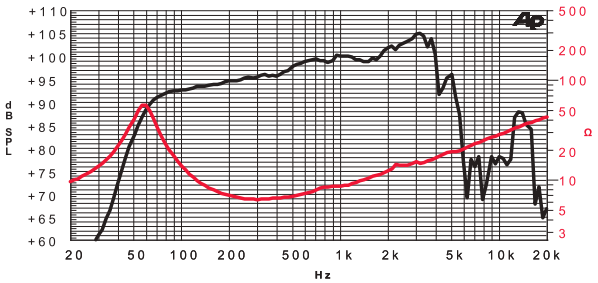
Code Z005701

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

PS DAR WpT VMVc

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 cm²
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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

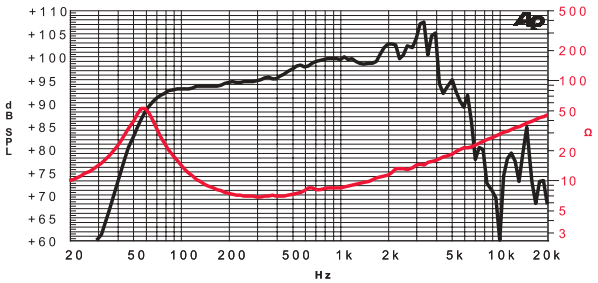
10 Fe 2,5 CP

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

PS DAR WpT BMF VMVc



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

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 cm²
X max (5)	+/- 4.0 mm	X var (6)	+/- 7.0 mm
η_0	1.76%	Le (1KHz)	0.46 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

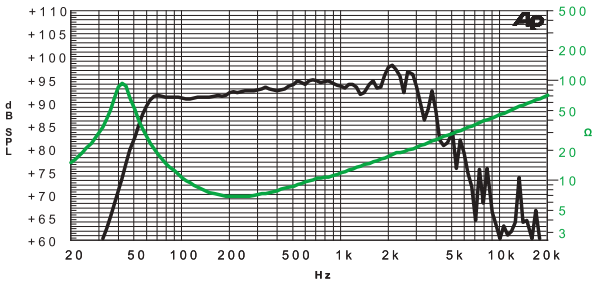
10 SR 2,5 CP

10" | 600 W

Code Z006013

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

RHE WpT HeF VMVc



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

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 cm²
X max (5)	+/- 6.0 mm	X var (6)	+/- 10.0 mm
η_0	0.78%	Le (1KHz)	1.16 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	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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

10" | 200 W

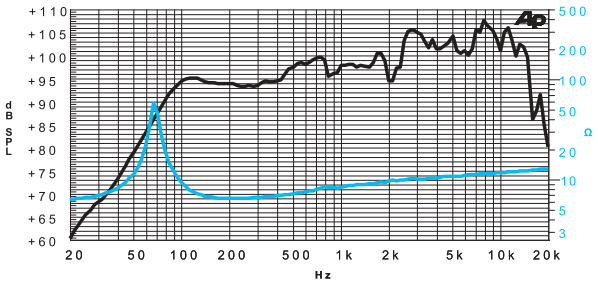
Code Z006510

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

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 cm²
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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

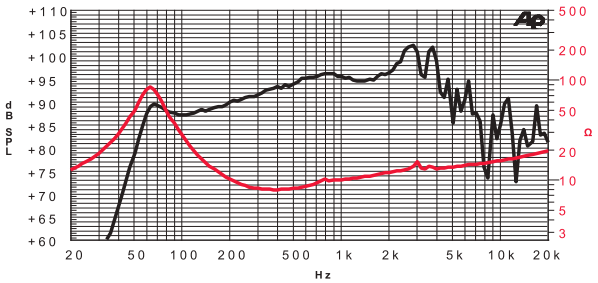
8 K 3 PL

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

SNDW PS DAR AWpT CDR VMVc



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)	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 cm²
X max (5)	+/- 5.0 mm	X var (6)	+/- 6.5 mm
η_0	1.38%	Le (1KHz)	0.37 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

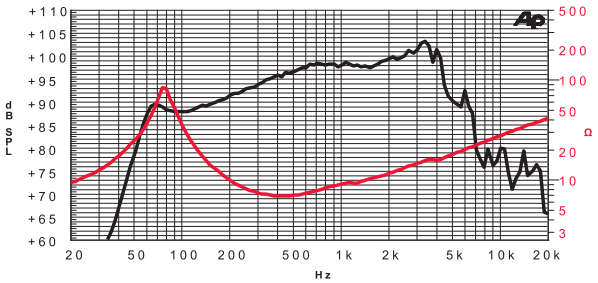
8 N 2,5 PL

8" | 600 W

Code Z005200

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

PS DAR WpT VMVc



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)	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 cm²
X max (5)	+/- 3.5 mm	X var (6)	+/- 6.2 mm
η_0	1.83%	Le (1KHz)	0.37 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

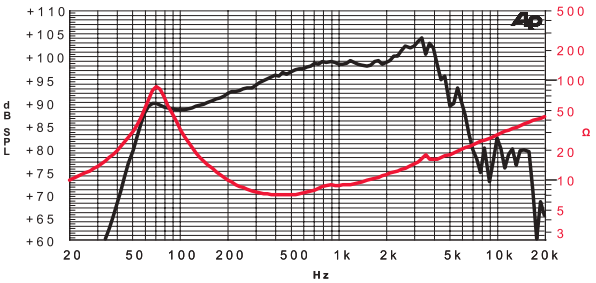
8 Fe 2,5 CP

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

PS DAR WpT BMF VMVc



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)	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 cm²
X max (5)	+/- 4.0 mm	X var (6)	+/- 6.5 mm
η_0	1.97%	Le (1KHz)	0.50 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

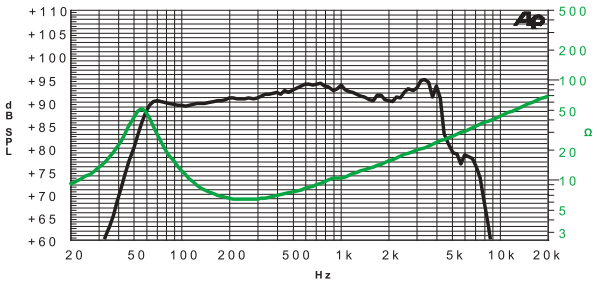
8 S 2,5 CP

8" | 600 W

Code Z005205

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

PS DAR WpT HeF VMVc



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)	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 cm²
X max (5)	+/- 5.0 mm	X var (6)	+/- 7.0 mm
η_0	0.76%	Le (1KHz)	1.00 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	210 mm
Baffle Cutout Diameter	184 mm
Mounting Holes	4 holes 5,5x7,5 on ø 196 mm
Total Depth	98 mm

(1)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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 H 2 CP

8″ | 400 W

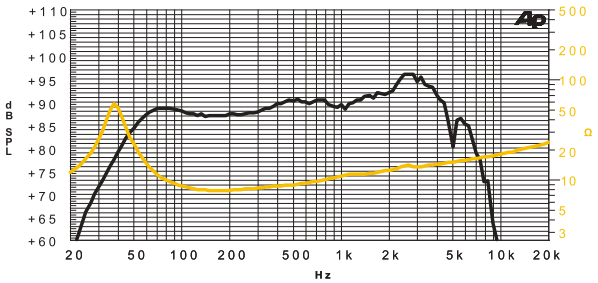
Code Z005158

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

PS DT CDR VM

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 cm²
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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

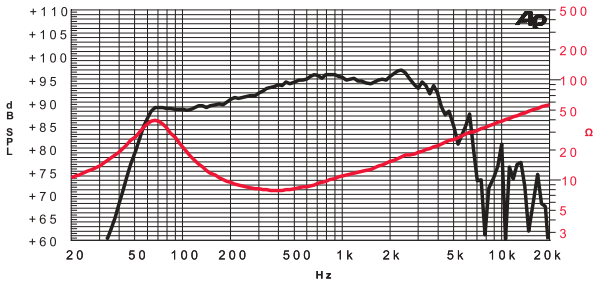
Code Z005055

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

VMVc

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 cm²
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 5x6.5 on ø 198.5 mm
Total Depth	94.5 mm

(1)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

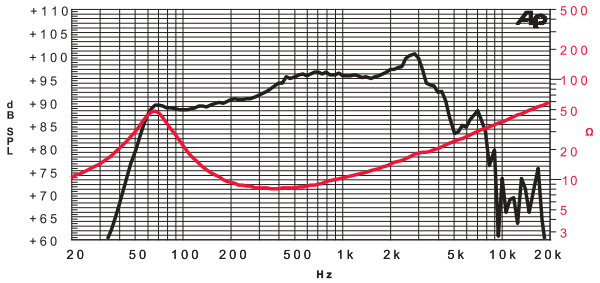
8 Fe 2 CP

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

DAR WpT BMF VM



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)	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 cm²
X max (5)	+/- 4.5 mm	X var (6)	+/- 7.0 mm
η_0	1.32%	Le (1KHz)	0.78 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	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

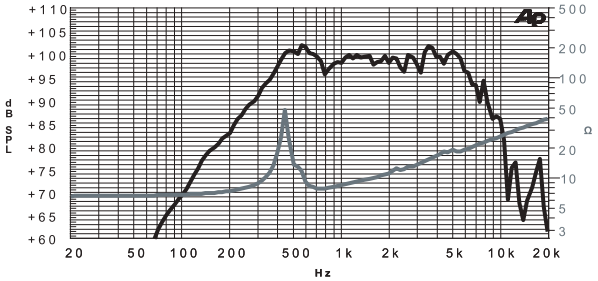
(1)Rated Power measured with 2-hour test with pink noise signal, 6dB crest factor, loudspeaker in free air, power calculated on rated Zmin. (2)Power on Continuous Program is defined as 3dB greater than the Rated Power. (3)Calculated by Thiele&Small parameters, for SPL average in box refer to frequency response. (4)Thiele&Small parameters measured with lasersystem 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

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



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

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 cm²
X max [5]	+/- 1.0 mm	X var [6]	+/- 1.0 mm
η_0	2.91%	Le (1KHz)	0.37 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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 D 1,5 CS

8″ | 260 W

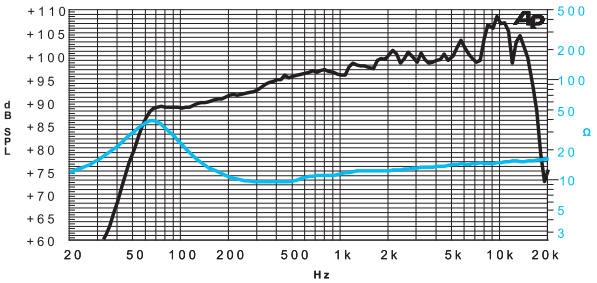
Code Z004950

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 cm²
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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

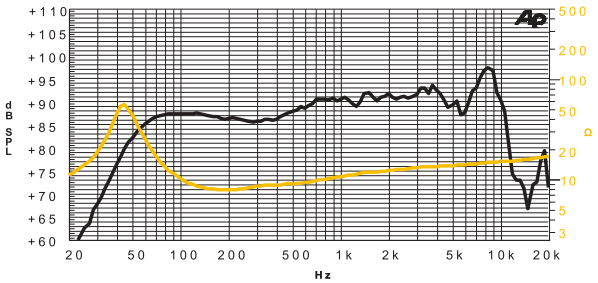
6,5 H 1,5 CP

6,5" | 240 W

Code Z004100

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

PS DAR DT CDR VMVc



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

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 cm²
X max (5)	+/- 6.0 mm	X var (6)	+/- 8.5 mm
η_0	0.40%	Le (1KHz)	0.48 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	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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

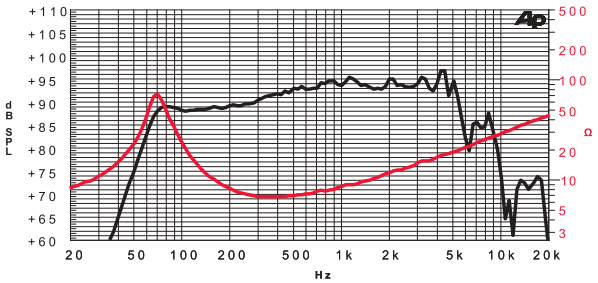
6 N 2,5 PL

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

SNDW PS DAR AWpT VMVc



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

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 cm²
X max (5)	+/- 4.5 mm	X var (6)	+/- 6.5 mm
η_0	0.84%	Le (1KHz)	0.62 mH

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.

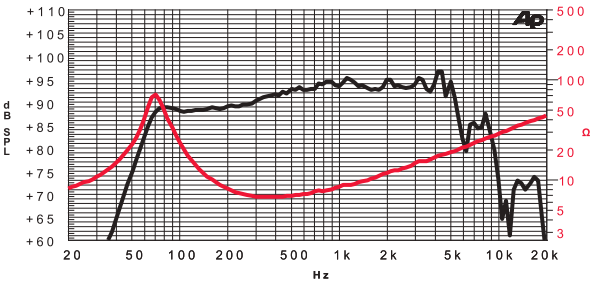
6 N 2 PL

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

PS DAR WpT VMVc



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

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 cm²
X max (5)	+/- 3.5 mm	X var (6)	+/- 5.0 mm
η_0	0.72%	Le (1KHz)	0.61 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

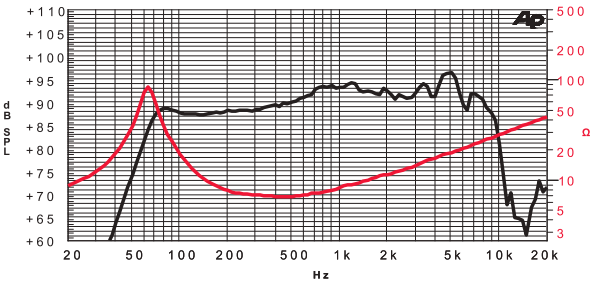
6 NR 2 PL

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

PS DAR WpT VMVc



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

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 cm²
X max (5)	+/- 4.0 mm	X var (6)	+/- 6.5 mm
η_0	0.58%	Le (1KHz)	0.51 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

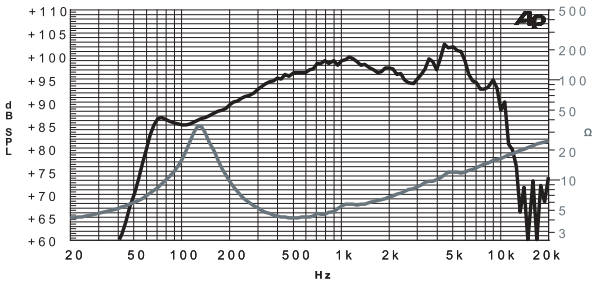
Code Z004079

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

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 cm²
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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

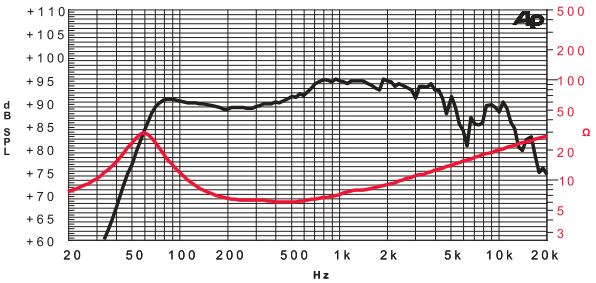
6 L 1,5 SL

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

DAR WpT VMVc



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

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 cm²
X max (5)	+/- 2.5 mm	X var (6)	+/- 3.9 mm
η_0	0.47%	Le (1KHz)	0.48 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

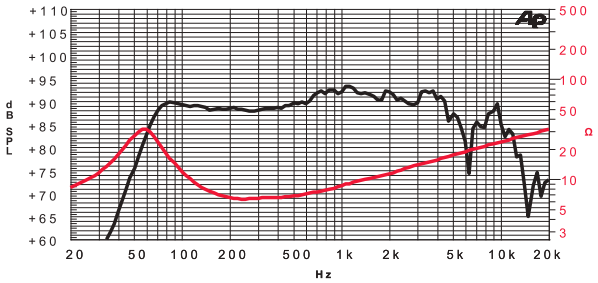
6 E 1,5 CS

6" | 200 W

Code Z004035

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

DAR WpT VVc



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

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 cm²
X max (5)	+/- 2.5 mm	X var (6)	+/- 4.5 mm
η_0	0.53%	Le (1KHz)	0.61 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

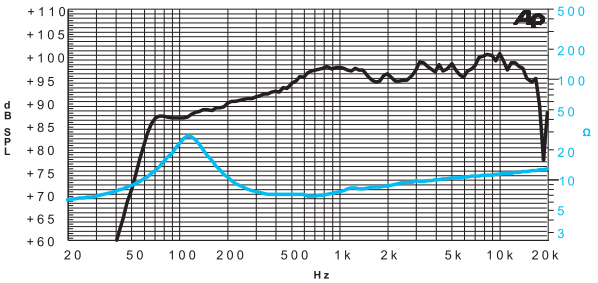
6 D 1,5 SL

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



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

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 cm²
X max (5)	+/- 1.5 mm	X var (6)	+/- 4.0 mm
η_0	0.92%	Le (1KHz)	0.22 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

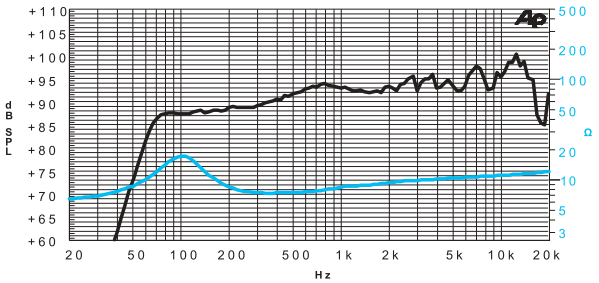
6 D 1,5 CS

6" | 200 W

Code Z004002

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

CDR



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

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)	91.7 dB
Voice Coil Diameter	38 mm / 1.5 in
Voice Coil Winding Depth	10 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	6.0 Ω	Fs	108.5 Hz
Qms	3.12	Qes	0.79
Qts	0.63	Mms	10.4 g
Cms	207 µm/N	Bxl	7.38 Tm
Vas	4.4 l	Sd	122.7 cm²
X max (5)	+/- 1.5 mm	X var (6)	+/- 4.0 mm
η_0	0.69%	Le (1KHz)	0.20 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	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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

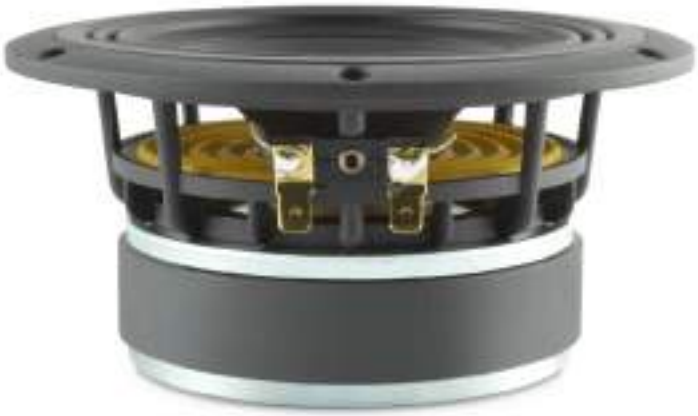
MADE IN ITALY

5,5 H 1,5 CP

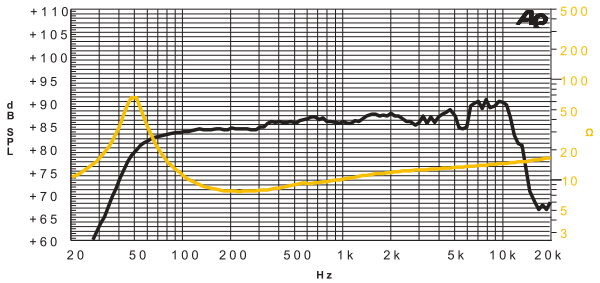
5,5" | 240 W

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



DAR DT CDR VM



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

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

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

5" | 260 W

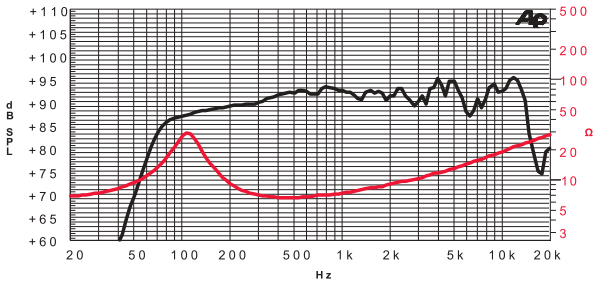
Code Z002647

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

WpT VVc

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 cm²
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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

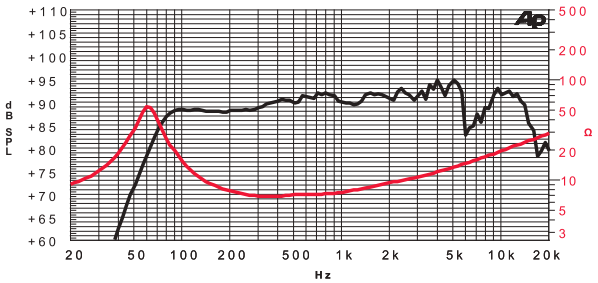
5 NR 1,5 PL

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

DAR WpT VVc



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

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 cm²
X max (5)	+/- 3.5 mm	X var (6)	+/- 6.0 mm
η_0	0.42%	Le (1KHz)	0.34 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

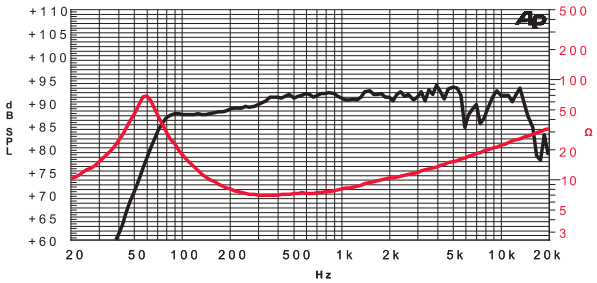
5 F 1,5 CP

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

DAR WpT VVc



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

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 cm²
X max (5)	+/- 3.5 mm	X var (6)	+/- 6.0 mm
η_0	0.51%	Le (1KHz)	0.48 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

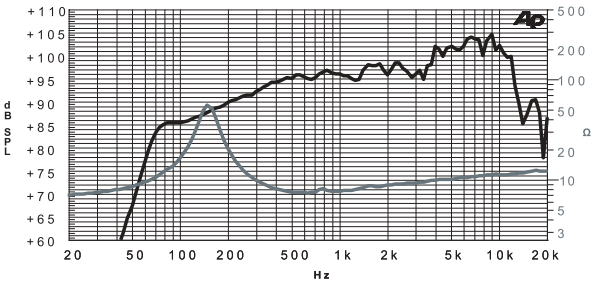
5 M 1,5 PL

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

AWpT CDR VVc



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

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

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

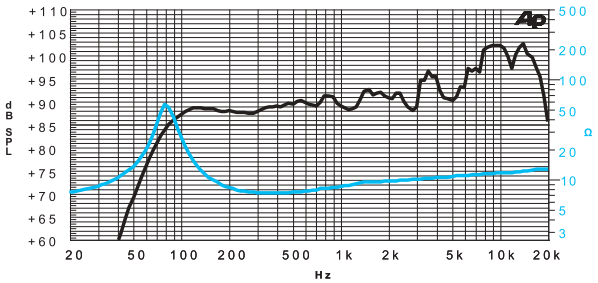
5 D 1 CS

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

WpT CDR



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

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 cm²
X max (5)	+/- 3.0 mm	X var (6)	+/- 4.5 mm
η_0	0.45%	Le (1KHz)	0.33 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

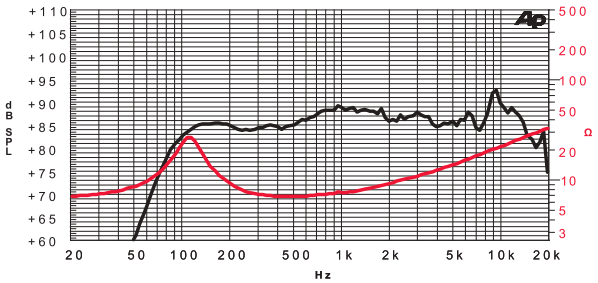
4 L 1 SL

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

WpT BNd



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

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 cm²
X max (5)	+/- 2.4 mm	X var (6)	+/- 4.0 mm
η_0	0.19%	Le (1KHz)	0.37 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

4" | 140 W

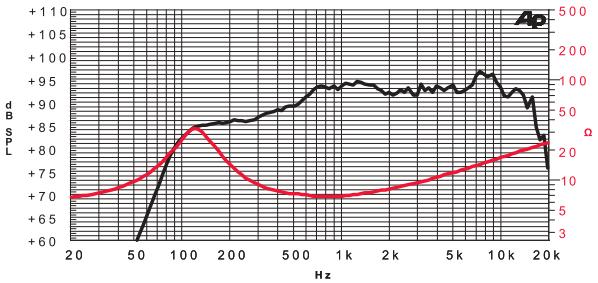
Code Z001804

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

WpT

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 cm²
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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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 E 1 CS

4" | 140 W

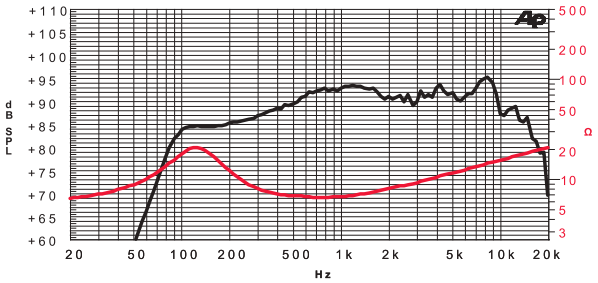
Code Z001800

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

WpT

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 cm²
X max [5]	+/- 2.2 mm	X var [6]	+/- 3.5 mm
η_0	0.42%	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	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

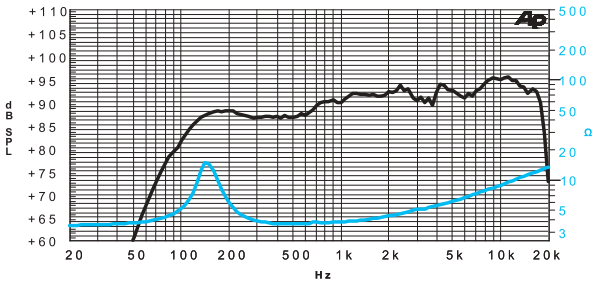
(1)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

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



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

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 cm²
X max (5)	+/- 1.3 mm	X var (6)	+/- 3.0 mm
η_0	0.26%	Le (1KHz)	0.14 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

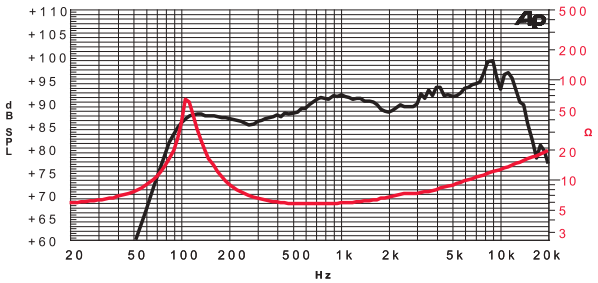
3,5 L 1 SL

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

WpT BNd VVc



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

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

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

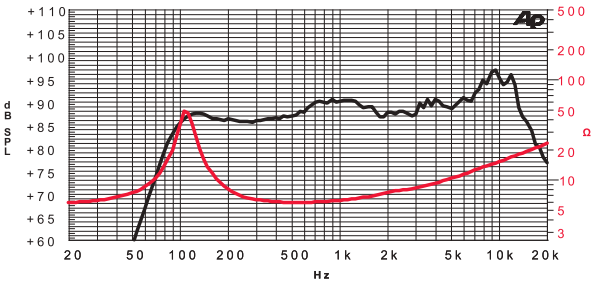
3,5 F 1 CS

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

WpT



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

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 cm²
X max (5)	+/- 1.5 mm	X var (6)	+/- 3.1 mm
η_0	0.26%	Le (1KHz)	0.21 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

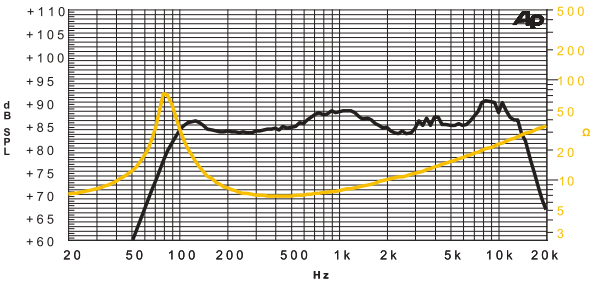
3,5 H 1 CS

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

DT VVc



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

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 cm²
X max (5)	+/- 2.5 mm	X var (6)	+/- 4.2 mm
η_0	0.19%	Le (1KHz)	0.4 mH

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

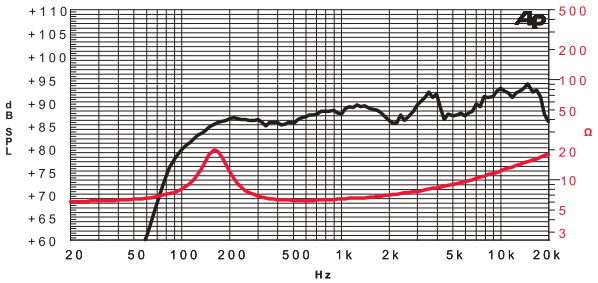
(1)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

3" | 40 W

Code Z000900

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



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

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 cm²
X max (5)	+/- 1.5 mm	X var (6)	+/- 2.5 mm
η_0	0.18%	Le (1KHz)	0.11 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

2,5″ | 40 W

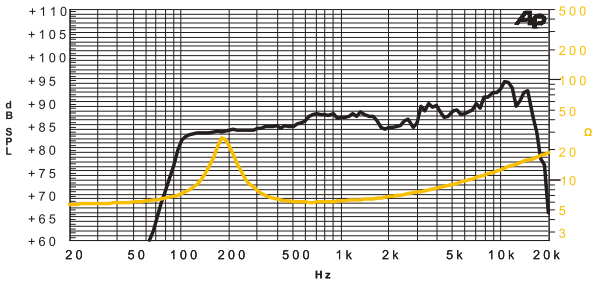
Code Z000855

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

DT VM

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 cm²
X max (5)	+/- 1.3 mm	X var (6)	+/- 2.6 mm
η_0	0.14%	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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

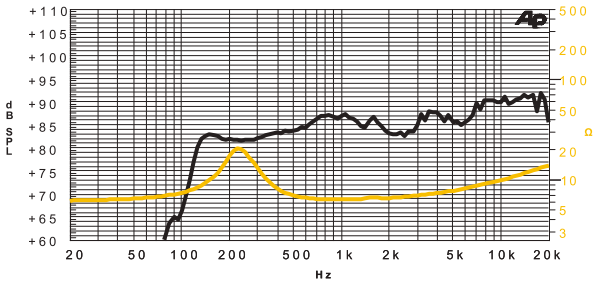
2 H 0,8 SL

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

DT VM



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

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 cm²
X max (5)	+/- 1.4 mm	X var (6)	+/- 2.7 mm
η_0	0.11%	Le (1KHz)	0.20 mH

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

Coaxial

CX

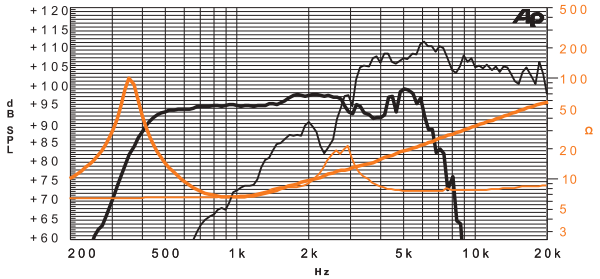
12 Cx 3 CP

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

SNDW TD DAR WpT



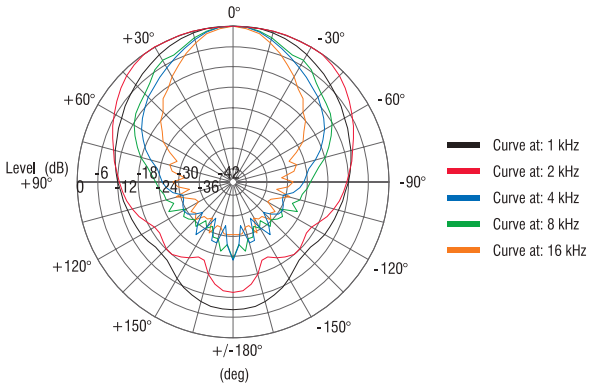
Frequency Response on 45 Lt @ 55 Hz Vented Box @ 1W, 1m. Free Air Impedance.

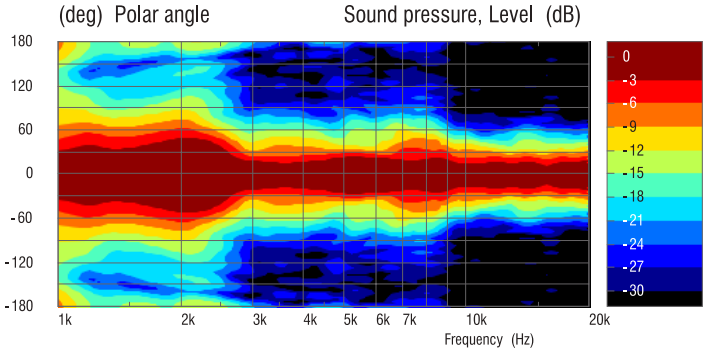
General Specifications	LF unit	HF unit
Nominal Diameter	321 mm / 12 in	
Nominal Impedance	8 Ω	8 Ω
Rated Power AES (1)	400 W	60 W
Continuous Program Power (2)	800 W	120 W
Sensitivity @ 1W/1m (3)	98.0 dB	106.2 dB
Voice Coil Diameter	75 mm / 3 in	44 mm / 1.7 in
Voice Coil Winding Depth	15 mm	2.6 mm
Magnetic 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 cm²
X max (5)	+/- 4.5 mm	X var (6)	+/- 8.0 mm
η_0	2.38%	Le (1KHz)	1.02 mH

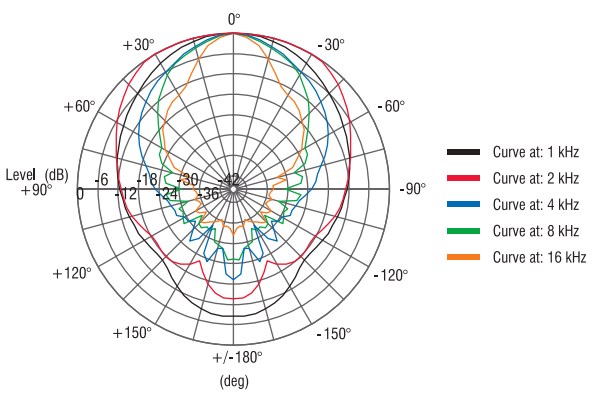
Constructive Characteristics	
Magnet	Ferrite
Basket Material	Aluminium Die-Cast
LF Voice Coil Winding/Former Material	Copper / Fiberglass
HF Voice Coil Winding/Former Material	Aluminium Flat Wire / Kapton
LF Cone Material	Paper
HF Dome Material	Titanium
Surround Material	Treated Cloth
HF Spare Part Code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

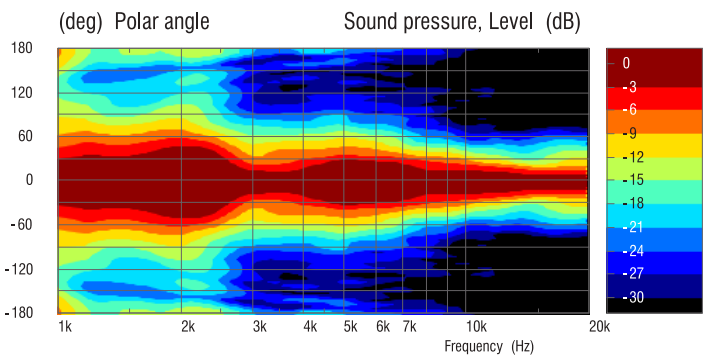
Z007996 - Horizontal Directivity





Z007996 - Vertical Directivity





(1)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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

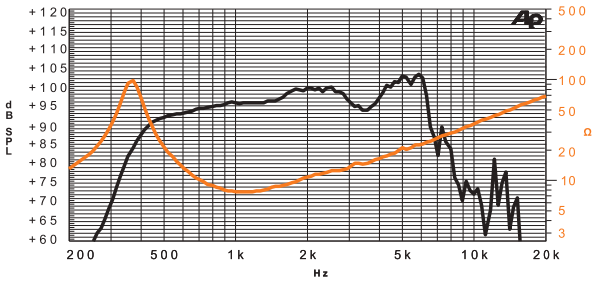
12 C 2,5 CP

12" | 600 W

Code Z007857

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

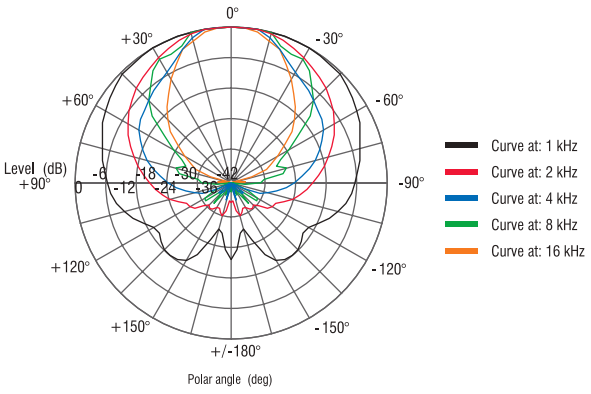


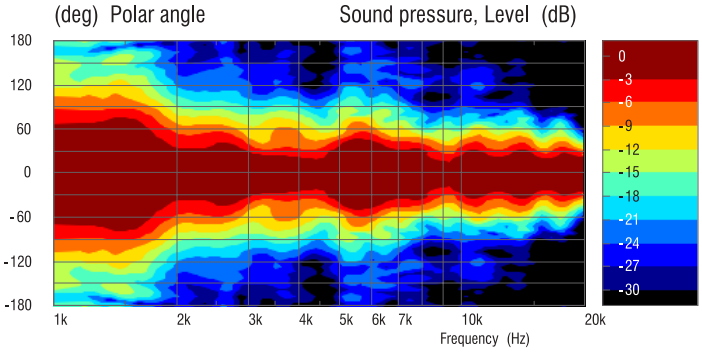
Frequency Response on 45 Lt @ 55 Hz Vented Box @ 1W, 1m. Free Air Impedance.

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 cm²
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

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

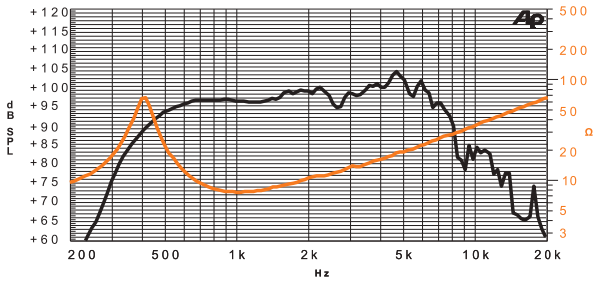
12 C 2 CP

12" | 400 W

Code Z007852

2" voice coil Kapton former
Cloth surround with Double Asymmetric Rolls Technology (DAR)
1" throath 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

DAR



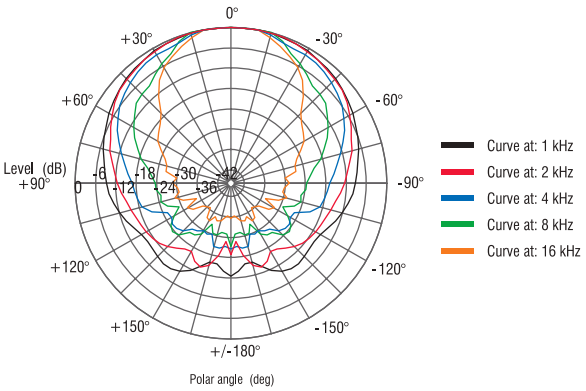
Frequency Response on 45 Lt @ 55 Hz Vented Box @ 1W, 1m. Free Air Impedance.

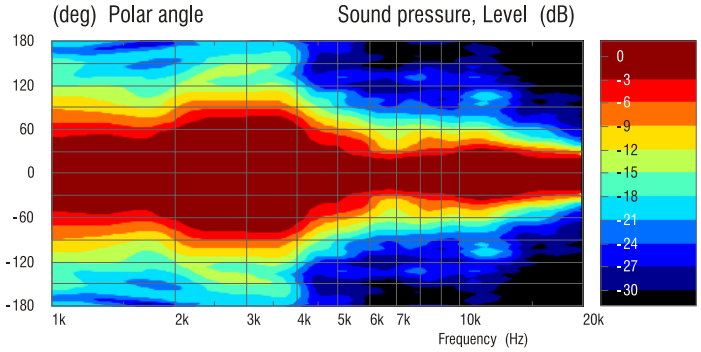
General Specifications			
Nominal Diameter	320 mm / 12 in		
Nominal Impedance	8 Ω		
Rated Power AES (1)	200 W		
Continuous Program Power (2)	400 W		
Sensitivity @ 1W/1m (3)	98.0 dB		
Voice Coil Diameter	50 mm / 2 in		
Voice Coil Winding Depth	14 mm		
Magnetic Gap Depth	8 mm		
Flux Density	1.08 T		
Magnet 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 cm²
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
Throath Diameter for Compression Driver	25.4 mm
Compression Driver Mounting Holes	4 holes M4 on ø 95 mm

MADE IN ITALY

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,loudspeakerinfreeair,powercalculatedonratedZmin.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRated Power.(3)CalculatedbyThiele&Smallparameters,forSPLaverageinboxrefertofrequencyresponse.(4)Thiele&Smallparametersmeasuredwithlasersystemafterpreconditioningtest.(5)Measuredwithrespect 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.

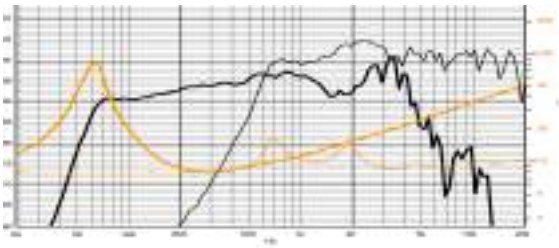
10 Cx 3 PL

12" | 800 W

Code Z005839P-8+8

LF 3" Sandwich voice coil Fiberglass former and Alumium Winding
HF Polymide dome 1,7" voice coil Flat Aluminium wire
Cloth surround with Double Asymmetric Rolls Technology (DAR)
Waterproof Cone Treatment (WpT)
Neodymium Magnet Circuit
100° nominal coverage
97.2 dB sensitivity
Frequency Range 60-20000 Hz

SNDW DAR WpT

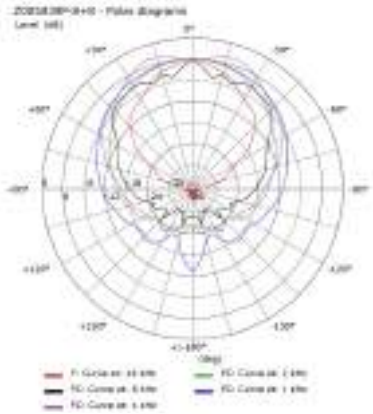


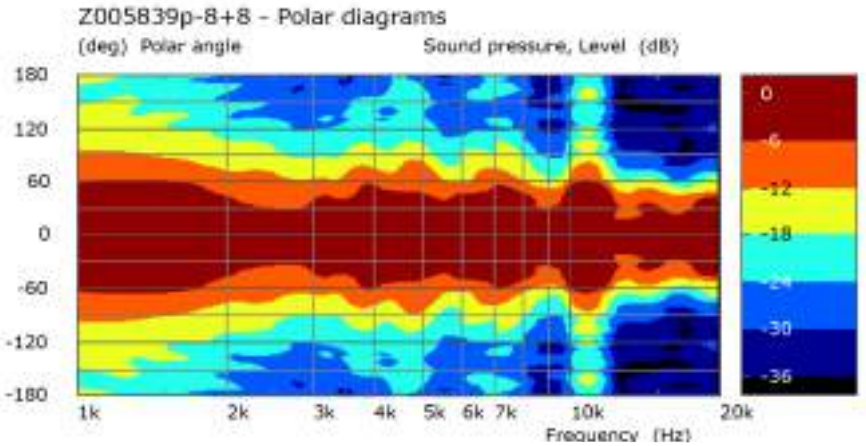
Frequency Response on 35 Lt @ 60 Hz Vented Box @ 1W, 1m
Free Air Impedance

General Specifications	LF unit	HF unit
Nominal Diameter	268 mm / 10 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)	97.2 dB	102.1 dB
Voice Coil Diameter	75 mm / 3 in	44 mm / 1.7 in
Voice Coil Winding Depth	17 mm	2.6 mm
Magnetic Gap Depth	10 mm	3 mm
HF Recomm. Crossover Frequency		1.6 kHz
Magnet Weight	532 g	
Net Weight	4.3 kg	

Thiele & Small Parameters (4)			
Re (LF)	5.7 Ω	Fs (LF)	59.0 Hz
Re (HF)	6.0 Ω	Fs (HF)	700 Hz
Qms	4.13	Qes	0.31
Qts	0.29	Mms	34.3 g
Cms	212 µm/N	Bxl	15.32 Tm
Vas	36.1 l	Sd	346.4 cm²
X max (5)	+/- 6.0 mm	X var (6)	+/- 8.0 mm
η_0	2.32%	Le (1KHz)	0.84 mH

Constructive Characteristics	
Magnet	Neodymium
Basket Material	Aluminium Die-Cast
LF Voice Coil Winding/Former Material	Aluminium / Fiberglass
HF Voice Coil Winding/Former Material	Aluminium Flat Wire / Kapton
LF Cone Material	Paper
HF Dome Material	Polymide
Surround Material	Treated Cloth
HF Spare Part Code	Z009396P-FI
Mounting Information	
Overall Diameter	268 mm
Baffle Cutout Diameter	232 mm
Mounting Holes	8 holes 6x9 on ø 247 mm
Total Depth	139.1 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

MADE IN ITALY

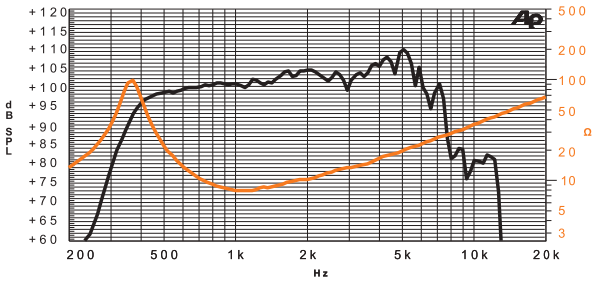
10 C 2 CP

10" | 400 W

C o d e

2" voice coil Kapton former
Cloth surround with Double Asymmetric Rolls Technology (DAR)
1" throath 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

DAR

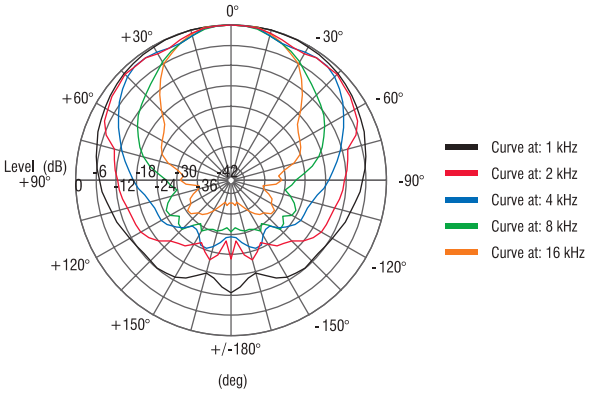


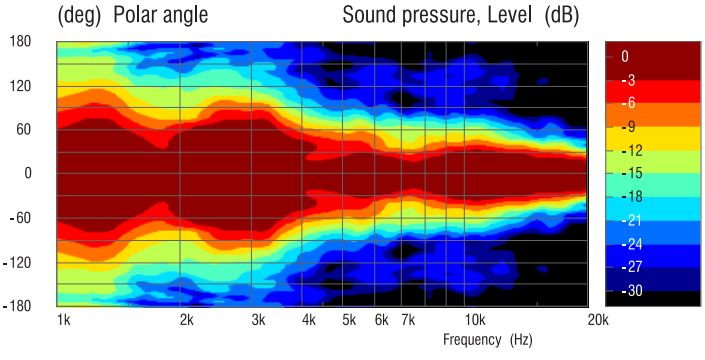
Frequency Response on 35 Lt @ 60 Hz Vented Box @ 1W, 1m. Free Air Impedance.

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 cm²
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
Throath Diameter for Compression Driver	25.4 mm
Compression Driver Mounting Holes	4 holes M4 on ø 95 mm

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

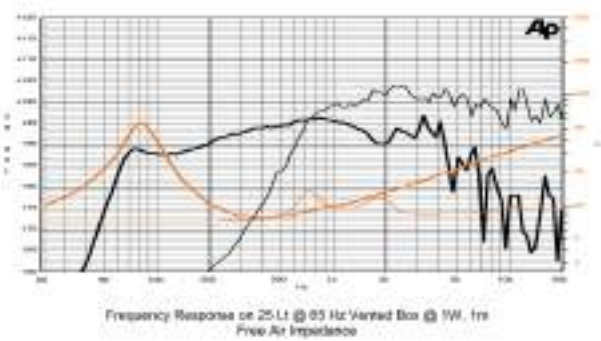
8 Cx 2,5 PL

8" | 600 W

Code Z005209P-8+8

LF 2,5" Sandwich voice coil Fiberglass former and Aluminium Winding
HF Titanium dome 1,7" voice coil Flat Aluminium wire
Cloth surround with Double Asymmetric Rolls Technology (DAR)
Waterproof Cone Treatment (WpT)
Neodymium Magnet Circuit
100° nominal coverage
96.7 dB sensitivity
Frequency Range 75-20000 Hz

SNDW DAR WpT

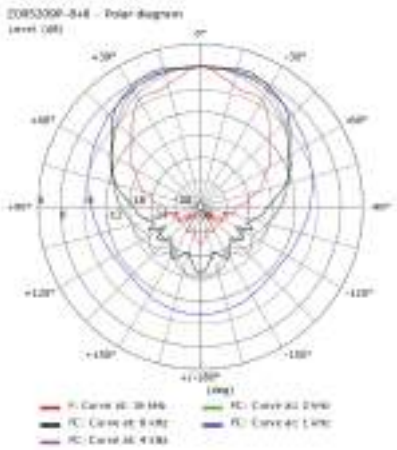


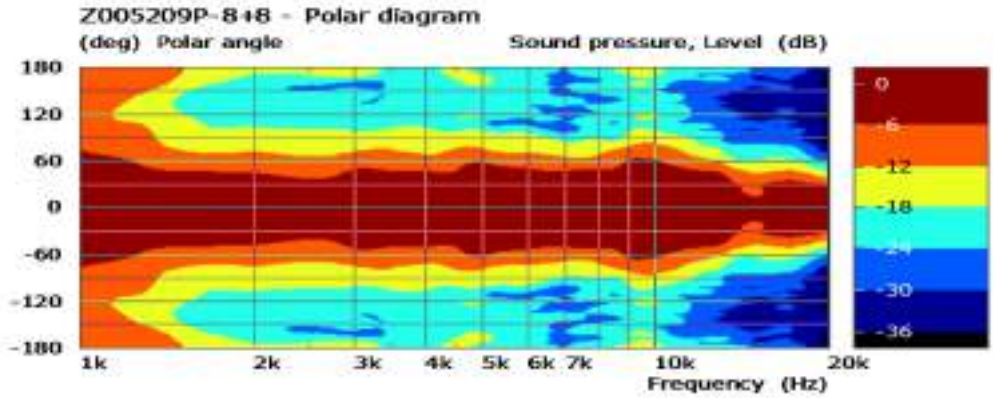
Frequency Response on 25-Lt @ 85 Hz Vented Box @ 1W, 1m
Free Air Impedance

General Specifications	LF unit	HF unit
Nominal Diameter	210 mm / 10 in	
Nominal Impedance	8 Ω	8 Ω
Rated Power AES (1)	300 W	60 W
Continuous Program Power (2)	600 W	120 W
Sensitivity @ 1W/1m (3)	96.7 dB	106.2 dB
Voice Coil Diameter	65 mm / 2,5 in	44 mm / 1.7 in
Voice Coil Winding Depth	15 mm	2.6 mm
Magnetic Gap Depth	8 mm	3 mm
HF Recomm. Crossover Frequency		1.6 kHz
Magnet Weight	364 g	
Net Weight	2.3 kg	

Thiele & Small Parameters (4)			
Re (LF)	5.6 Ω	Fs (LF)	74.0 Hz
Re (HF)	6.0 Ω	Fs (HF)	700 Hz
Qms	2.63	Qes	0.32
Qts	0.28	Mms	18.5 g
Cms	251 µm/N	Bxl	12.34 Tm
Vas	16.2 l	Sd	213.8 cm²
X max (5)	+/-5.0 mm	X var (6)	+/- 6.5 mm
η_0	1.99%	Le (1KHz)	0.60 mH

Constructive Characteristics	
Magnet	Neodymium
Basket Material	Aluminium Die-Cast
LF Voice Coil Winding/Former Material	Aluminium / Fiberglass
HF Voice Coil Winding/Former Material	Aluminium Flat Wire / Kapton
LF Cone Material	Paper
HF Dome Material	Polymide
Surround Material	Treated Cloth
HF Spare Part Code	Z009396P-FI
Mounting Information	
Overall Diameter	210 mm
Baffle Cutout Diameter	184 mm
Mounting Holes	4 holes 5.5x7.5 on ø 196 mm
Total Depth	111.6 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

MADE IN ITALY

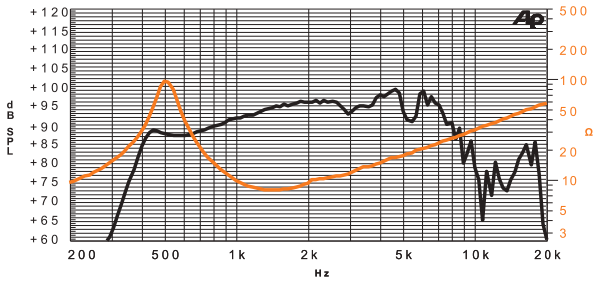
8 C 2 CP

8" | 400 W

C o d e

2" voice coil Kapton former
Cloth surround with Double Asymmetric Rolls Technology (DAR)
1" throath 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

DAR



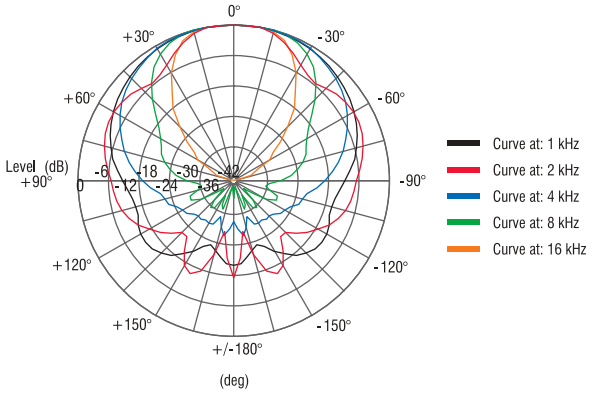
Frequency Response on 25 Lt @ 65 Hz Vented Box @ 1W, 1m. Free Air Impedance.

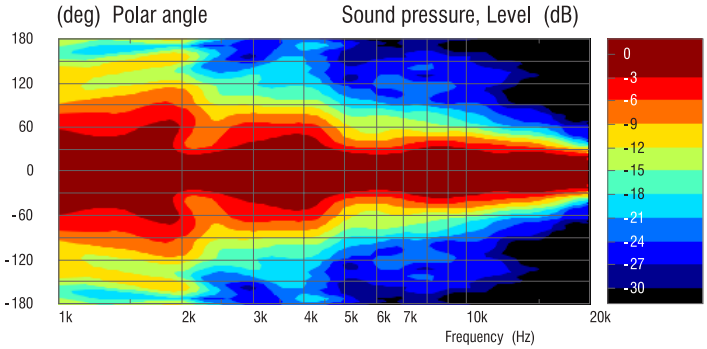
General Specifications			
Nominal Diameter			210 mm / 8 in
Nominal Impedance			8 Ω
Rated Power AES [1]			200 W
Continuous Program Power [2]			400 W
Sensitivity @ 1W/1m [3]			96.7 dB
Voice Coil Diameter			50 mm / 2 in
Voice Coil Winding Depth			14 mm
Magnetic Gap Depth			8 mm
Flux Density			1.08 T
Magnet 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 cm²**
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
Throath Diameter for Compression Driver	25.4 mm
Compression Driver Mounting Holes	4 holes M4 on ø 95 mm

MADE IN ITALY

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

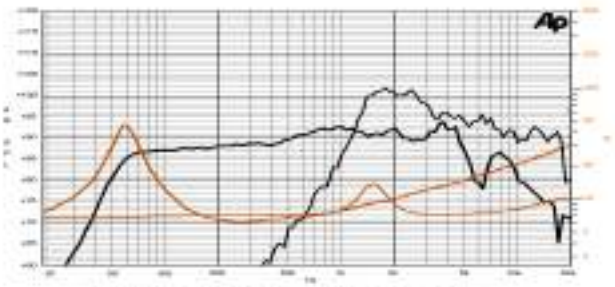
6,5 C 1,5 CP

6,5" | 240 W

Code Z004102

LF 1,5" voice coil Kapton former
HF Treated Silk dome 1" voice coil
Rubber surround with Double Asymmetric Rolls Technology (DAR)
Damping Cone Treatment (DT)
LF Ferrite Magnet Circuit
HF Neodymium Magnet Circuit
91.3 dB sensitivity
Frequency Range 55-18000 Hz

DAR DT

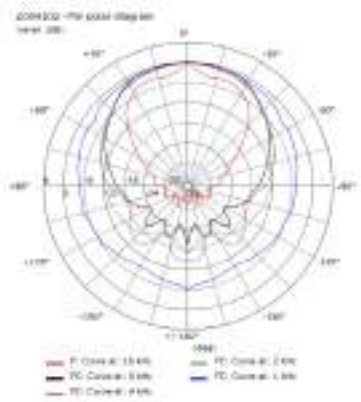


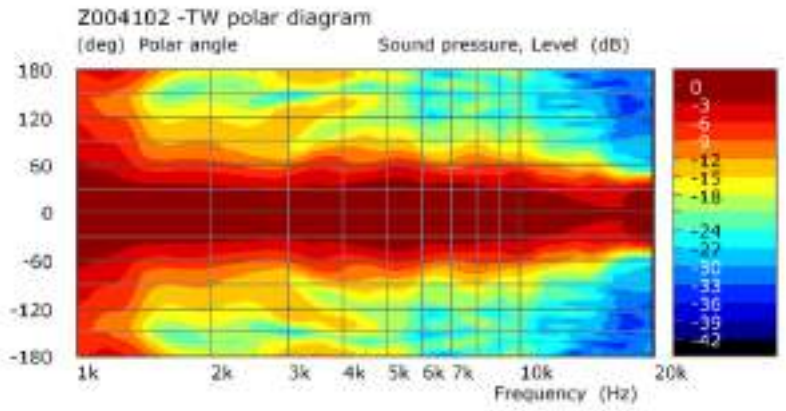
Frequency Response on 16 Lt @ 50 Hz Vented Box @ 1W, 1m
Free Air Impedance

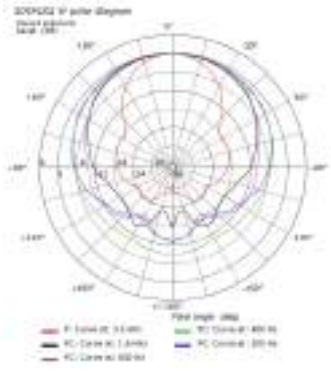
General Specifications	LF unit	HF unit
Nominal Diameter	174 mm / 6,5 in	
Nominal Impedance	8 Ω	8 Ω
Rated Power AES [1]	120 W	
Continuous Program Power [2]	240 W	
Sensitivity @ 1W/1m [3]	91.3 dB	93.9 dB
Voice Coil Diameter	38 mm / 1,5 in	25 mm / 1 in
Voice Coil Winding Depth	12 mm	1,7 mm
Magnetic Gap Depth	5 mm	2 mm
HF Recomm. Crossover Frequency		2,5 kHz
Magnet Weight	515 g	14 g
Net Weight	1,7 kg	

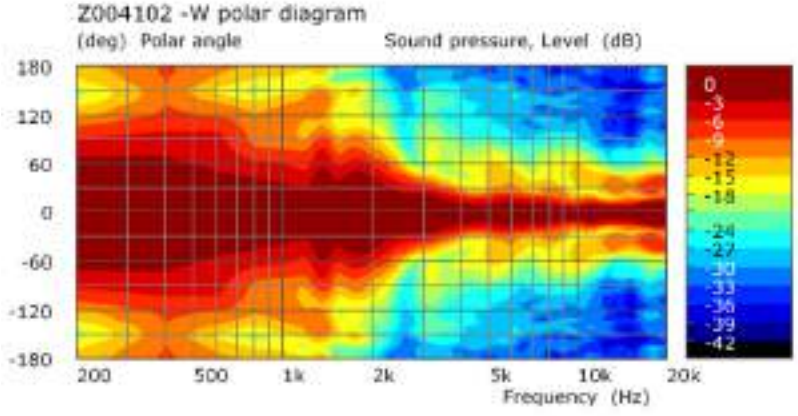
Thiele & Small Parameters [4]			
Re (LF)	5.1 Ω	Fs (LF)	56.8 Hz
Re (HF)	6.0 Ω	Fs (HF)	1500 Hz
Qms	4.05	Qes	0.43
Qts	0.39	Mms	13.1 g
Cms	599 µm/N	Bxl	7.43 Tm
Vas	12.8 l	Sd	122.7 cm²
X max [5]	+/- 4.5 mm	X var [6]	+/- 8.0 mm
η_0	0.52%	Le (1KHz)	0.44mH

Constructive Characteristics	
Magnet	Ferrite(LF) / Neodymium (HF)
Basket Material	Aluminium Die-Cast
LF Voice Coil Winding/Former Material	Copper / Kapton
HF Voice Coil Winding/Former Material	Copper / Aluminium
LF Cone Material	Paper
HF Dome Material	Treated Silk
Surround Material	Rubber
HF Spare Part Code	Z008955
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	79.5 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

MADE IN ITALY

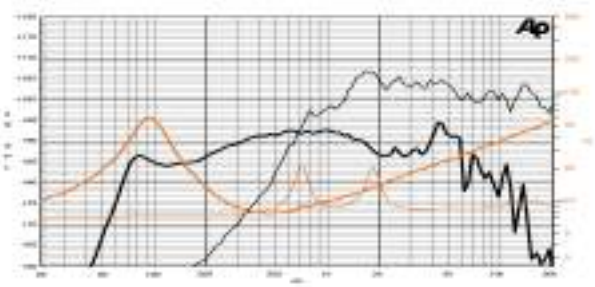
6 Cx 2 PL

6″ | 400 W

Code Z004091-8+8

LF 2″ voice coil Fiberglass former
HF Polymide dome 1,7″ voice coil Flat Aluminium wire
Cloth surround with Double Asymmetric Rolls Technology (DAR)
Waterproof Cone Treatment (WpT)
Neodymium Magnet Circuit
100° nominal coverage
94.2 dB sensitivity
Frequency Range 80-20000 Hz

DAR WpT

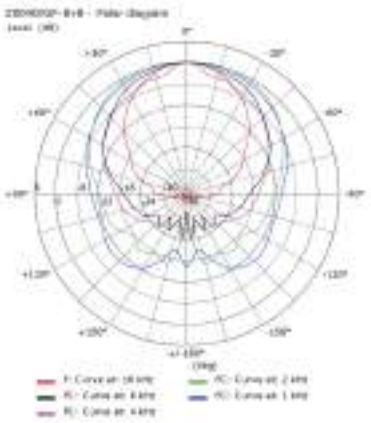


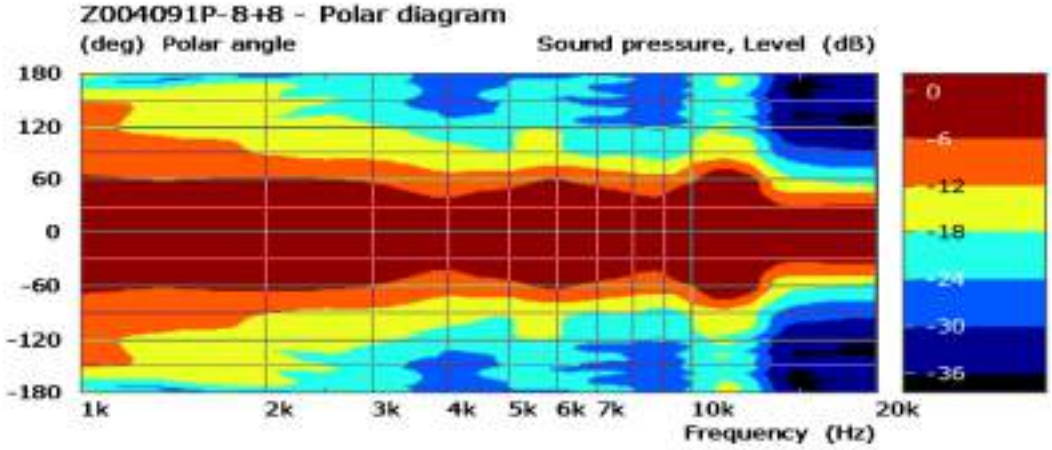
Frequency Response on 18 Ω @ 70 Hz Vented Box @ 1W , 1m
Free Air Impedance

General Specifications	LF unit	HF unit
Nominal Diameter	166 mm / 6 in	
Nominal Impedance	8 Ω	8 Ω
Rated Power AES (1)	200 W	60 W
Continuous Program Power (2)	400 W	120 W
Sensitivity @ 1W/1m (3)	94.2dB	102.7 dB
Voice Coil Diameter	50 mm / 2 in	44 mm / 1.7 in
Voice Coil Winding Depth	11 mm	2.6 mm
Magnetic Gap Depth	8 mm	3 mm
HF Recomm. Crossover Frequency		1.6 kHz
Magnet Weight	308 g	
Net Weight	1.8 kg	

Thiele & Small Parameters (4)			
Re (LF)	6.0 Ω	Fs (LF)	85.0 Hz
Re (HF)	6.0 Ω	Fs (HF)	700 Hz
Qms	2.41	Qes	0.27
Qts	0.24	Mms	13.8 g
Cms	254 µm/N	Bxl	12.79 Tm
Vas	5.4 l	Sd	122.7 cm²
X max (5)	+/- 3.5 mm	X var (6)	+/- 6.0 mm
η_0	1.19%	Le (1KHz)	0.70 mH

Constructive Characteristics	
Magnet	Neodymium
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	Polymide
Surround Material	Treated Cloth
HF Spare Part Code	Z009396-FI
Mounting Information	
Overall Diameter	166 mm
Baffle Cutout Diameter	143 mm
Mounting Holes	4 holes 5x96on ø 155 mm
Total Depth	104.1 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

MADE IN ITALY

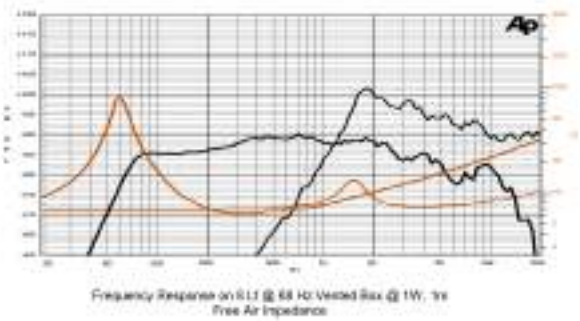
5,5 C 1,5 CP

5,5″ | 240 W

Code Z002810

LF 1,5″ voice coil Kapton former
HF Treated Silk dome 1″ voice coil
Rubber surround with Double Asymmetric Rolls Technology (DAR)
Damping Cone Treatment (DT)
LF Ferrite Magnet Circuit
HF Neodymium Magnet Circuit
89.8 dB sensitivity
Frequency Range 60-20000 Hz

DAR DT

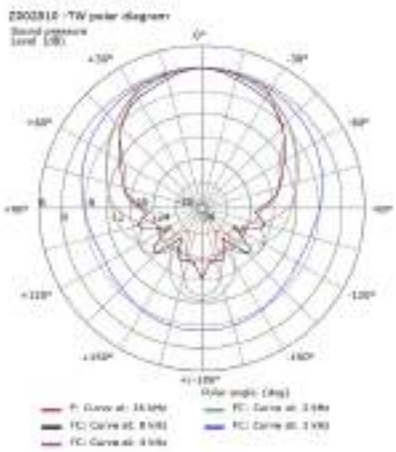


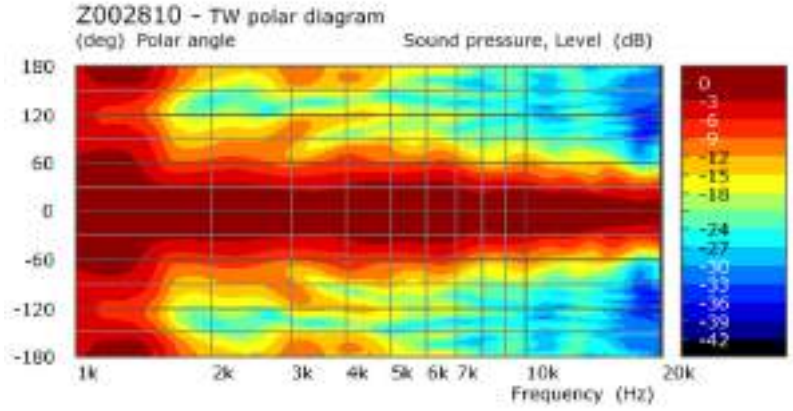
Frequency Response on 6.13 @ 68 Hz Vented Box @ 1W, 1m
Free Air Impedance

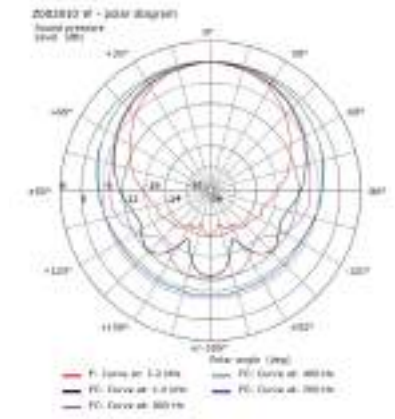
General Specifications	LF unit	HF unit
Nominal Diameter	140 mm / 5,5 in	
Nominal Impedance	8 Ω	8 Ω
Rated Power AES (1)	120 W	
Continuous Program Power (2)	240 W	
Sensitivity @ 1W/1m (3)	89.8 dB	93.5 dB
Voice Coil Diameter	38 mm / 1.5 in	25 mm / 1 in
Voice Coil Winding Depth	12 mm	1.7 mm
Magnetic Gap Depth	5 mm	2 mm
HF Recomm. Crossover Frequency		2.5 kHz
Magnet Weight	515 g	14 g
Net Weight	1.7 kg	

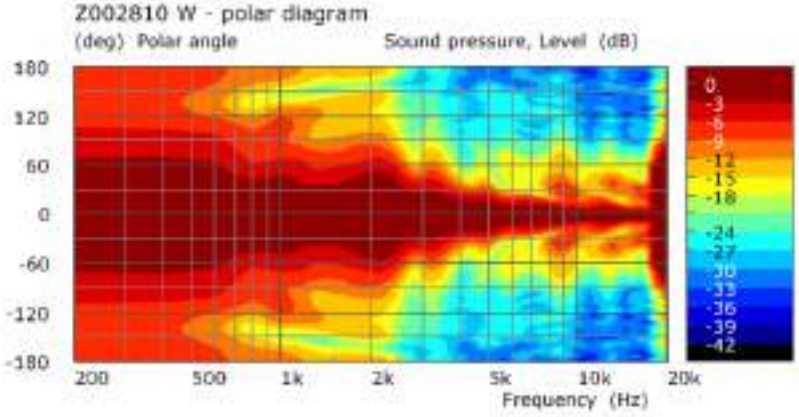
Thiele & Small Parameters (4)			
Re (LF)	5.1 Ω	Fs (LF)	62.0 Hz
Re (HF)	6.0 Ω	Fs (HF)	1500 Hz
Qms	4.67	Qes	0.34
Qts	0.31	Mms	10.6 g
Cms	621 µm/N	Bxl	7.89 Tm
Vas	5.4 l	Sd	78.5 cm²
X max (5)	+/- 4.0 mm	X var (6)	+/- 6.0 mm
η_0	0.37%	Le (1KHz)	0.50 mH

Constructive Characteristics	
Magnet	Ferrite (LF) / Neodymium (HF)
Basket Material	Aluminium Die-Cast
LF Voice Coil Winding/Former Material	Copper / Kapton
HF Voice Coil Winding/Former Material	Copper / Aluminium
LF Cone Material	Paper
HF Dome Material	Treated Silk
Surround Material	Rubber
HF Spare Part Code	Z008955
Mounting Information	
Overall Diameter	148 mm
Baffle Cutout Diameter	113 mm
Mounting Holes	6 holes ø5 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

MADE IN ITALY


DT

DOME
Tweeter

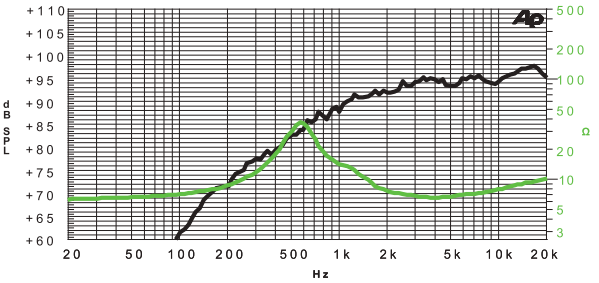
LP 90.28 / N92 TW

1,1" | 120 W

Code Z009160

1,1" voice coil Aluminium former and Aluminium Flat Wire (AlFW)
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

AlFW TSDD CRd DM LFs

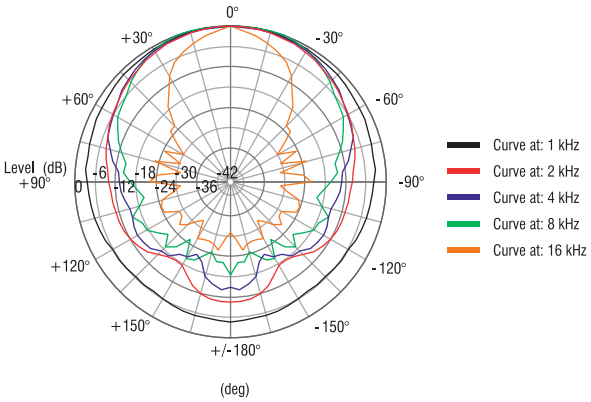


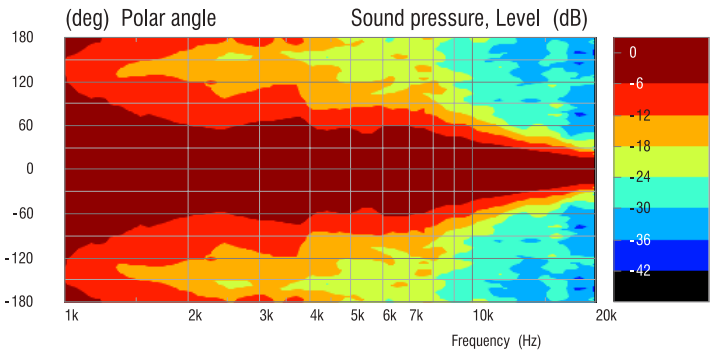
Frequency Response on IEC Baffle (DIN 45575) @ 1W,1m. Free Air Impedance.

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





(1)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRatedPower.(3)RatedNoisePowermeasuredwith100hours test pink noise, 6 dB crest factor IFC60268-5 filtering. (4) Measured at 1W, 1m in axis within the frequency range.

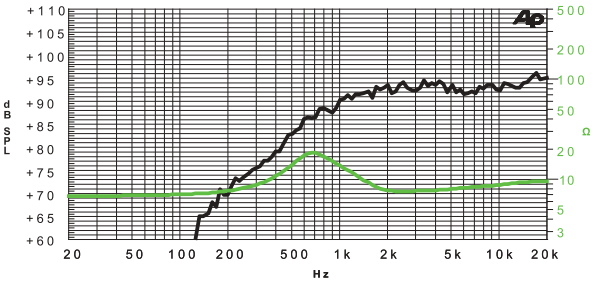
LP 110.28 / 380 TW

1,1" | 120 W

Code Z009240

1,1" voice coil Aluminium former and Aluminium Flat Wire (AlFW)
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

AlFW TSDD CDR LFs

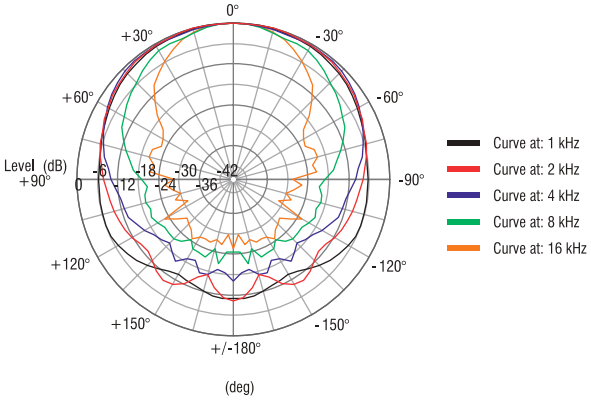


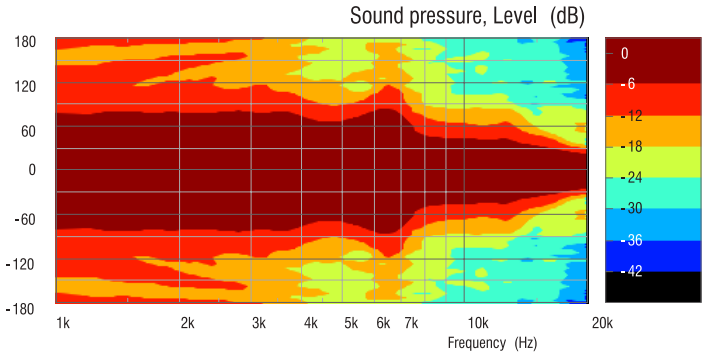
Frequency Response on IEC Baffle (DIN 45575) @ 1W,1m. Free Air Impedance.

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRatedPower.(3)RatedNoisePowermeasuredwith100hours test pink noise, 6 dB crest factor IFC60268-5 filtering. (4) Measured at 1W, 1m in axis within the frequency range.

Dome Tweeter

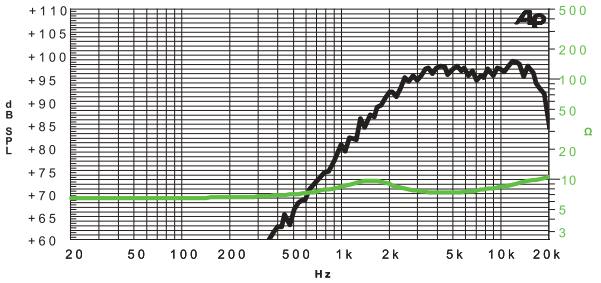
LP 53x58.28 / N20 TW

1,1" | 80 W

Code Z008985

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

AlFW TSD FF



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

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

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

Dome Tweeter

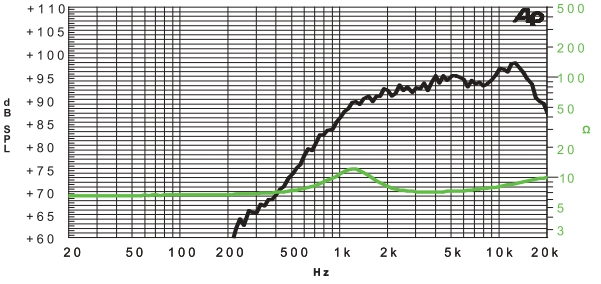
LP 111.25 / 245 TW

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

TSD FF



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) (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

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRatedPower.(3)RatedNoisePowermeasuredwith100hours test pink noise, 6 dB crest factor IFC60268-5 filtering. (4) Measured at 1W, 1m in axis within the frequency range.

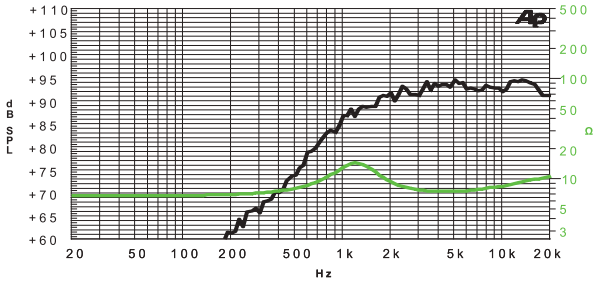
LP 98.25 / 245 TW

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

TSDD FF

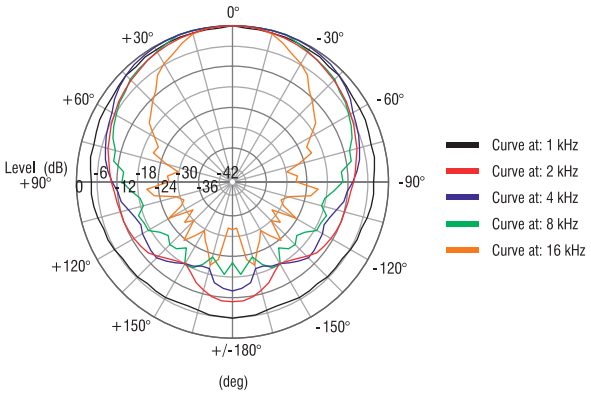


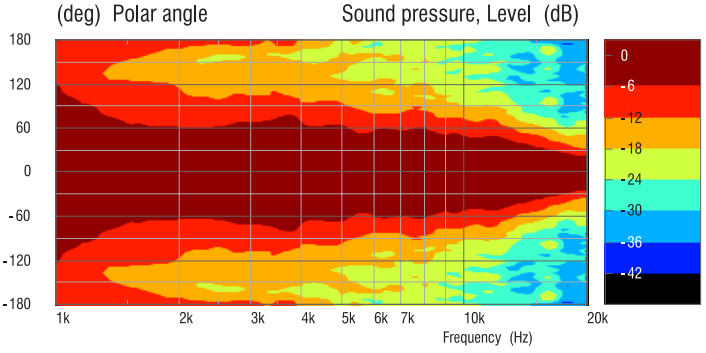
Frequency Response on IEC Baffle (DIN 45575) @ 1W,1m. Free Air Impedance.

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRatedPower.(3)RatedNoisePowermeasuredwith100hours test pink noise, 6 dB crest factor IFC60268-5 filtering. (4) Measured at 1W, 1m in axis within the frequency range.

Dome Tweeter

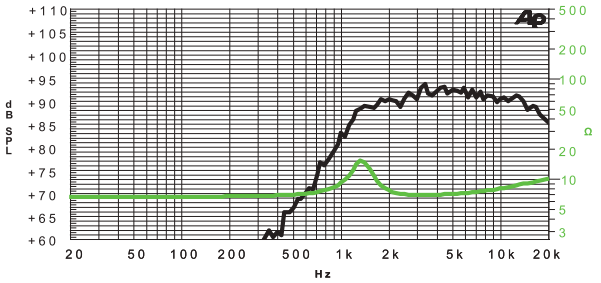
LP 66.25 / N14 TW

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



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

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

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

Dome Tweeter

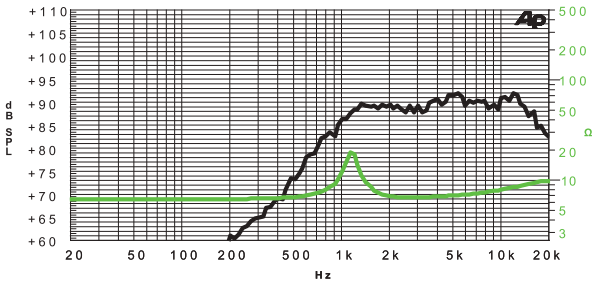
LP 85.25 / 95 TW

1" | 80 W

Code Z009040

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

TSD FF



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

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

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRatedPower.(3)RatedNoisePowermeasuredwith100hours test pink noise, 6 dB crest factor IFC60268-5 filtering. (4) Measured at 1W, 1m in axis within the frequency range.

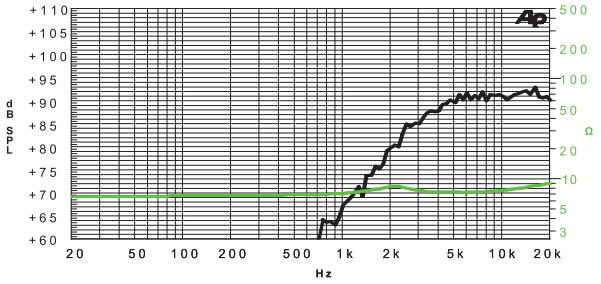
LP 38x50.18/N5 TW

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

TSD FF

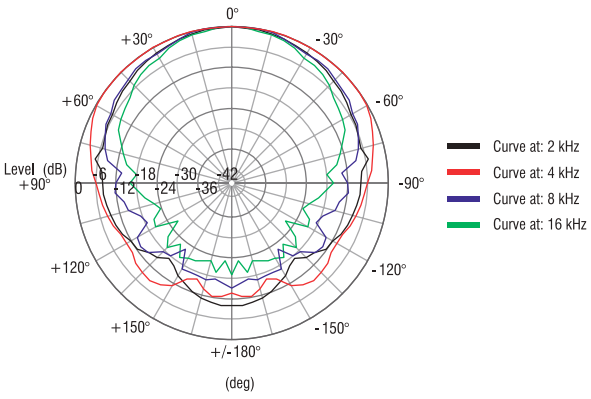


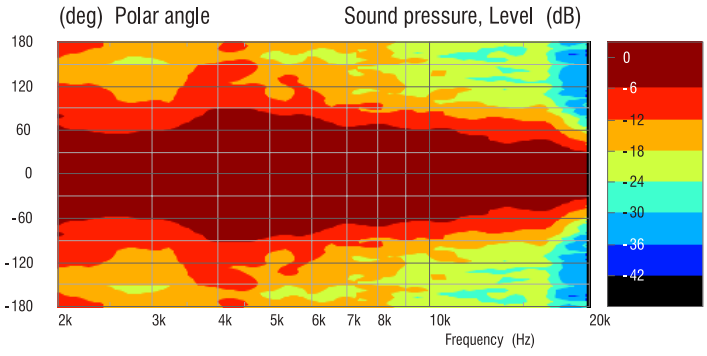
Frequency Response on IEC Baffle (DIN 45575) @ 1W,1m. Free Air Impedance.

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRatedPower.(3)RatedNoisePowermeasuredwith100hours test pink noise, 6 dB crest factor IFC60268-5 filtering. (4) Measured at 1W, 1m in axis within the frequency range.

MADE IN ITALY

COMPRESSION

Driver

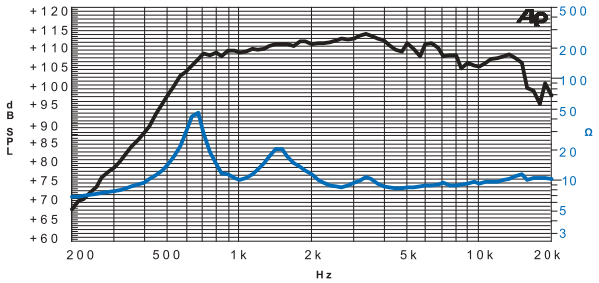
CD 105.65/N220

2,5" | 160 W

Code Z009497

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

AlFW TD CDR



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) (1200 - 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 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.

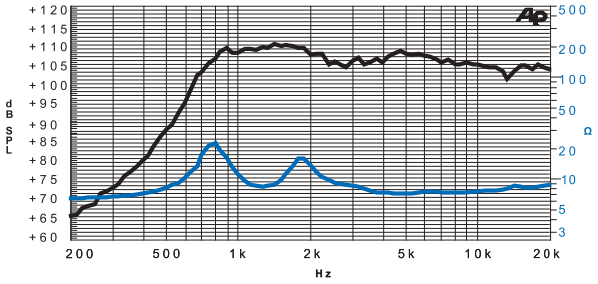
CD 95.44/N240

1,7" | 120 W

Code Z009493

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

AlFW TD CDR



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

General Specifications	
Nominal Diameter	96 mm
Nominal Impedance	8 Ω
Rated Power AES (1) (1600 - 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

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

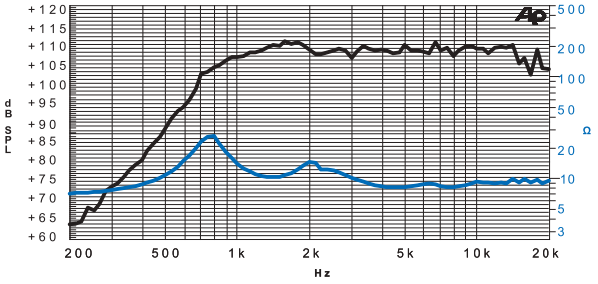
CD 95.44/N240 POLY

1,7" | 120 W

Code Z009493P

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

AlFW CDR



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

General Specifications	
Nominal Diameter	96 mm
Nominal Impedance	8 Ω
Rated Power AES (1) (1600 - 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

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)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,drivercoupledtotherecommendedhorn.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRatedPower.
(3) Measured at 1W,1m in axis within the frequency range, driver coupled to the recommended horn.

MADE IN ITALY

Compression Driver

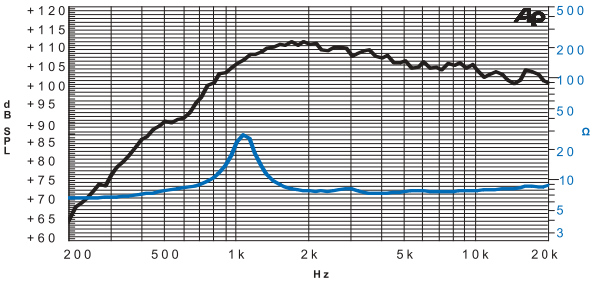
CD 120.44/640

1,7" | 120 W

Code Z009491

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

AlFW TD CDR



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

General Specifications	
Nominal Diameter	120 mm
Nominal Impedance	8 Ω
Rated Power AES (1) (1600 - 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

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
Note: adapter Q07320A is required for coupling with SICA horns	
Total Depth	52 mm

Compression Driver

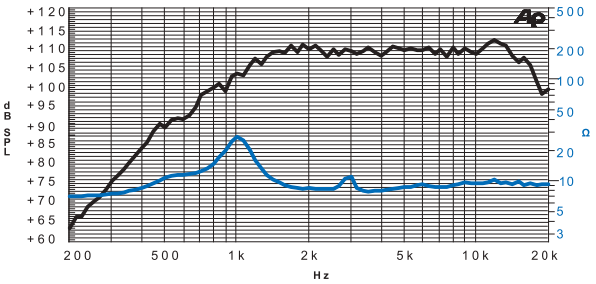
CD 120.44/640 POLY

1,7" | 120 W

Code Z009491P

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

AlFW CDR



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

General Specifications	
Nominal Diameter	120 mm
Nominal Impedance	8 Ω
Rated Power AES (1) (1600 - 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

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
Note: adapter Q07320A is required for coupling with SICA horns	
Total Depth	52 mm

(1)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,drivercoupledtotherecommendedhorn.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRatedPower.
(3) Measured at 1W,1m in axis within the frequency range, driver coupled to the recommended horn.

Compression Driver

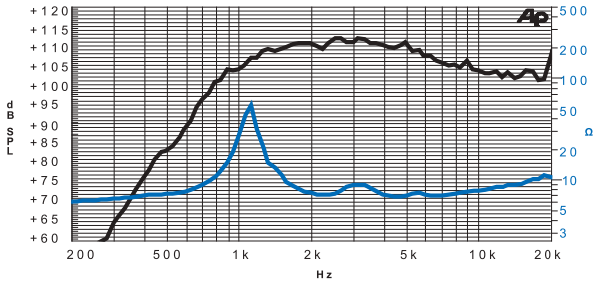
CD 60.38/N92

1,5" | 60 W

Code Z009484

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

AlFW



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

General Specifications	
Nominal Diameter	60 mm
Nominal Impedance	8 Ω
Rated Power AES (1) (1800 - 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

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

Compression Driver

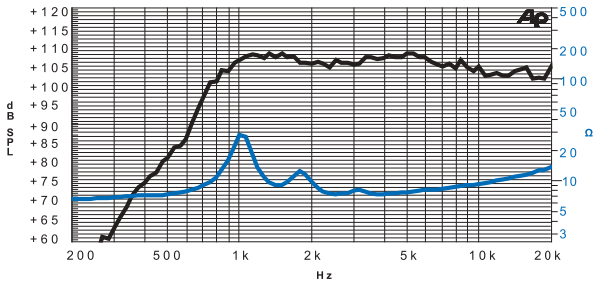
CD 90.38/405

1,5" | 60 W

Code Z009487

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

AlFW



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

General Specifications	
Nominal Diameter	90 mm
Nominal Impedance	8 Ω
Rated Power AES (1) (1800 - 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

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
Note: adapter Q07320A is required for coupling with SICA horns	
Total Depth	46.6 mm

(1)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,drivercoupledtotherecommendedhorn.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRatedPower.
(3) Measured at 1W,1m in axis within the frequency range, driver coupled to the recommended horn.

Compression Driver

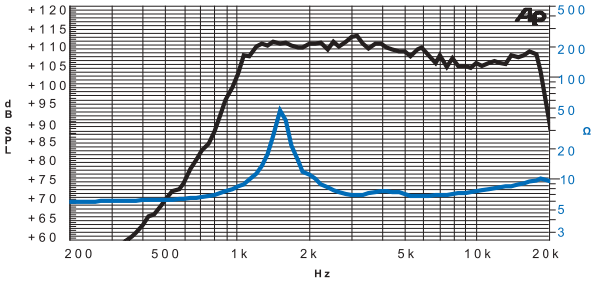
CD 83.26/380

1″ | 40 W

Code Z009470

1″ voice coil Kapton former and Aluminium Flat Wire (AlFW)
Tri-Acetate diaphragm
Ferrite Magnet Circuit
1″ horn throath diameter
107.3 dB sensitivity

AlFW



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

General Specifications	
Nominal Diameter	83 mm
Nominal Impedance	8 Ω
Rated Power AES (1) (2200 - 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

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

Compression Driver

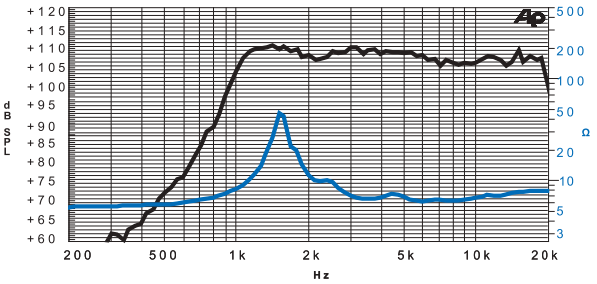
CD 78.26/N92

1″ | 40 W

Code Z009450

1″ voice coil Kapton former and Aluminium Flat Wire (AlFW)
Tri-Acetate diaphragm
Neodymium Magnet Circuit
1″ horn throath diameter
107.3 dB sensitivity

AlFW



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) (2200 - 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

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

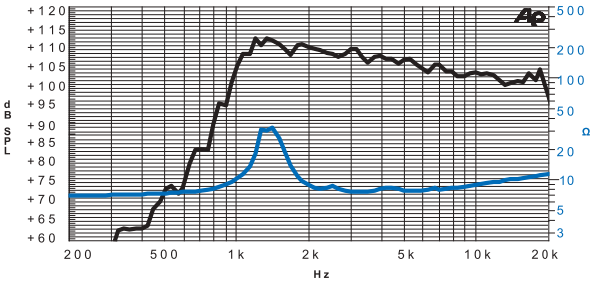
(1)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,drivercoupledtotherecommendedhorn.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRatedPower.
(3) Measured at 1W,1m in axis within the frequency range, driver coupled to the recommended horn.

CD 78.26/245

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] (2500 - 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

MADE IN ITALY

(1)RatedPowermeasuredwith2-hourtestwithpinknoisesignal,6dBcrestfactor,drivercoupledtotherecommendedhorn.(2)PoweronContinuousProgramisdefinedas3dBgreaterthantheRatedPower.
(3) Measured at 1W,1m in axis within the frequency range, driver coupled to the recommended horn.

Horn

H

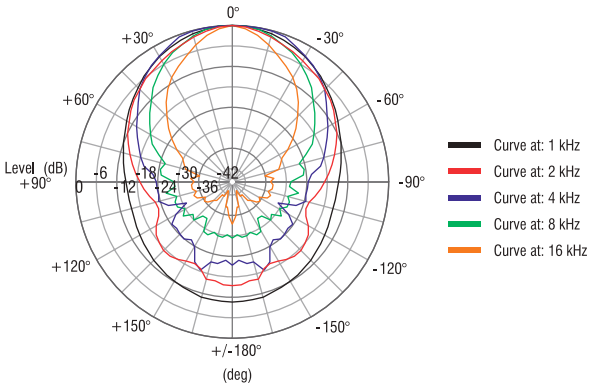
Q07015A

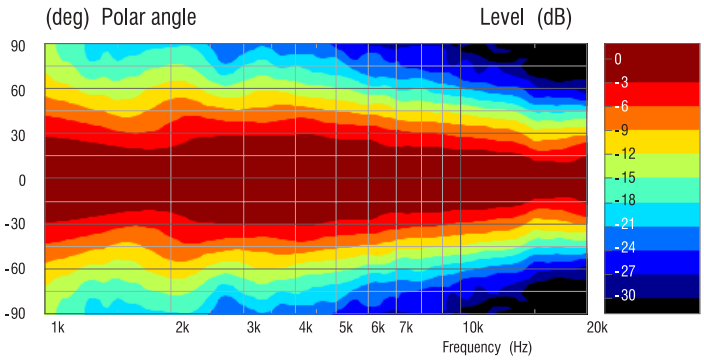
1″ Horn

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

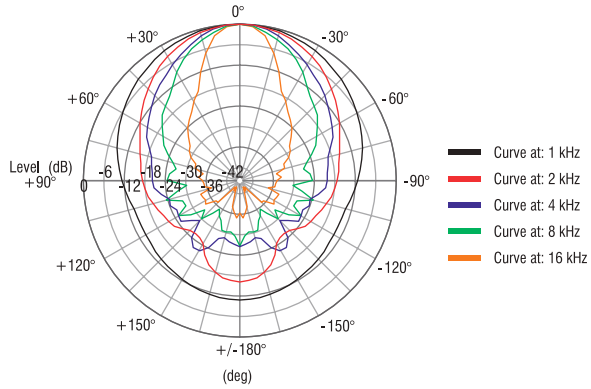
Mounting Information	
Shape	Rectangular
Overall Dimensions	290x160x150 mm
Baffle Cutout Dimensions	255x135 mm
Mounting Holes	8 holes ø 4.5 mm

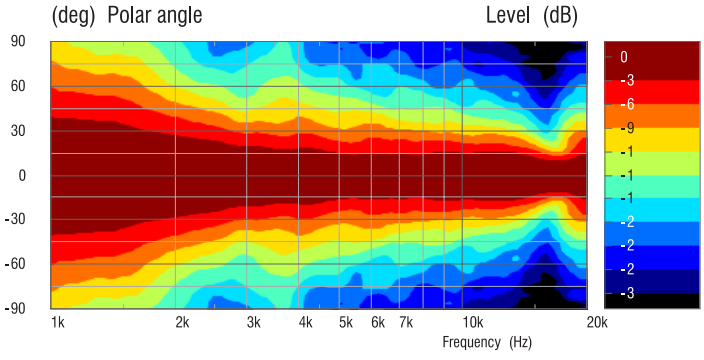
Q07015A - Horizontal Directivity





Q07015A - Vertical Directivity





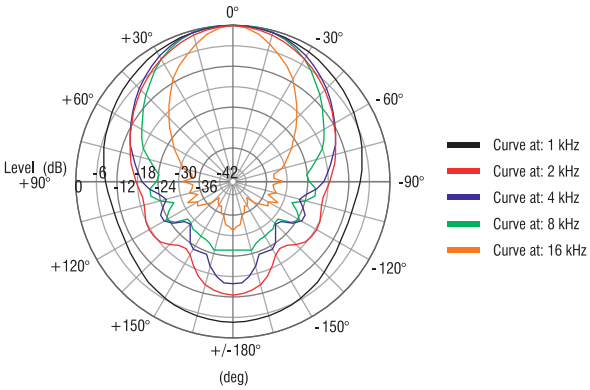
Q07020A

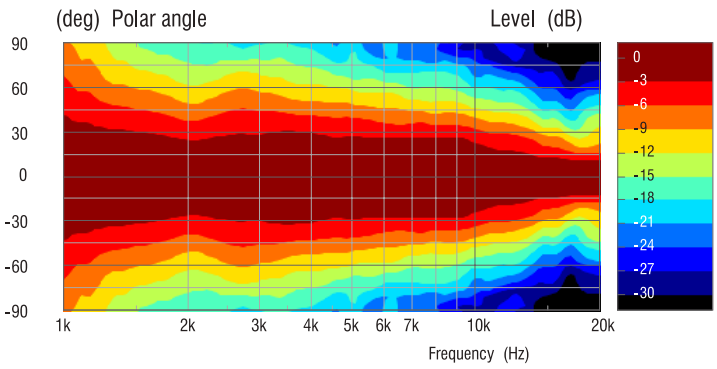
1" Horn

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

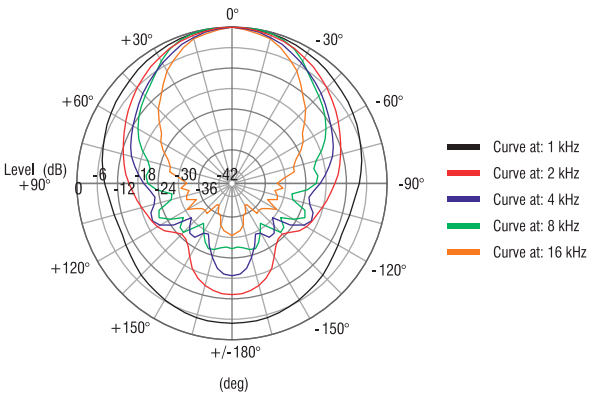
Mounting Information	
Shape	Elliptic
Overall Dimensions	200x160x100 mm
Baffle Cutout Dimensions	167x129 mm
Mounting Holes	4 holes ø 5.0 mm

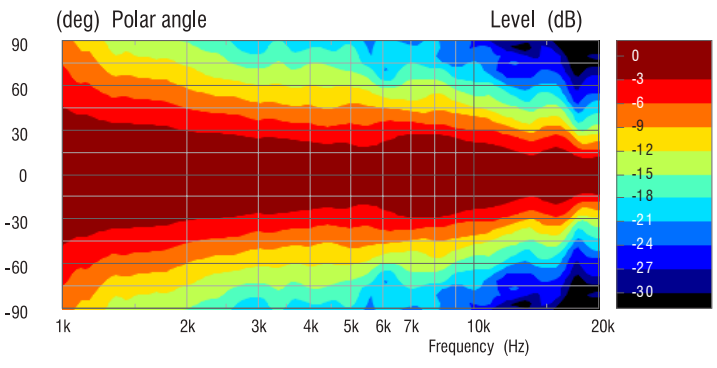
Q07020A - Horizontal Directivity





Q07020A - Vertical Directivity



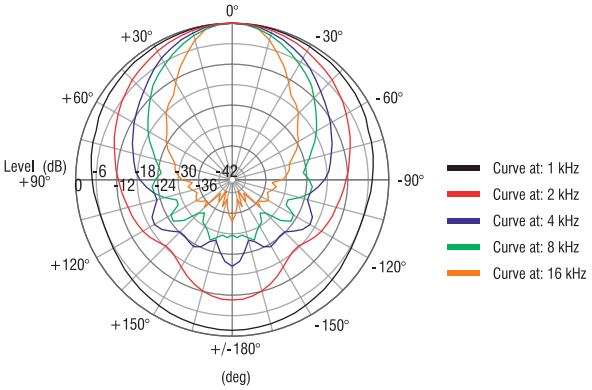


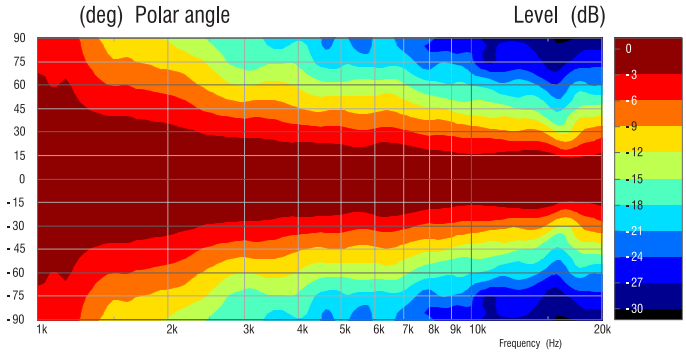
Q07030A Q07032B

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	ø 140x80 mm	119x119x80 mm
Baffle Cutout Dimensions	ø 109 mm	ø 109 mm
Mounting Holes	4 holes ø 5.0 mm	4 holes ø 5.0 mm

Q07030A - Q07032B - Directivity



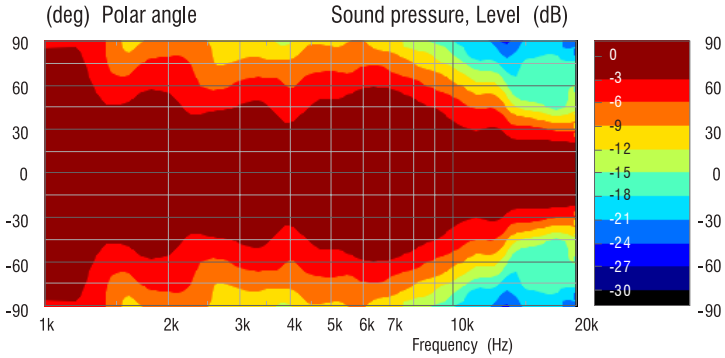


Q07050A

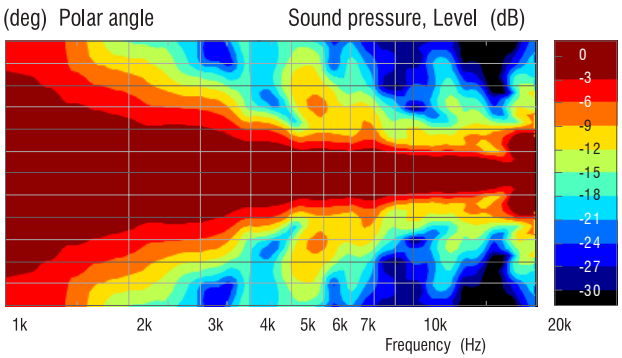
1" Wave Guide

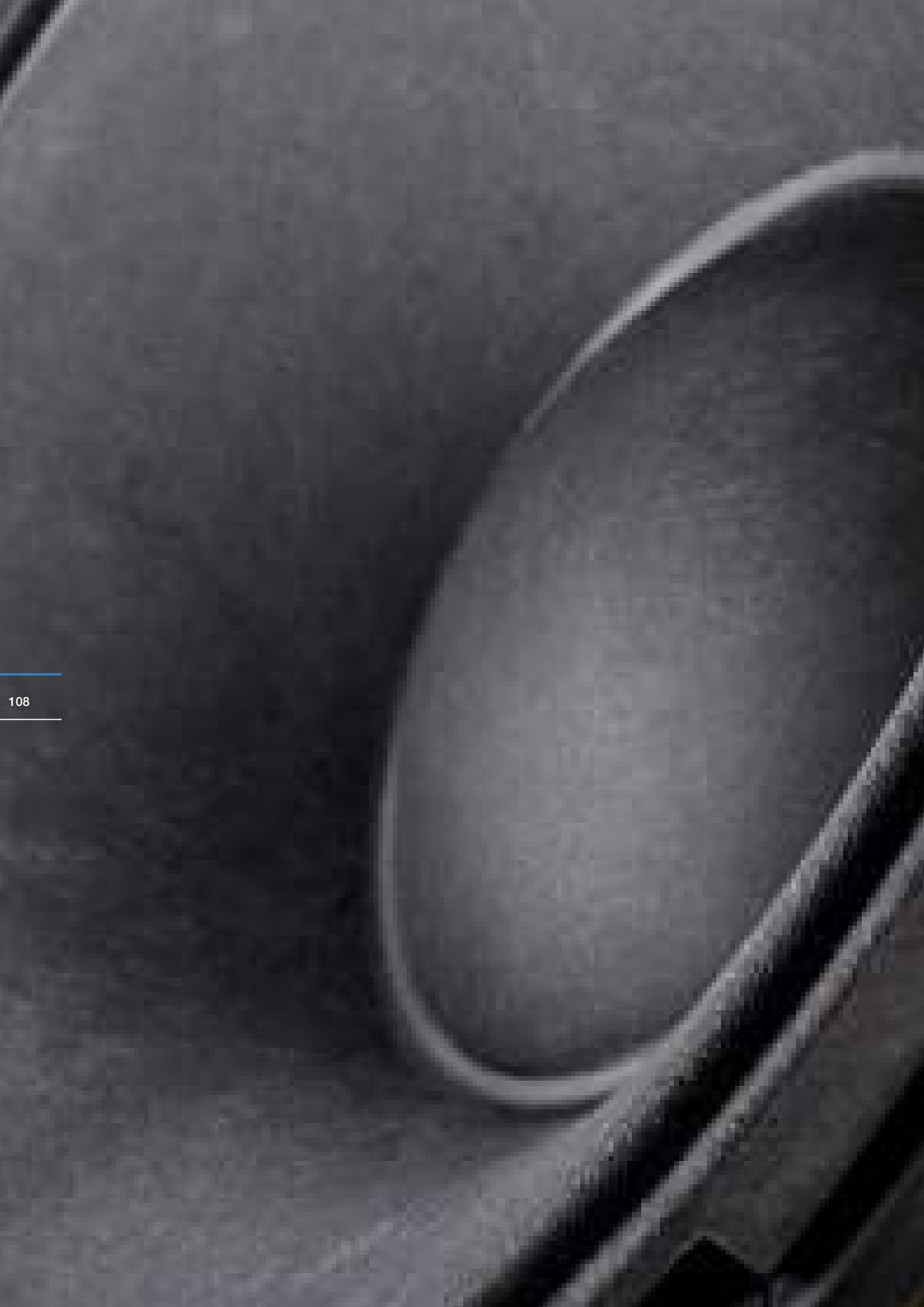
General Specifications	
Throat Diameter	25.4 mm / 1 in
Cutoff Frequency	1.50 Hz
Net Weight	0.10 Kg
Horizontal coverage	130°
Material	Plastic
Mounting Information	
Overall Dimensions	110x87x112 mm
Baffle Cutout Dimensions	108x62 mm
Mounting Holes	4 holes ø 4.8 mm

Q07050A - Horizontal Directivity



Q07050A - Vertical Directivity





Index

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	RatedPWAES 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	Z007996	12					
	woofer			75 / 3	800	400	8	49.0
	compressiondriver			44 / 1.7	120	60	8	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)	RatedPWAES Watt	Imp Ohm	Fs kHz	RecommXoverFreq 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	ContProgPower Watt	RatedPower AES Watt	Imp Ohm	Fs kHz	RecommXoverFreq kHz
CD 105.65/N220	Compressiondriver	Z009497	1.4	65 / 2.5	160	80	8	0.65	1.2
CD 95.44/N240	Compressiondriver	Z009493	1	44 / 1.7	120	60	8	0.80	1.6
CD 95.44/N240 POLY	Compressiondriver	Z009493P	1	44 / 1.7	120	60	8	0.80	1.6
CD 120.44/640	Compressiondriver	Z009491	1	44 / 1.7	120	60	8	1.10	1.6
CD 120.44/640 POLY	Compressiondriver	Z009491P	1	44 / 1.7	120	60	8	1.00	1.6
CD 60.38/N92	Compressiondriver	Z009484	1	38 / 1.5	60	30	8	1.10	2.0
CD 90.38/405	Compressiondriver	Z009487	1	38 / 1.5	60	30	8	1.00	2.0
CD 83.26/380	Compressiondriver	Z009470	1	25 / 1	40	20	8	1.50	2.5
CD 78.26/N92	Compressiondriver	Z009450	1	25 / 1	40	20	8	1.50	2.5
CD 78.26/245	Compressiondriver	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

MADE IN ITALY

Catalogue n. 17

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