RCF PRECISION TRANSDUCERS

the rules of sound RCF

ENG 2009

Established in 1949, RCF has prided itself on carrying out the design and production of its own products.
We have always preferred to design and construct completely all our own components.
Many years dedicated to studying and building audio transducers have resulted in some notable milestones. RCF was the first company in Europe to have a high level Research Centre studying loudspeakers, horns and compression drivers.
There are many different ingredients that go into creating quality products and systems. These include computer aided simulation software to assist the understanding of transducer behaviour and the relationship of dynamics and transient response. RCF utilises many state of the art software to identify magnetic circuits, voice coil dynamics, suspension linearity, horn dispersion simulation, etc., however it is the vast technical and practical experience that our Research and Engineering team posses that ensures the quality of our products plus placing RCF as the market leaders in transducer development.

RCF The Transducer Innovators

The RCF loudspeaker line incorporates a vast range of transducers covering the entire audio spectrum. We design our transducers to optimise the relationship between the purity of sound, combining the absence of distortion and the ability to withstand high power levels over a long period of time. RCF develops advanced transducer technology including the application of high-tech materials such as carbon fibre, pure titanium, Kevlar® and Mylar® hybrids. With over 50 years of design and manufacturing experience in the market, RCF have been instrumental in technological inventions such as: “carbon fibre cone moulding”, “double silicon spiders”, “inside/outside” voice coil windings to “edge wound” voice coil manufacturing and pure titanium diaphragm forming. Our latest developments have resulted in designing state of the art neodymium magnetic circuits and ground breaking direct drive voice coil assemblies.

LOW FREQUENCY **NEODYMIUM TRANSDUCERS**

For decades RCF professional woofers have represented the ultimate performance, the highest power handling and the most advanced technology. Thanks to high energy magnetic designs, complex cooling systems and specifically developed new technologies, our neodymium transducers place themselves at the same, unsurpassed level.

SEALED **MIDRANGE TRANSDUCERS**

RCF has developed two exceptional, sealed, midrange neodymium designs. This innovative solution offer many advantages compared to traditional midranges designs:
- thanks to a massive neodymium magnetic circuit, sensitivity is up to 4 dB higher than traditional designs;
- the optimally tuned rear chamber is sealed and doesn't require the typical back wooden chamber;
- the aluminum basket, in direct contact to the magnetic circuit, provides the best cooling ever found in a midrange transducer.

INSIDE/OUTSIDE
VOICE COILS

RCF has developed a unique voice coil, combining the advantages of inside/outside technology to the superior quality of polyimide-imide materials (wire resins and formers resins).

The inside/outside coil offers many advantages:
- the dissipation surface is doubled;
- the adhesion area to the Former is doubled;
- during thermal expansion the Former is squeezed between inside and outside layers offering the best mechanical resistance.

Our inside/outside formers are made from polyimide-imide fibreglass and the area between the coil and the cone is a triple layer of Nomex - fibreglass - Nomex for maximum stiffness and accurate sound transfer.

COMPLEX
COOLING SYSTEMS

In our complex cooling designs individual components come together to create an ideal ventilation system. Commencing with the design of the basket, RCF has focused on providing finned cooling channels while optimising the surface area available to the front magnetic plate to dissipate heat efficiently.
The dust cap and the sealed spiders function as an air pump expelling hot air and drawing in cool air every time the cone assembly moves. Many openings are situated directly on the transducer's side and on the rear plate.

WOOFER
LF21N451

Professional Low Frequency Transducer

PART NUMBER **11100043**

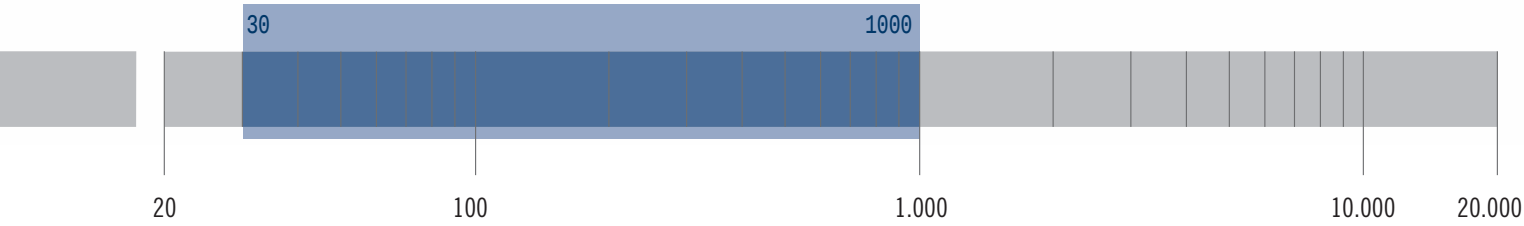
The LF21N451 is a very high power handling and efficiency transducer specially designed to provide powerful and accurate sub-bass frequencies with low distortion and low power compression. Ultra fast time response. The LF21N451 uses a fibre loaded cone assembly along a large triple roll surround, this combination provides remarkable strength and control. Double silicon spider system ensures excellent control during large excursions. A fully optimised T-pole design generate the minimum amount of flux modulation. The Dual-forced air venting system provides a very efficient voice coil ventilation to minimize the power compression.

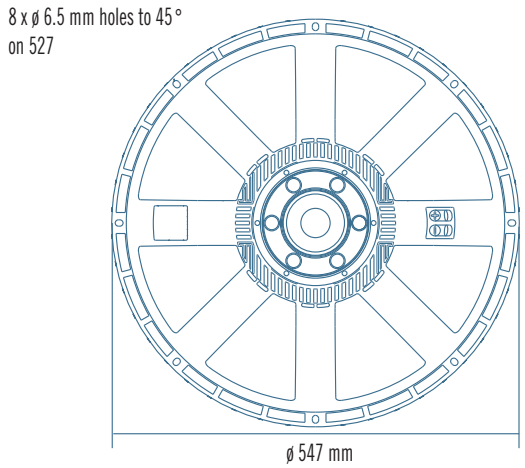
Features

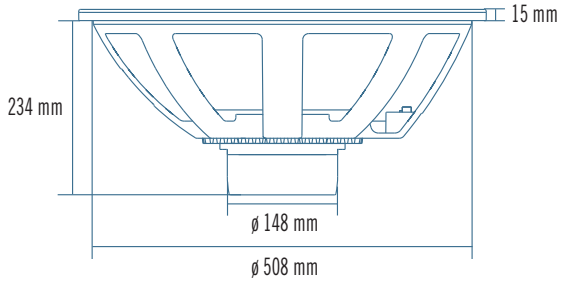
- 4,5 - inch Inside/Outside copper voice coil
- 3000 Watt continuous program power handling
- 98.5dB Sensitivity
- 30Hz - 1kHz Frequency range
- Dual-forced air ventilation for minimum power compression
- Dual spider designed with silicon based damping control
- BL of 34.5 T/m to provide a faster and accurate low frequency

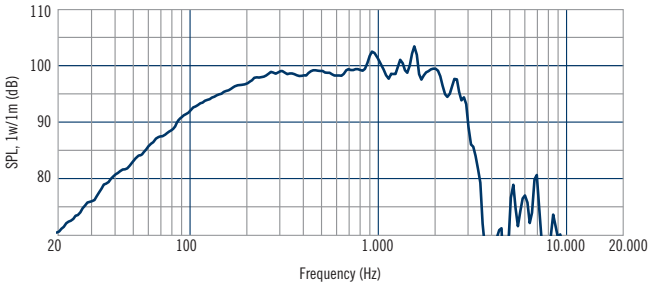
Applications

The LF21N451 is ideal in applications where light weight ,very high BL and power handling are required. Itís especially used for touring, perfect for powerful lows in horn loaded sub bass system or reflex designs.

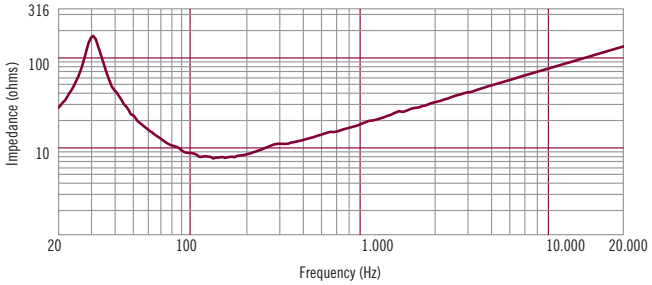








Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	530/21	mm/inch
Rated Impedance	8	ohm
Program Power [1]	3000	Watts
Power handling capacity [2]	1500	Watts
Sensitivity [3]	98,5	dB
Frequency Range	30 - 1000	Hz
Effective Piston Diameter	470/18.5	mm/inch
Max Excursion Before Damage (peak to peak)	58/2.28	mm/inch
Minimum Impedance	7.1	ohm
Voice Coil Diameter	115/4.5	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	34/1.33	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	15/0.6	mm/inch
Cone Material	No pressed pulp carbon fiber reinforced	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	Triple roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	30	Hz
DC resistance	Re	5.6	ohm
Mechanical factor	Qms	6.1	
Electrical factor	Qes	0.27	
Total factor	Qts	0.26	
BL Factor	BL	34.5	T · m
Effective Moving Mass	Mms	315	gr
Equivalent Cas air load	Vas	375	liters
Effettive piston area	Sd	0.173	m^2
Max. linear excursion (mathematical) [5]	Xmax	13.2	mm
Voice - coil inductance @ 1KHz	Le1K	3.0	mH
Half-space efficiency	Eff	4.0	%

Mounting Information

Overall Diameter	547/21.5	mm/inch
Bolt Circle Diameter	527/20.7	mm/inch
Bolt Hole Diameter	6.5/0.25	mm/inch
Front Mount Baffle Cut-out	512/20.1	mm/inch
Rear Mount Baffle Cut-out	512/20.1	mm/inch
Depth	250/9.8	mm/inch
Volume occupied by the driver [6]	6.5/0.229	liters/ft3

Shipping Information

Net Weight	10.9/24	Kg/Lbs
Shipping Weight	12.1/26.6	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
LF18N451

Professional Low Frequency Transducer

PART NUMBER **11100046**

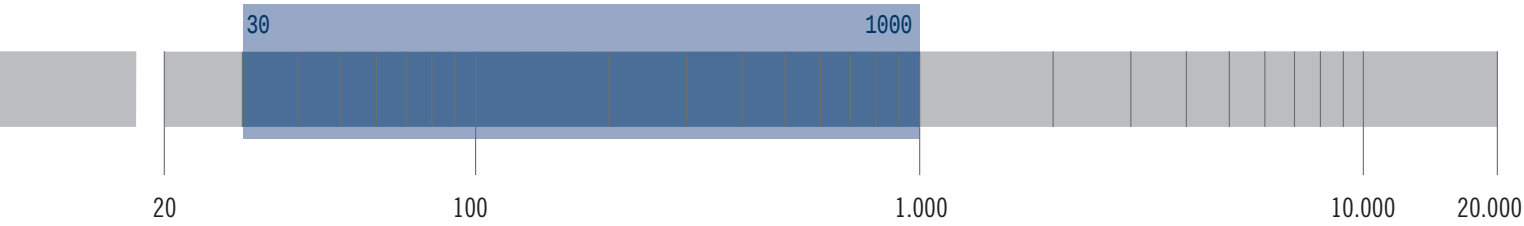
The LF18N451 is a very high power handling and efficiency transducer specially designed to provide powerful and accurate bass frequencies with low distortion and low power compression. Ultra fast time response. The LF18N451 uses a fibre loaded cone assembly along a large triple roll surround, this combination provides remarkable strength and control. Double silicon spider system ensures excellent control during large excursions. A fully optimised T-pole design generate the minimum amount of flux modulation. The Dual-forced air venting system provides a very efficient voice coil ventilation to minimize the power compression.

Features

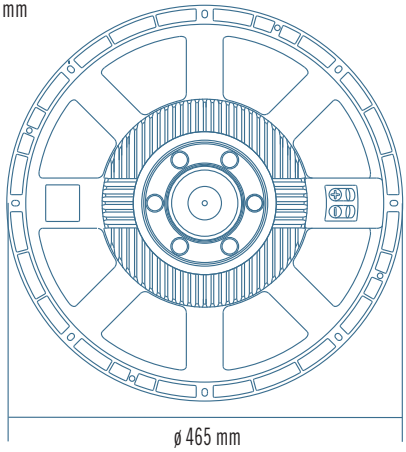
- 4,5 - inch Inside/Outside copper voice coil
- 3000 Watt continuous program power handling
- 97.5dB Sensitivity
- 30Hz - 1kHz Frequency range
- Dual-forced air ventilation for minimum power compression
- Dual spider designed with silicon based damping control
- BL of 30.2 T/m to provide a faster and accurate low frequency

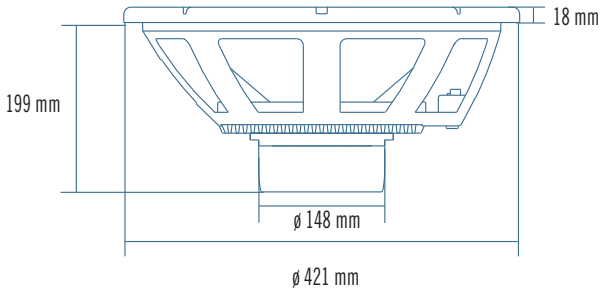
Applications

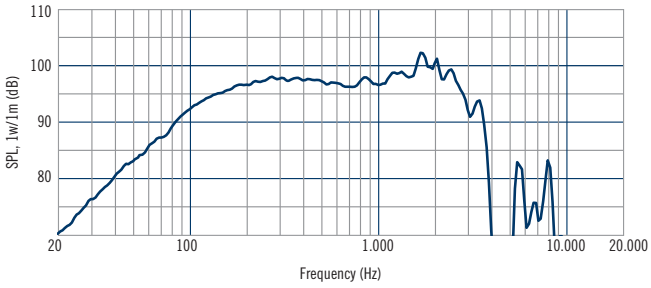
The LF18N451 is ideal in applications where light weight ,very high BL and power handling are required. Itís especially designed for touring, perfect for powerful lows in horn loaded sub system or reflex designs.



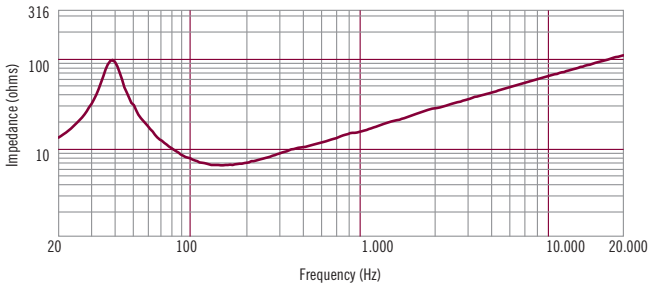
8 x ø 6.5 mm holes to 45°
on 442 and on 447 mm







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	460/18	mm/inch
Rated Impedance	8	ohm
Program Power [1]	3000	Watts
Power handling capacity [2]	1500	Watts
Sensitivity [3]	97.5	dB
Frequency Range	30 - 1000	Hz
Effective Piston Diameter	395/15.6	mm/inch
Max Excursion Before Damage (peak to peak)	60/2.36	mm/inch
Minimum Impedance	6.3	ohm
Voice Coil Diameter	115/4.5	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	26/1.02	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	15/0.6	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	Triple roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	31	Hz
DC resistance	Re	5.0	ohm
Mechanical factor	Qms	6.0	
Electrical factor	Qes	0.25	
Total factor	Qts	0.24	
BL Factor	BL	30.2	T · m
Effective Moving Mass	Mms	235	gr
Equivalent Cas air load	Vas	245	liters
Effettive piston area	Sd	0.122	m^2
Max. linear excursion (mathematical) [5]	Xmax	8.8	mm
Voice - coil inductance @ 1KHz	Le1K	2.6	mH
Half-space efficiency	Eff	2.54	%

Mounting Information

Overall Diameter	465/18.3	mm/inch
Bolt Circle Diameter	442-447/17.4-17.6	mm/inch
Bolt Hole Diameter	6.5/0.25	mm/inch
Front Mount Baffle Cut-out	424/16.7	mm/inch
Rear Mount Baffle Cut-out	425/16.7	mm/inch
Depth	205/8.1	mm/inch
Volume occupied by the driver [6]	5.5/0.19	liters/ft3

Shipping Information

Net Weight	10.6/23.3	Kg/Lbs
Shipping Weight	11.8/26	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
LF18N401

Professional Low Frequency Transducer

Incredibly linear frequency response characteristics, the highest power handling of any comparable 18-inch neodymium transducer, the lowest power compression. The LF18N401 uses a fibre loaded cone assembly along with a high excursion triple roll, constant geometry surround. This combination provides remarkable strength and a peak to peak maximum excursion of 52 mm. The unique Dual-forced air venting system guarantee a very efficient voice coil ventilation for minimum power compression and higher power handling.

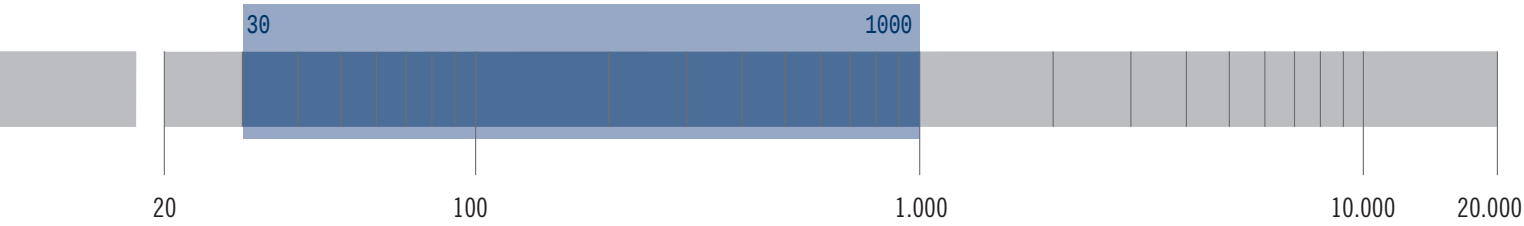
PART NUMBER **11100010**

Features

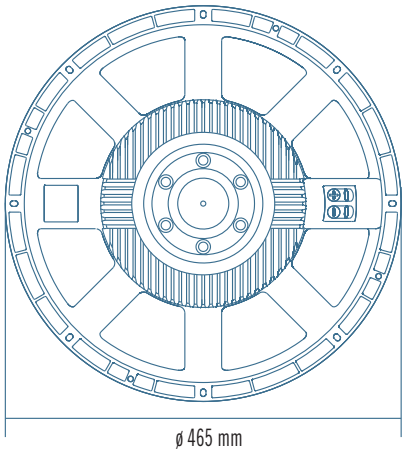
- 4-inch, fibreglass inside-outside copper voice coil
- 2400 Watt continuous program power handling
- 98 dB Sensitivity
- 30 Hz - 1 kHz Frequency range
- Dual-forced air ventilation and 15 mm top plate for minimum power compression
- Dual spider design with silicon based dampening control
- Triple-roll surround and corrugated straight cone geometry

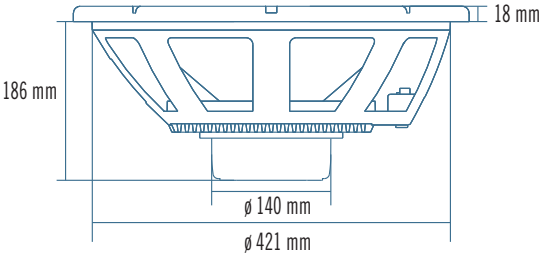
Applications

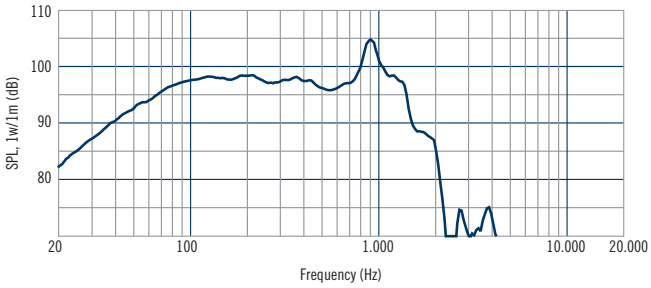
The LF18N401 is ideal for use in applications where incredible power handling is required, long excursion and light weight. Specially designed for touring, perfect for high quality professional bass reflex and bass-horn systems.
The transducer's low frequency extension and control also makes it ideal for use within critical listening applications such as studio monitoring subwoofer systems.



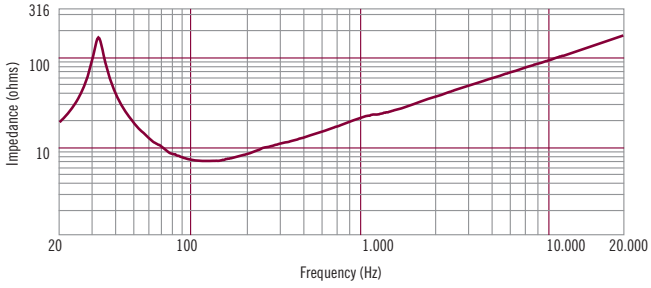
8 x ø 6.5 mm holes to 45 °
on 442 and on 447 mm







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	460/18	mm/inch
Rated Impedance	8	ohm
Program Power [1]	2400	Watts
Power handling capacity [2]	1200	Watts
Sensitivity [3]	98	dB
Frequency Range	30 - 1000	Hz
Effective Piston Diameter	395/15.6	mm/inch
Max Excursion Before Damage (peak to peak)	52/2.1	mm/inch
Minimum Impedance	6.3	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	25/1.0	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	15/0.6	mm/inch
Cone Material	No pressed pulp	
Cone Design	Straight	
Surround Material	Polycotton	
Surround Design	Triple roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	32	Hz
DC resistance	Re	5.1	ohm
Mechanical factor	Qms	6.5	
Electrical factor	Qes	0.27	
Total factor	Qts	0.26	
BL Factor	BL	27.8	T · m
Effective Moving Mass	Mms	201	gr
Equivalent Cas air load	Vas	257	liters
Effettive piston area	Sd	0.122	m^2
Max. linear excursion (mathematical) [5]	Xmax	8.8	mm
Voice - coil inductance @ 1KHz	Le1K	2.5	mH
Half-space efficiency	Eff	3.01	%

Mounting Information

Overall Diameter	465/18.3	mm/inch
Bolt Circle Diameter	442-447/17.4-17.6	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	424/16.7	mm/inch
Rear Mount Baffle Cut-out	424/16.7	mm/inch
Depth	205/8.1	mm/inch
Volume occupied by the driver [6]	5.5/0.19	liters/ft3

Shipping Information

Net Weight	9.1/20.2	Kg/Lbs
Shipping Weight	9.8/21.8	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
L18P300ND

Professional Low Frequency Transducer

PART NUMBER **11100037**

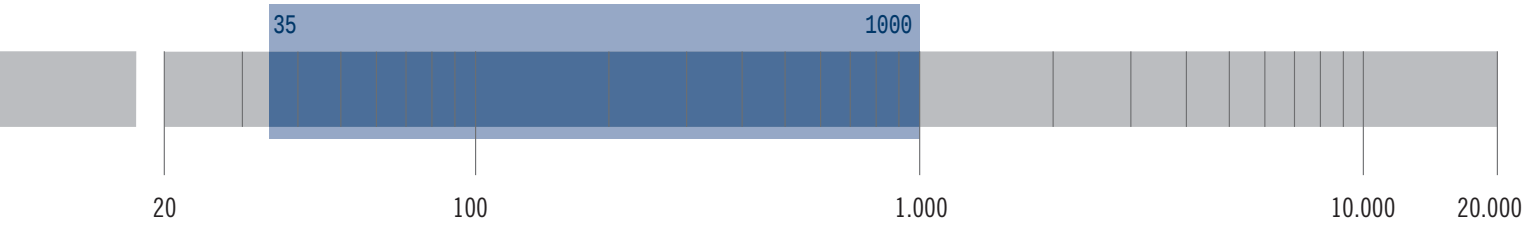
The L18P300ND is derived from L18P300 but with a neo magnetic design and manufactured with a newly designed aluminum basket that provides an excellent ventilation of voice coil, this solution is perfectly compatible with the ferrite version for size and performance . The neo magnetic assembly use a 15mm thickness plates that ensure a high flux density in the gap , low power compression and excellent heat dissipation. A specially designed of M-roll suspensions that combined with a double silicon spider ensure an excellent linear piston control and an undistorted low frequency reproduction at very high power.

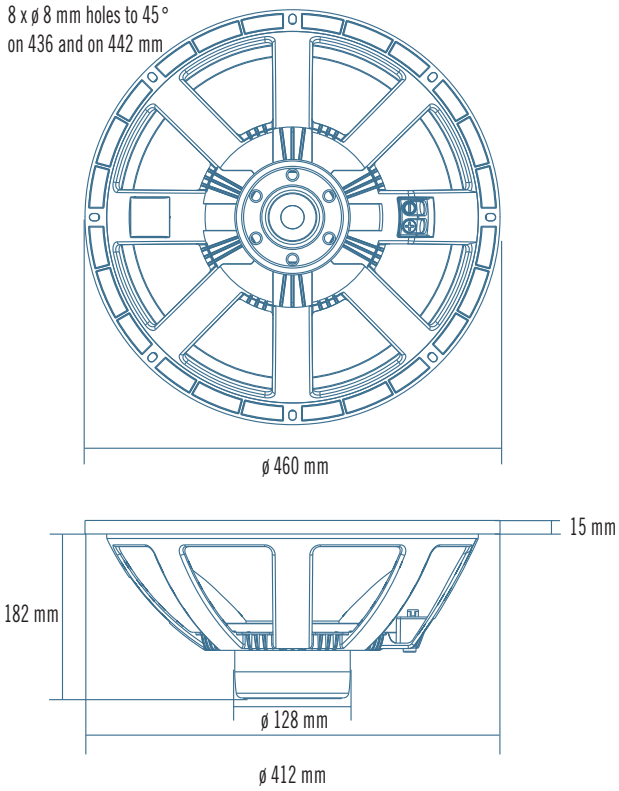
Features

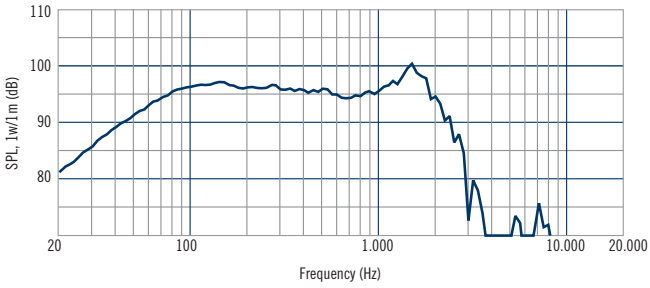
- 4-inch , fibreglass inside-outside copper voice coil
- 2000W continuous program power handling
- 97dB Sensitivity
- 35Hz -1KHz Frequency range
- Forced air ventilation and 15mm top plate for minimum power compression
- Dual spider design with silicon based dampening control
- M-roll surround and exponential cone geometry
- Neo magnetic assembly
- The net weight of L18P300ND result half in comparison to the ferrite version.

Applications

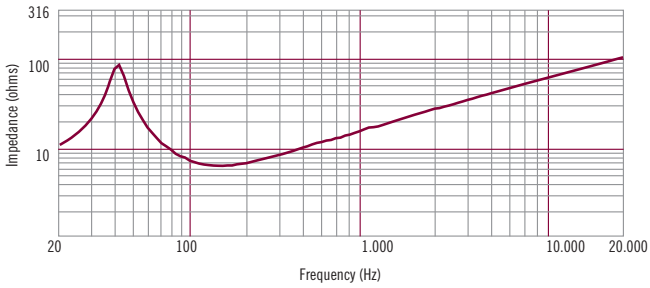
The L18P300ND finds its application in bass reflex and band pass system.. Its capacity to reproduce extremely low frequencies along with extraordinary definition make it a no compromise woofer in its category, ideal for live and recorded music.







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	460/18	mm/inch
Rated Impedance	8	ohm
Program Power [1]	2000	Watts
Power handling capacity [2]	1000	Watts
Sensitivity [3]	97	dB
Frequency Range	35 - 1000	Hz
Effective Piston Diameter	380/14.9	mm/inch
Max Excursion Before Damage (peak to peak)	40/1.57	mm/inch
Minimum Impedance	6.0	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	23/0.90	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	15/0.6	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M-roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	33	Hz
DC resistance	Re	5.0	ohm
Mechanical factor	Qms	8.3	
Electrical factor	Qes	0.33	
Total factor	Qts	0.32	
BL Factor	BL	23.5	T · m
Effective Moving Mass	Mms	180	gr
Equivalent Cas air load	Vas	230	liters
Effettive piston area	Sd	0.113	m^2
Max. linear excursion (mathematical) [5]	Xmax	7.8	mm
Voice - coil inductance @ 1KHz	Le1K	1.9	mH
Half-space efficiency	Eff	2.30	%

Mounting Information

Overall Diameter	460/18.1	mm/inch
Bolt Circle Diameter	436-446/17.1-17.4	mm/inch
Bolt Hole Diameter	8/0.31	mm/inch
Front Mount Baffle Cut-out	416/16.3	mm/inch
Rear Mount Baffle Cut-out	418/16.4	mm/inch
Depth	206/8.1	mm/inch
Volume occupied by the driver [6]	5.5/0.19	liters/ft3

Shipping Information

Net Weight	6.5/14.3	Kg/Lbs
Shipping Weight	7.3/16.1	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
LF15N401

Professional Low Frequency Transducer

PART NUMBER **11100013**

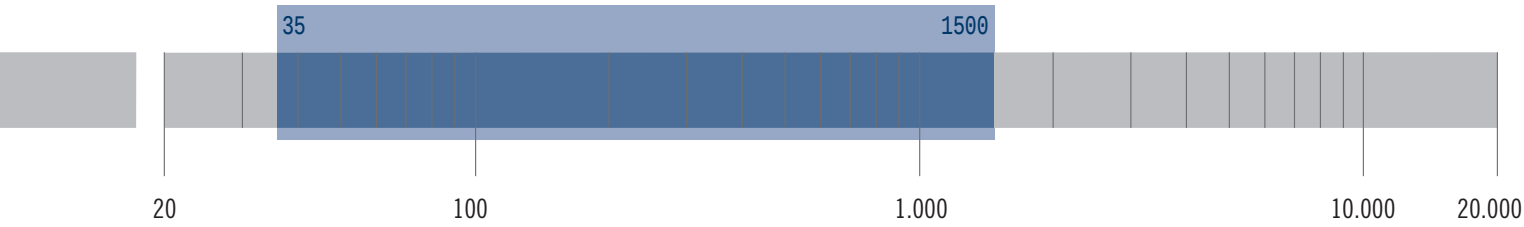
Incredibly linear frequency response characteristics, the highest power handling of any comparable 15-inch neodymium transducer, the lower power compression. The LF15N401 uses a fibre loaded cone assembly along with a high excursion triple roll, constant geometry surround. This combination provides remarkable strength and a peak to peak maximum excursion of 52 mm. The unique Dual-forced air venting system guarantee a very efficient voice coil ventilation for minimum power compression and higher power handling.

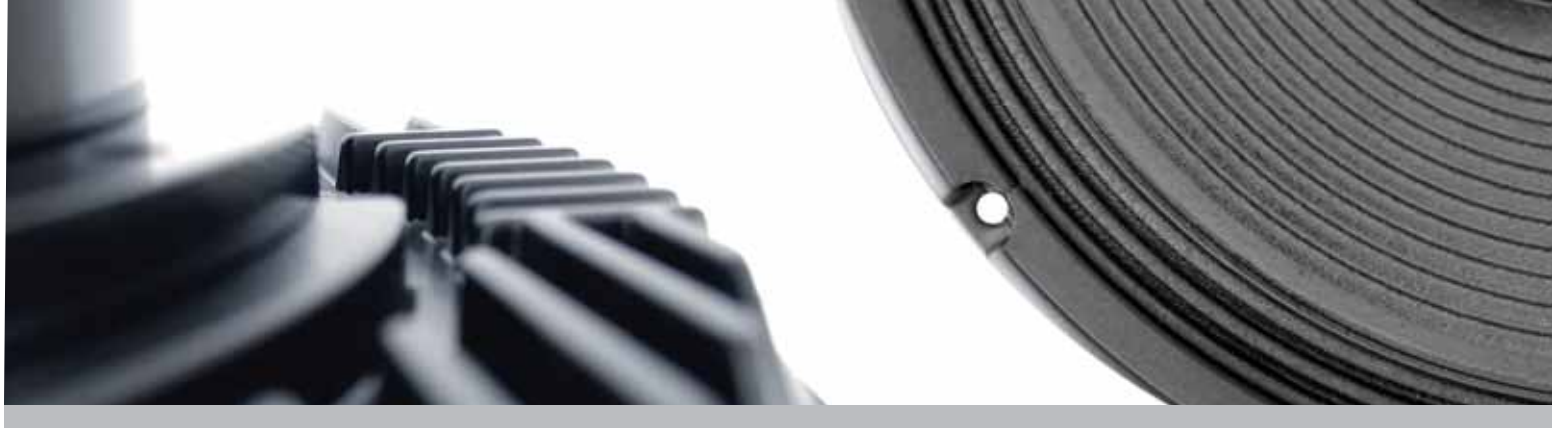
Features

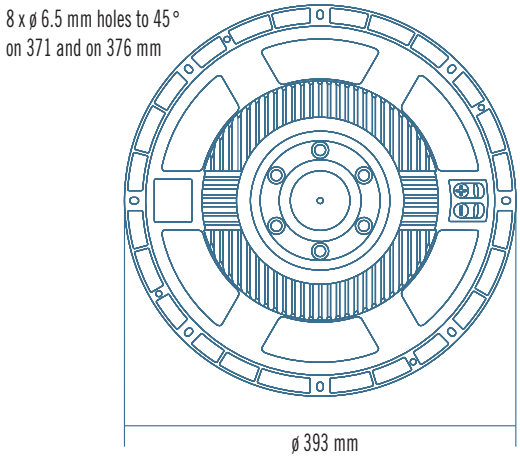
- 4-inch, fibreglass inside-outside copper voice coil
- 1800 Watt continuous program power handling
- 97 dB Sensitivity
- 35 Hz - 1.5 kHz Frequency range
- Dual-forced air ventilation and 15 mm top plate for minimum power compression
- Dual spider design with silicon based dampening control
- Triple-roll surround and corrugated straight cone geometry

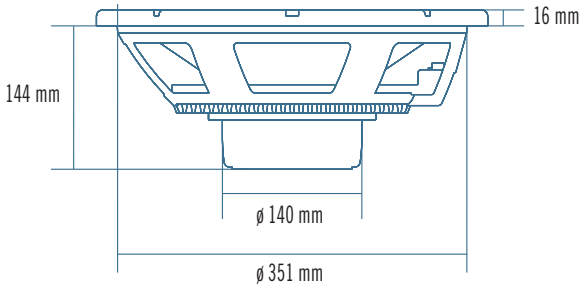
Applications

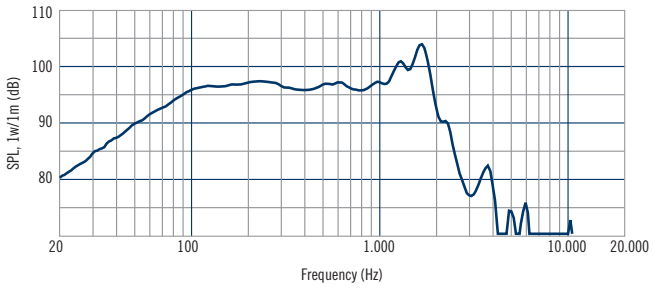
The LF15N401 is ideal for use in applications where incredible power handling, long excursion and light weight is required. Specially designed for touring, perfect for high quality professional bass reflex and bass-horn systems.
The transducer's low frequency extension and control also makes it ideal for use within critical listening applications such as studio monitoring subwoofer systems.



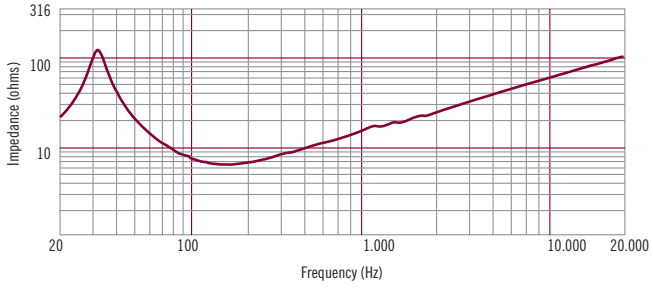








Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power [1]	1800	Watts
Power handling capacity [2]	900	Watts
Sensitivity [3]	97	dB
Frequency Range	35 - 1500	Hz
Effective Piston Diameter	340/13.4	mm/inch
Max Excursion Before Damage (peak to peak)	52/2.1	mm/inch
Minimum Impedance	6,3	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	25/1.0	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	15/0.6	mm/inch
Cone Material	No pressed pulp	
Cone Design	Straight	
Surround Material	Polycotton	
Surround Design	Triple roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	34	Hz
DC resistance	Re	5.1	ohm
Mechanical factor	Qms	5.8	
Electrical factor	Qes	0.23	
Total factor	Qts	0.22	
BL Factor	BL	27.8	T · m
Effective Moving Mass	Mms	158	gr
Equivalent Cas air load	Vas	160	liters
Effettive piston area	Sd	0.091	m^2
Max. linear excursion (mathematical) [5]	Xmax	8.8	mm
Voice - coil inductance @ 1KHz	Le1K	2.5	mH
Half-space efficiency	Eff	2.64	%

Mounting Information

Overall Diameter	393/15.5	mm/inch
Bolt Circle Diameter	371-376/14.6-14.8	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	354/13.9	mm/inch
Rear Mount Baffle Cut-out	354/14.2	mm/inch
Depth	158/6.2	mm/inch
Volume occupied by the driver [6]	3.8/0.13	liters/ft3

Shipping Information

Net Weight	8.6/19.1	Kg/Lbs
Shipping Weight	9.3/20.7	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

MID-BASS
MB15N401

Professional Low Frequency Transducer

The MB15N401 is a neo midbass with a linear frequency response and very high efficincy. To get this performance the magnetic structure use a double demodulation ring and a fibre loaded exponential cone assembly along with a high excursion triple roll, constant geometry surround. The fibreglass former, inside / outside copper voice coil provides a very good power handling maintaining a light mass maintaining a proper Q factor for bass alignment. The double demodulations ring guarantee a fastest time response and lowest distortion.

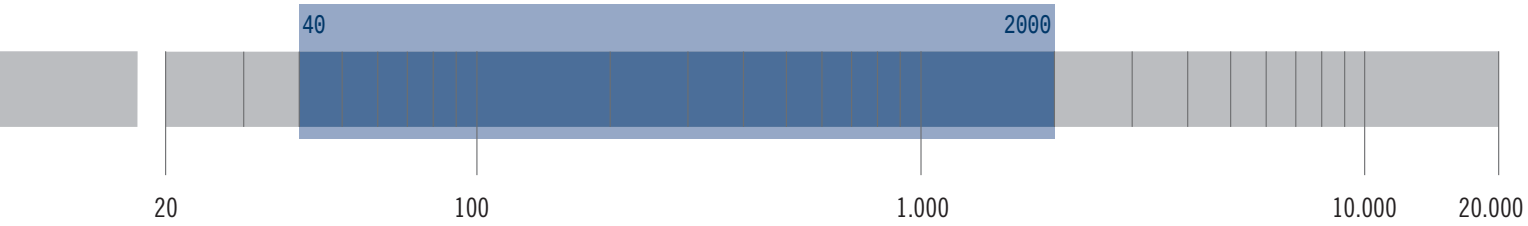
PART NUMBER **11100034**

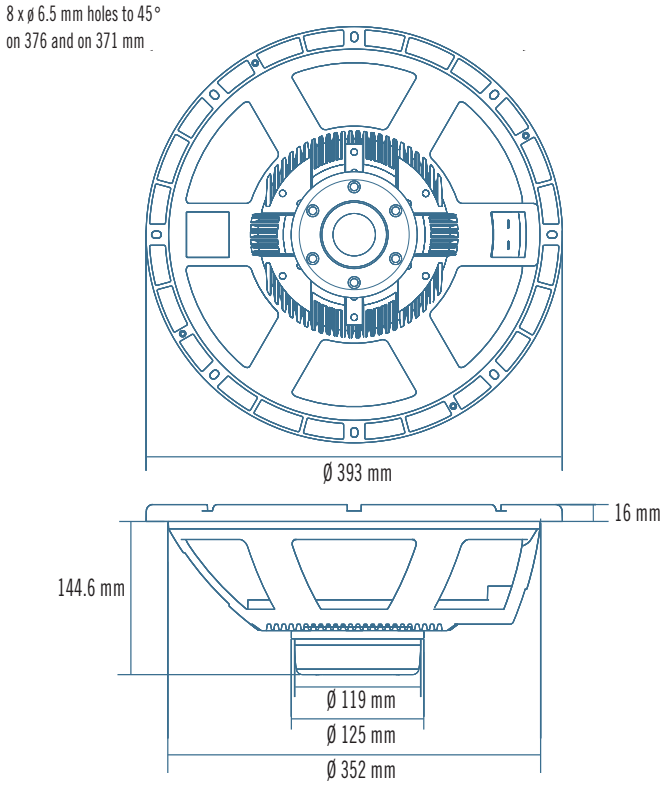
Features

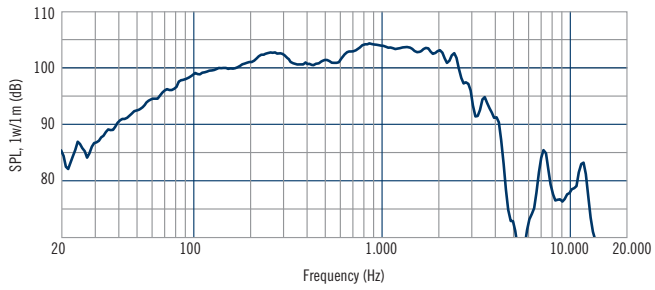
- 4-inch, fibreglass inside-outside copper voice coil
- 1700 Watt continuous program power handling
- 100 dB Sensitivity
- 40 Hz - 2 kHz Frequency range
- Dual –forced air ventilation
- Triple-roll surround and exponential cone geometry
- Aluminum demodulation ring

Applications

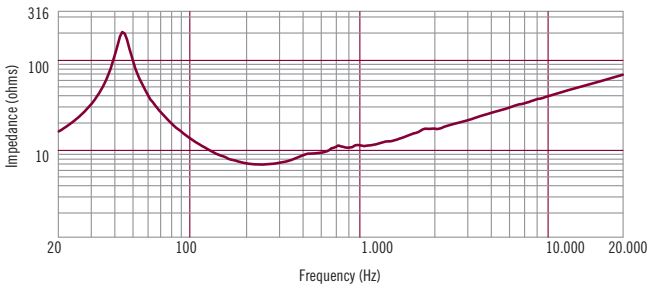
The MB15N401 is ideal for use in applications where is required good power handling, very high efficiency and perfect linearity. Is the ideal 15” woofer for mid-bass application in the compact 2 way system. The robust mechanical design and optimised weight of the device make it desirable for use in fixed installation or portable professional loudspeaker system.







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power [1]	1700	Watts
Power handling capacity [2]	850	Watts
Sensitivity [3]	100	dB
Frequency Range	40 - 2000	Hz
Effective Piston Diameter	340/13.4	mm/inch
Max Excursion Before Damage (peak to peak)	40/1.57	mm/inch
Minimum Impedance	6,4	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	18/0.70	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	12/0.47	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	Triple roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	42	Hz
DC resistance	Re	5.0	ohm
Mechanical factor	Qms	7.7	
Electrical factor	Qes	0.20	
Total factor	Qts	0.19	
BL Factor	BL	26.1	T · m
Effective Moving Mass	Mms	100	gr
Equivalent Cas air load	Vas	136	liters
Effettive piston area	Sd	0.091	m^2
Max. linear excursion (mathematical) [5]	Xmax	5.5	mm
Voice - coil inductance @ 1KHz	Le1K	1.6	mH
Half-space efficiency	Eff	4.86	%

Mounting Information

Overall Diameter	393/15.5	mm/inch
Bolt Circle Diameter	371-376/14.6-14.8	mm/inch
Bolt Hole Diameter	6.5/0.25	mm/inch
Front Mount Baffle Cut-out	354/13.9	mm/inch
Rear Mount Baffle Cut-out	354/14.2	mm/inch
Depth	158/6.2	mm/inch
Volume occupied by the driver [6]	3.8/0.13	liters/ft3

Shipping Information

Net Weight	7.5/16.6	Kg/Lbs
Shipping Weight	8.1/18	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

MID-BASS
MB15N351

Professional Low Frequency Transducer

The MB15N351 is designed to provide an excellent frequency response linearity with very low distortion. A very strong neodymium magnetic structure guarantee dynamic and precision, a new and unique 3,5" voice coil design provides a very high power handling, especially recommended in comparison to a standard 3" voice coil. The unique Dual-forced air venting system guarantee a very efficient voice coil ventilation to minimize the power compression and provide higher power handling.

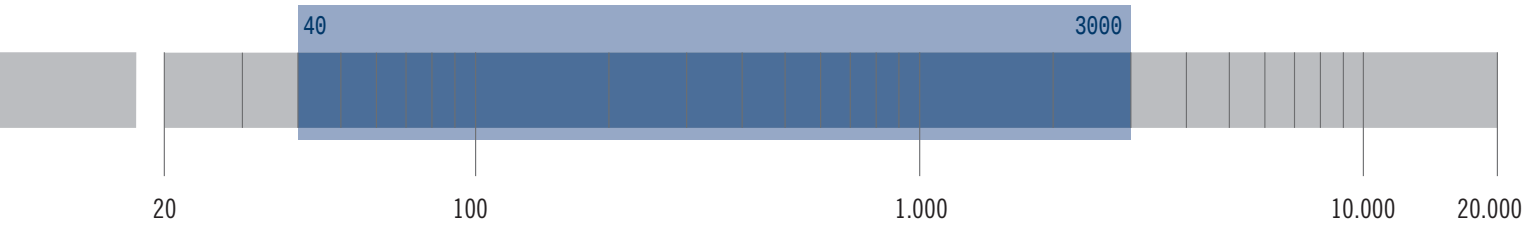
PART NUMBER **11100025**

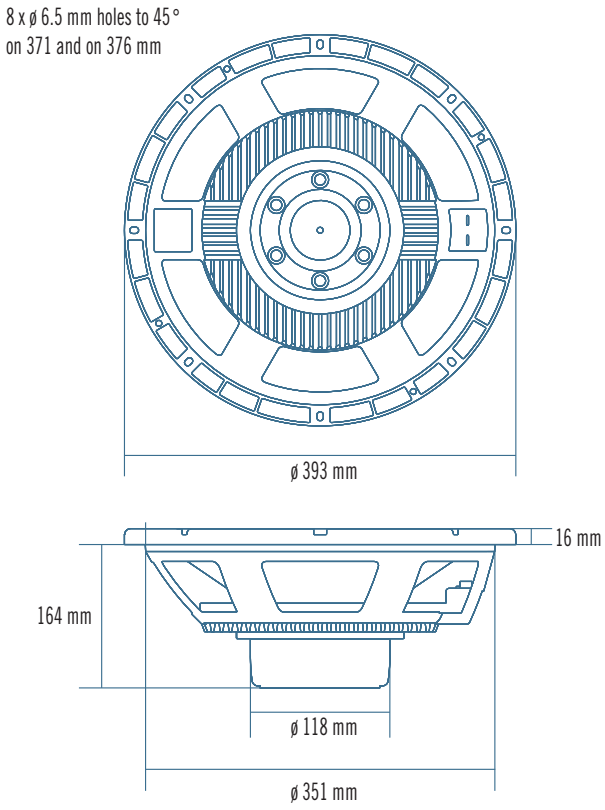
Features

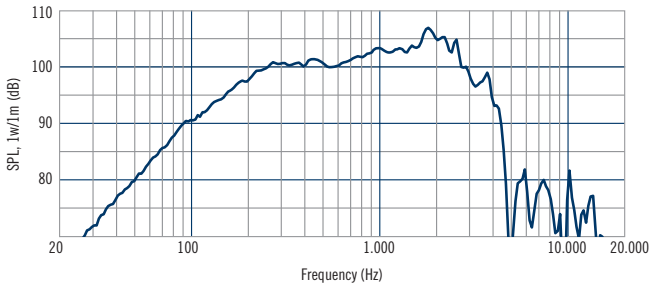
- 3,5-inch, inside-outside copper voice coil
- 1300 Watt continuous program power handling
- 100 dB Sensitivity
- 40 Hz - 3 kHz Frequency range
- Dual-forced air ventilation for minimum power compression
- Dual spider design with silicon based damping control

Applications

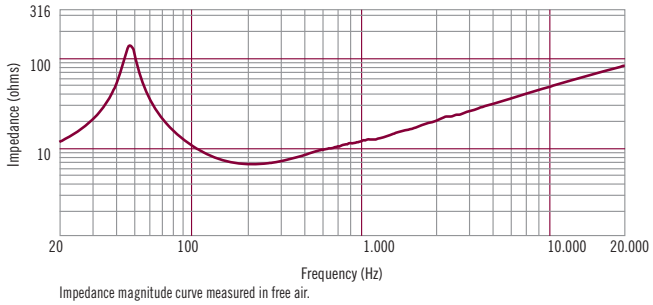
The MB15N351 is ideal for use in applications where is required a very high efficiency and linearity with high power handling. It's especially recommended for high powered multi-way system.







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power [1]	1300	Watts
Power handling capacity [2]	650	Watts
Sensitivity [3]	100	dB
Frequency Range	40 - 3000	Hz
Effective Piston Diameter	330/13	mm/inch
Max Excursion Before Damage (peak to peak)	39/1.5	mm/inch
Minimum Impedance	6,8	ohm
Voice Coil Diameter	87/3.4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	16.5/0.65	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	11/0.43	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M-roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	42	Hz
DC resistance	Re	5.6	ohm
Mechanical factor	Qms	4.0	
Electrical factor	Qes	0.24	
Total factor	Qts	0.22	
BL Factor	BL	22.5	T · m
Effective Moving Mass	Mms	80	gr
Equivalent Cas air load	Vas	191	liters
Effettive piston area	Sd	0.0855	m^2
Max. linear excursion (mathematical) [5]	Xmax	5.5	mm
Voice - coil inductance @ 1KHz	Le1K	1.65	mH
Half-space efficiency	Eff	5.68	%

Mounting Information

Overall Diameter	393/15.5	mm/inch
Bolt Circle Diameter	371-376/14.6-14.8	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	354/13.9	mm/inch
Rear Mount Baffle Cut-out	354/14.2	mm/inch
Depth	164/6.4	mm/inch
Volume occupied by the driver [6]	3.8/0.13	liters/ft3

Shipping Information

Net Weight	5.0/11.0	Kg/Lbs
Shipping Weight	5.8/12.7	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 500-2,5 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
LF12N401

Professional Low Frequency Transducer

The LF12N401 is designed to provide an excellent frequency response linearity with very low distortion. A very strong neodymium magnetic structure as LF18N401 guarantee dynamic and precision , the standard 4" voice coil design provides a very high power handling. The unique Dual-forced air venting system guarantee a very efficient voice coil ventilation to minimize the power compression and provide a good power handling.

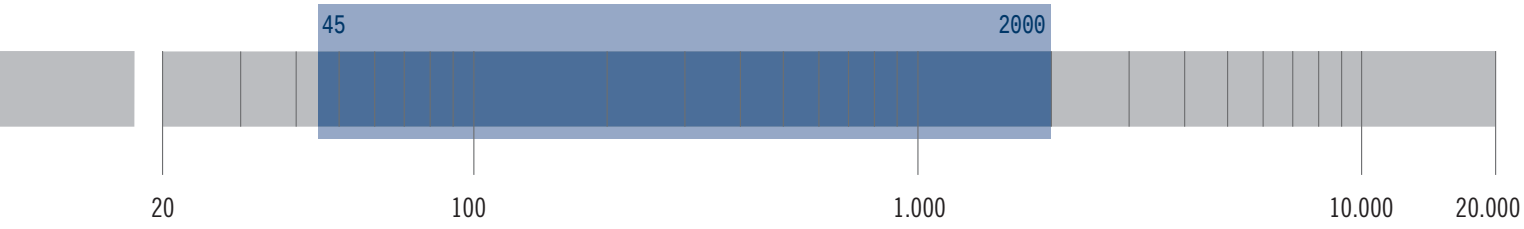
PART NUMBER **11100031**

Features

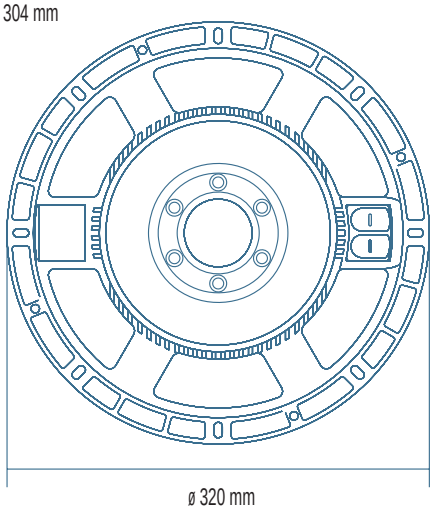
- 4-inch, fibreglass inside-outside copper voice coil
- 1600 Watt continuous program power handling
- 96 dB Sensitivity
- 45 Hz - 2 kHz Frequency range
- Dual-forced air ventilation for minimum power compression
- Single spider designed

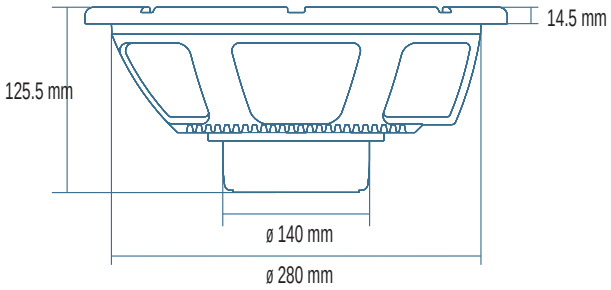
Applications

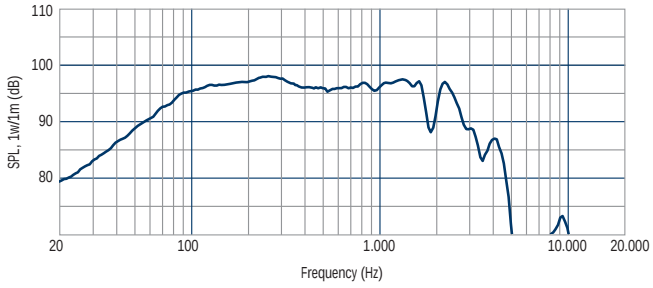
The LF12N401 is ideal for use in applications where is required a low frequency in very small cabinet volume. Specially designed for touring, perfect for high professional bass reflex and horn loaded system.



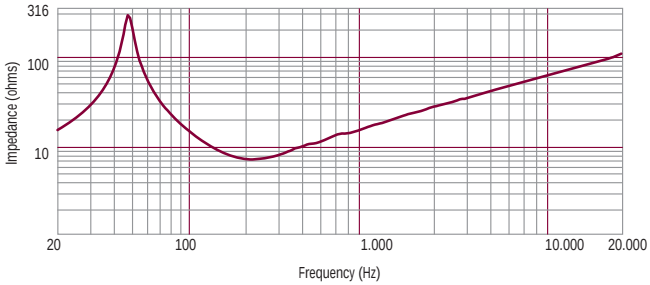
8 x ø 6.5 mm holes to 45°
on 293.5 and on Ø 304 mm







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	300/12	mm/inch
Rated Impedance	8	ohm
Program Power [1]	1600	Watts
Power handling capacity [2]	800	Watts
Sensitivity [3]	96	dB
Frequency Range	45 - 2000	Hz
Effective Piston Diameter	260/10.2	mm/inch
Max Excursion Before Damage (peak to peak)	50/1.96	mm/inch
Minimum Impedance	7.2	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	21/0.82	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	15/0.6	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	Triple roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	48	Hz
DC resistance	Re	5.5	ohm
Mechanical factor	Qms	9,1	
Electrical factor	Qes	0.21	
Total factor	Qts	0.20	
BL Factor	BL	26	T · m
Effective Moving Mass	Mms	78	gr
Equivalent Cas air load	Vas	50	liters
Effettive piston area	Sd	0.053	m^2
Max. linear excursion (mathematical) [5]	Xmax	7,3	mm
Voice - coil inductance @ 1KHz	Le1K	1.7	mH
Half-space efficiency	Eff	2,54	%

Mounting Information

Overall Diameter	320/12.6	mm/inch
Bolt Circle Diameter	293-304/11.5-12	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	282/11.1	mm/inch
Rear Mount Baffle Cut-out	284/11.2	mm/inch
Depth	140/5.5	mm/inch
Volume occupied by the driver [6]	2.9/0.098	liters/ft3

Shipping Information

Net Weight	6,5/14,3	Kg/Lbs
Shipping Weight	7,5/16,5	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 500-2,5 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

MID-BASS
MB12N351

Professional Low Frequency Transducer

The MB12N351 is designed to provide an excellent frequency response linearity with very low distortion. A very strong neodymium magnetic structure guarantee dynamic and precision, a new and unique 3,5" voice coil design provides a very high power handling, especially recommended in comparison to a standard 3" voice coil. The unique Dual-forced air venting system guarantee a very efficient voice coil ventilation to minimize the power compression and provide higher power handling.

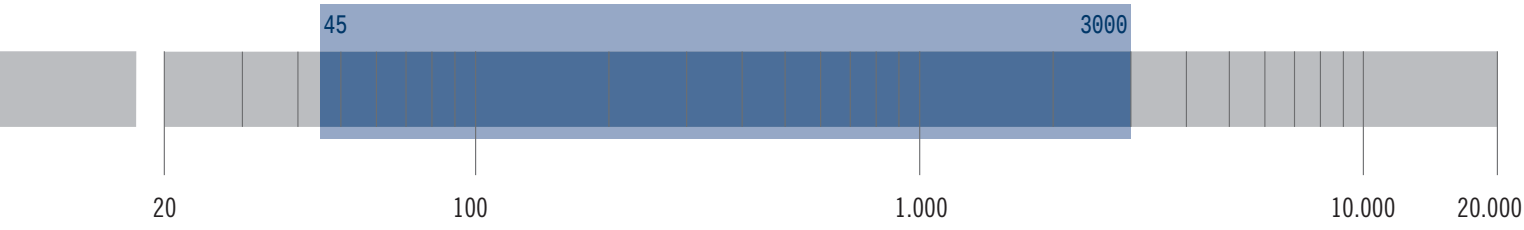
PART NUMBER **11100026**

Features

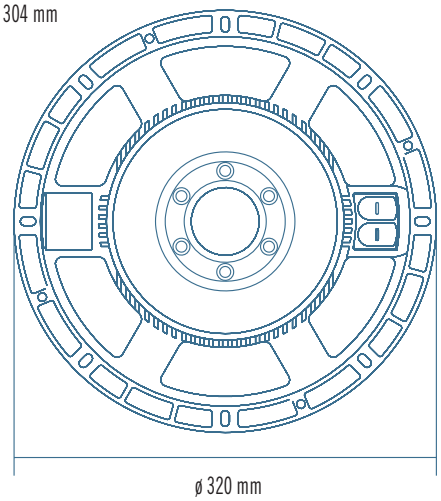
- 3,5-inch, inside-outside copper voice coil
- 1300 Watt continuous program power handling
- 99 dB Sensitivity
- 45 Hz - 3 kHz Frequency range
- Dual-forced air ventilation for minimum power compression
- Single spider design with silicon based damping control

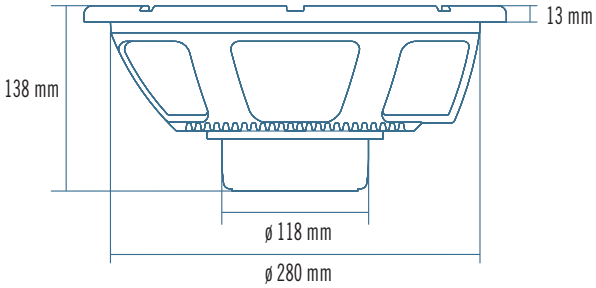
Applications

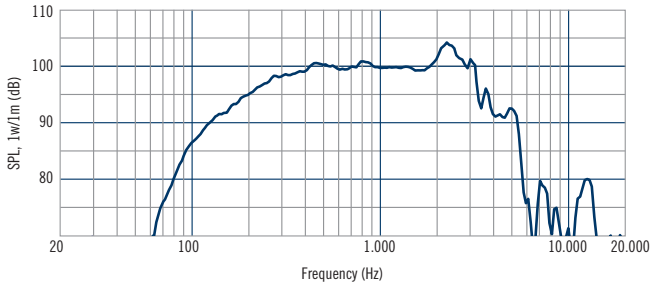
The MB12N351 is ideal for use in applications where is required a very high efficiency and linearity with high power handling. It's especially recommended for high powered multi-way system.



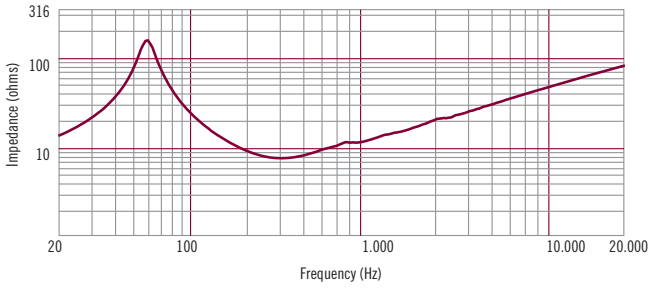
8 holes ø 6,5 mm to 45°
on ø 293,5 mm and on ø 304 mm







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	300/12	mm/inch
Rated Impedance	8	ohm
Program Power [1]	1300	Watts
Power handling capacity [2]	650	Watts
Sensitivity [3]	99	dB
Frequency Range	45 - 3000	Hz
Effective Piston Diameter	260/10.2	mm/inch
Max Excursion Before Damage (peak to peak)	39/1.5	mm/inch
Minimum Impedance	7.0	ohm
Voice Coil Diameter	87/3.4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	16.5/0.65	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	11/0.43	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	55	Hz
DC resistance	Re	5.6	ohm
Mechanical factor	Qms	4.5	
Electrical factor	Qes	0.21	
Total factor	Qts	0.20	
BL Factor	BL	22.5	T · m
Effective Moving Mass	Mms	54	gr
Equivalent Cas air load	Vas	61	liters
Effettive piston area	Sd	0.053	m^2
Max. linear excursion (mathematical) [5]	Xmax	5.5	mm
Voice - coil inductance @ 1KHz	Le1K	1.65	mH
Half-space efficiency	Eff	4.66	%

Mounting Information

Overall Diameter	320/12.6	mm/inch
Bolt Circle Diameter	293-304/11.5-12	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	282/11.1	mm/inch
Rear Mount Baffle Cut-out	284/11.2	mm/inch
Depth	138/5.4	mm/inch
Volume occupied by the driver [6]	2.2/0.077	liters/ft3

Shipping Information

Net Weight	4.4/9.7	Kg/Lbs
Shipping Weight	5.2/11.4	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 500-2,5 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

MIDRANGE
MR10N301

Professional Low Frequency Transducer

The MR10N301 is a high efficiency, high power midrange specially designed to provide superior sound pressure level in a very compact size. The total weight is reduced to less than half of a comparable ceramic midrange thanks to an incredibly powerful neodymium magnet assembly. The unique sealed basket design doesn't require a back sealing chamber, simplifying the cabinet design and improving heat dissipation. Every detail of this speaker has been optimized to offer the best response and perfect control to the midrange frequencies.

PART NUMBER **11100005**

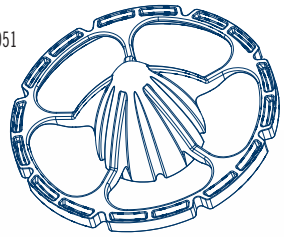
Features

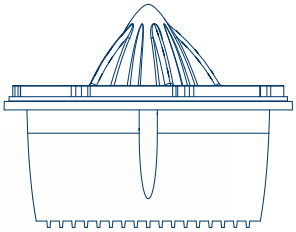
- 3-inch Inside/outside voice coil, high BL neodymium design
- Very high sensitivity (109 dB/1w in horn loaded application), very high BL factor
- 600 Watt Continuous program power handling
- Frequency range: 150 Hz - 2 kHz (mid and mid-low frequencies)
- Unique aluminum sealed basket featuring vented fin heat dissipation design
- Calibrated back volume for a perfect time domain transient reproduction

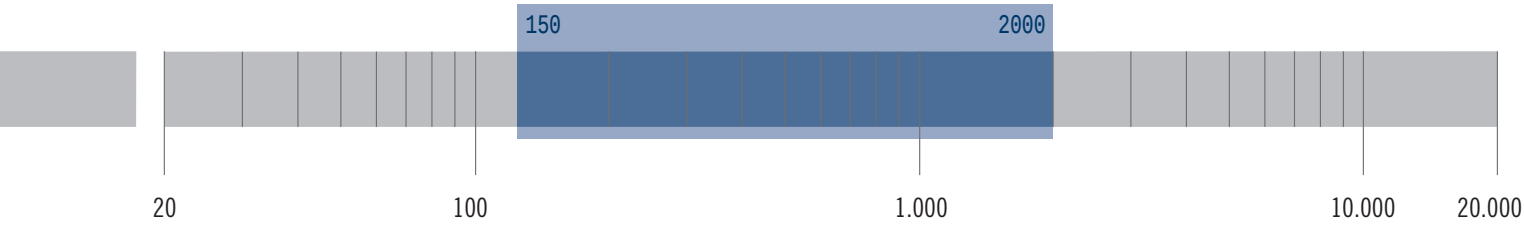
Applications

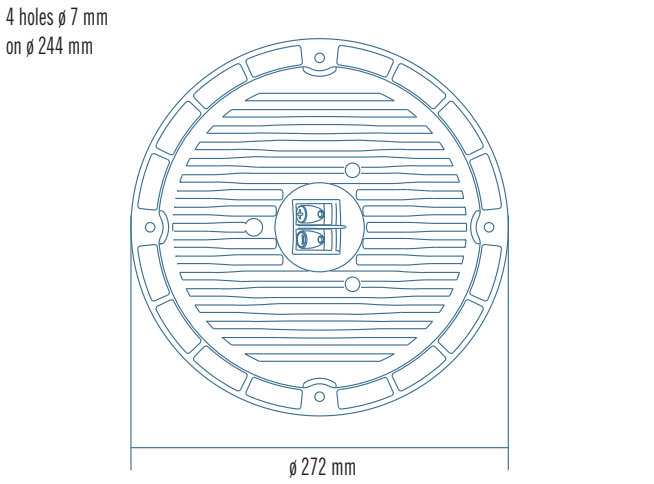
The MR10N301 is especially designed for horn-loading and line array configurations. The ideal range of application are mid and mid-low frequencies.
The combination of the 3" voice coil, the neodymium motor and the heat sink basket design makes this driver the ideal solution for the most demanding applications.

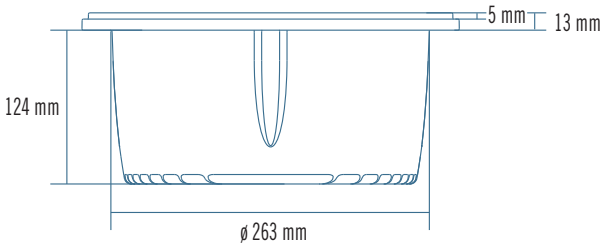
PHASE PLUG
part number 13360051

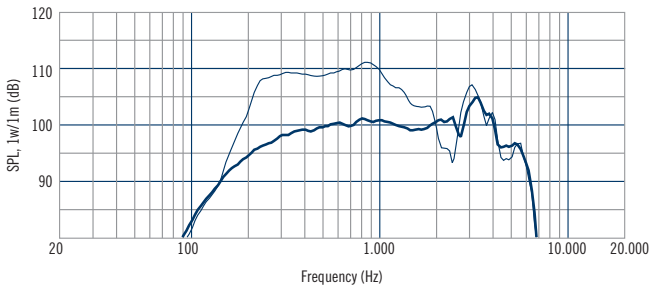




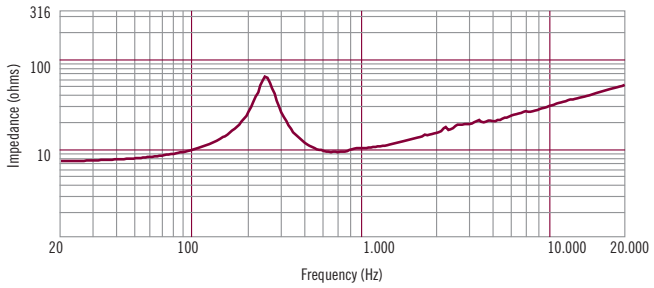








Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted on IEC panel (ticker curve) and on a 60 x 40 horn (lighter curve).



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	260/10	mm/inch
Rated Impedance	8	ohm
Program Power [1]	600	Watts
Power handling capacity [2]	300	Watts
Sensitivity [3]	102	dB
Frequency Range	150 - 2000	Hz
Effective Piston Diameter	210/8.3	mm/inch
Max Excursion Before Damage (peak to peak)	20/0,8	mm/inch
Minimum Impedance	8.5	ohm
Voice Coil Diameter	76/3	mm/inch
Voice Coil Material	Aluminum	
Voice Coil Winding Depth	11/0.4	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	10/0.4	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	250	Hz
DC resistance	Re	6.2	ohm
Mechanical factor	Qms	6.48	
Electrical factor	Qes	0.72	
Total factor	Qts	0.65	
BL Factor	BL	20.7	T · m
Effective Moving Mass	Mms	31.8	gr
Equivalent Cas air load	Vas	2.2	liters
Effettive piston area	Sd	0.035	m^2
Max. linear excursion (mathematical) [5]	Xmax	1.4	mm
Voice - coil inductance @ 1KHz	Le1K	1.17	mH
Half-space efficiency	Eff	9.26	%

Mounting Information

Overall Diameter	272/10.7	mm/inch
Bolt Circle Diameter	244.5/9.6	mm/inch
Bolt Hole Diameter	7/0.3	mm/inch
Front Mount Baffle Cut-out	235/9.3	mm/inch
Rear Mount Baffle Cut-out	232/9.1	mm/inch
Depth	124/4.9	mm/inch
Volume occupied by the driver [6]	5.0/0.18	liters/ft3

Shipping Information

Net Weight	3.9/8.6	Kg/Lbs
Shipping Weight	4.3/9.5	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 500-2000 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

MIDRANGE
MR8N301

Professional Low Frequency Transducer

The MR8N301 is a high efficiency, high power midrange specially designed to provide superior sound pressure level in a very compact size. The total weight is reduced to less than half of a comparable ceramic midrange thanks to an incredibly powerful neodymium magnet assembly. The unique sealed basket design doesn't require a back sealing chamber, simplifying the cabinet design and improving heat dissipation. Every detail of this speaker has been optimized to offer maximum linearity and perfect control to the midrange and mid-high frequencies.

PART NUMBER **11100006**

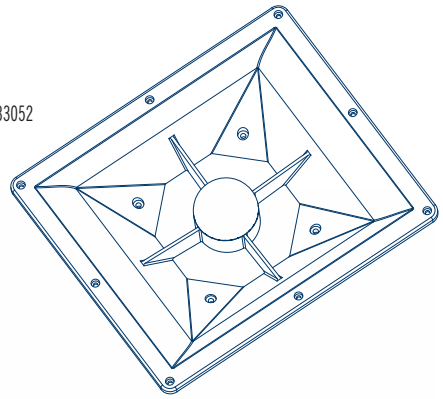
Features

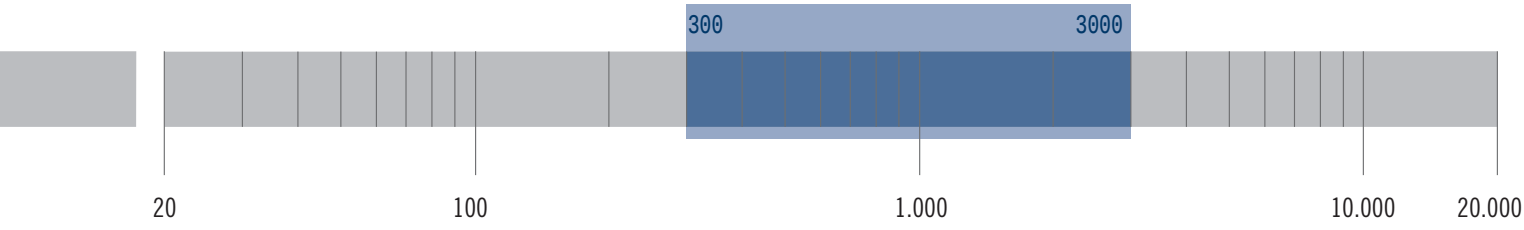
- 3-inch Inside/outside voice coil, high BL neodymium design
- 400 Watt Continuous program power handling
- Very high sensitivity (107 dB/1w in horn loaded application), very high BL factor
- Frequency range: 300 Hz - 3 kHz (mid and mid-high frequencies)
- Unique aluminum sealed basket featuring vented fin heat dissipation design
- Calibrated back volume for a perfect time domain transient reproduction

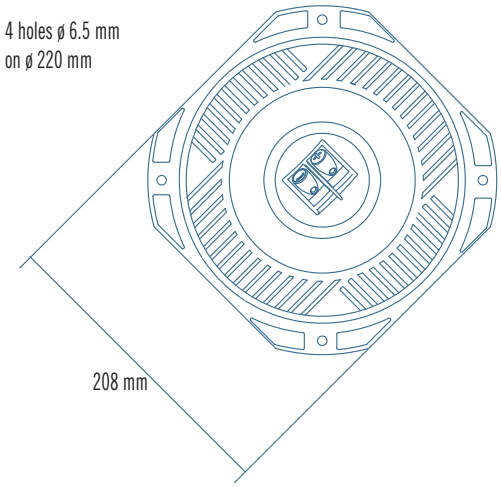
Applications

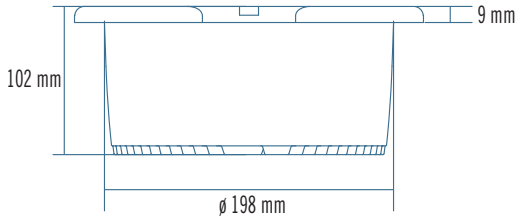
The MR8N301 is especially designed for horn-loading and line array configurations. The ideal range of application are mid and mid-high frequencies.
The combination of the 3" voice coil, the neodymium motor and the heat sink basket design makes this driver the ideal solution for the most demanding applications.

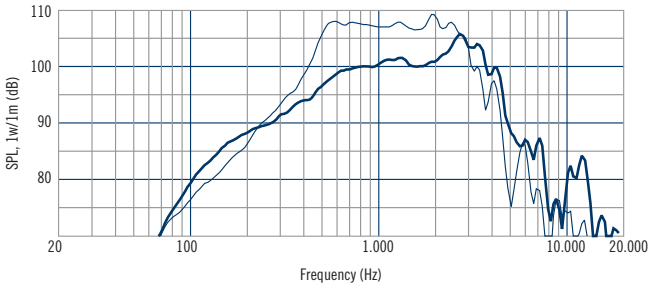
H6000
80° x 60° Horn
part number 13133052



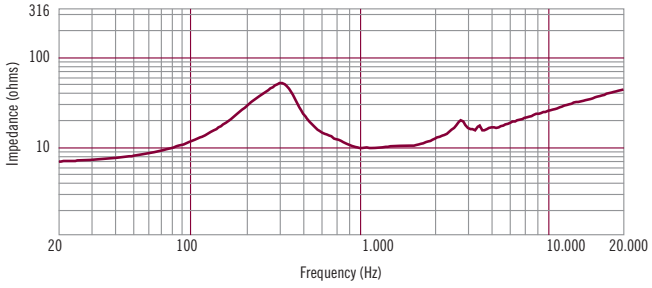








Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted on IEC panel (ticker curve) and on a 80 x 60 horn (lighter curve).



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	200/8	mm/inch
Rated Impedance	8	ohm
Program Power [1]	400	Watts
Power handling capacity [2]	200	Watts
Sensitivity [3]	102	dB
Frequency Range	300 - 3000	Hz
Effective Piston Diameter	168/6.6	mm/inch
Max Excursion Before Damage (peak to peak)	15/0.6	mm/inch
Minimum Impedance	9.8	ohm
Voice Coil Diameter	76/3	mm/inch
Voice Coil Material	Aluminum	
Voice Coil Winding Depth	11/0.4	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	8/0.3	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	Triple - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	310	Hz
DC resistance	Re	6.6	ohm
Mechanical factor	Qms	3.45	
Electrical factor	Qes	0.41	
Total factor	Qts	0.37	
BL Factor	BL	17.8	T · m
Effective Moving Mass	Mms	10.1	gr
Equivalent Cas air load	Vas	1.65	liters
Effettive piston area	Sd	0.021	m^2
Max. linear excursion (mathematical) [5]	Xmax	3.5	mm
Voice - coil inductance @ 1KHz	Le1K	1.16	mH
Half-space efficiency	Eff	12.8	%

Mounting Information

Overall Diameter	238/9.4	mm/inch
Bolt Circle Diameter	220/8.7	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	202/8,0	mm/inch
Rear Mount Baffle Cut-out	182/7.2	mm/inch
Depth	101.5/4.0	mm/inch
Volume occupied by the driver [6]	2/0.07	liters/ft3

Shipping Information

Net Weight	3.5/7.7	Kg/Lbs
Shipping Weight	4.0/8.8	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 500-2000 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

COAXIAL
CX15N351

Professional Low Frequency Transducer

PART NUMBER **11100032**

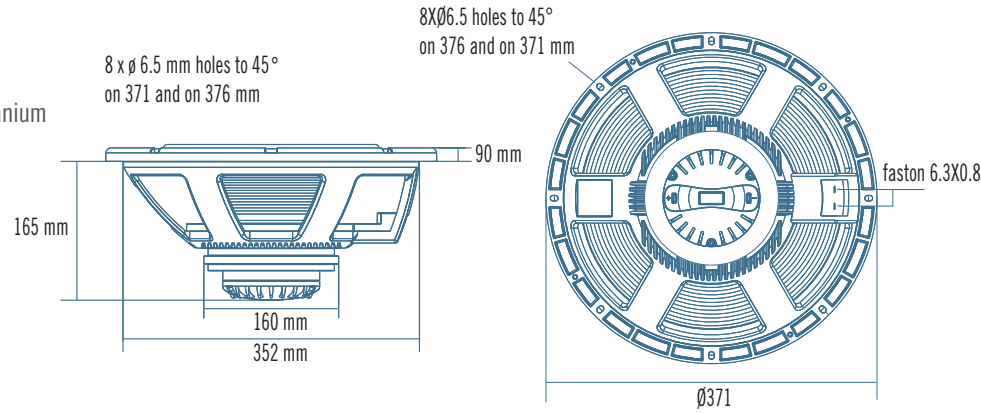
The CX15N351 is designed to provide an excellent frequency response linearity with very low distortion. This coaxial use a strongest unique neodymium magnetic structure that guarantee high dynamic and sensitivity for both components. The mid-bass section use a 3,5" voice coil design provides a very high power handling, especially recommended in comparison to a standard 3" voice coil, demodulation ring get a fastest time response and lower distortion .The compression driver use a 2.5" diaphragm with a 1.4" throat featuring several state of the art technologies. The diaphragm and suspension are formed from 0.05mm thick pure titanium.

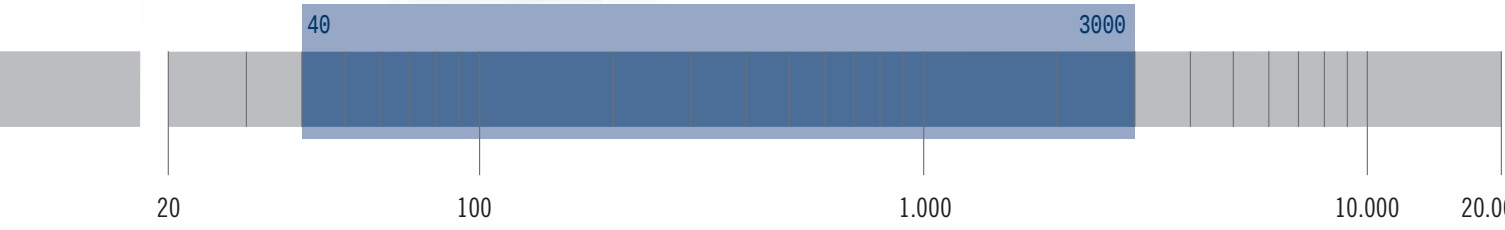
Coax. Features

- 3,5 - inch Inside/Outside copper voice coil
- 900 Watt continuous program power LF
- 101 dB Sensitivity
- 40 Hz - 3 kHz Frequency range
- Dual-forced air ventilation for minimum power compression
- Dual spider design with silicon based damping control
- 2.5-inch Diaphragm, 1.4-inch Exit Throat/ Pure Titanium Compression Driver
- 180 Watt Continuous program power HF
- Frequency range: 700Hz - 20kHz
- Direct Drive™ Voice Coil Assembly
- 3-slot, optimized geometry phase plug
- Aluminum rear cover dissipation design
- Copper inductance ring for extended response
- Vented, damped, low distortion, variable profile suspension System

Applications

The CX15N351 transducer is designed for use in compact reflex enclosures and stage monitors. Is a ideal for use in applications where is required a very high efficiency and linearity with high power handling.



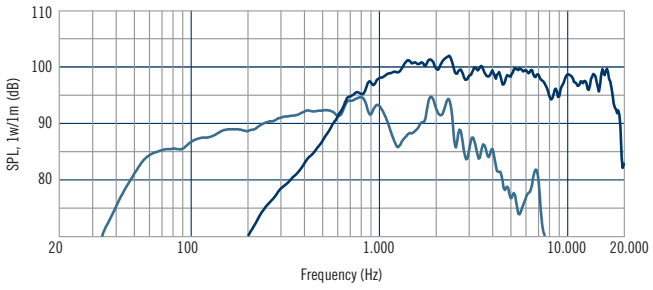


CX15N351 DRIVER

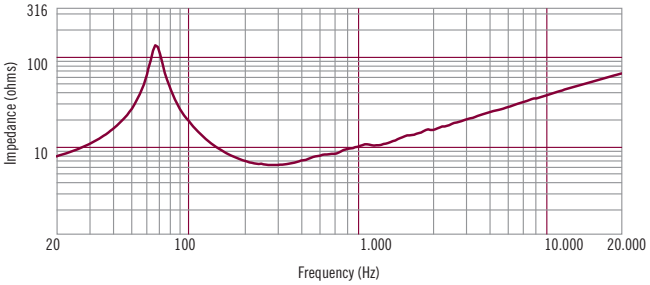
Nominal diameter	35.5/1.4	mm/inch
Rated impedance	8	ohm
Program power	180	Watts
Power handling capacity	90	Watts
Sensitivity 1W, 1m	110	dB
Frequency range	700 - 20000	Hz
Minimum impedance	7.9	ohm
Voice Coil diameter	63.7/2.5	mm/inch
Voice Coil material	Edgewound A1	
Number of layers	1- Outside	
Diaphragm material	Pure Titanium	
Diaphragm design	Dome	
Suspension material	Pure Titanium	
Suspension design	Progressive	
BL factor	10.4	T x m
Flux density	2.0	T
Phase plug design	3 slot	
Phase plug material	Aluminium	
Magnetics	Neodymium	
Voice coil demodulation	Copper ring	

CX15N351 HORN

Throat diameter	36/1.4
Nominal coverage (-6dB)	60°
Cut-off Frequency	800
Material	Structural Polyurethane



Frequency response curve of the loudspeaker taken in a reflex box with an internal volume of 80 litres tuned at 55 Hz.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power [1]	900	Watts
Power handling capacity [2]	450	Watts
Sensitivity [3]	101	dB
Frequency Range	40 - 3000	Hz
Effective Piston Diameter	330/13	mm/inch
Max Excursion Before Damage (peak to peak)	39/1.5	mm/inch
Minimum Impedance	6,8	ohm
Voice Coil Diameter	87/3.4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	16.5/0.65	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	11/0.43	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M-roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	55	Hz
DC resistance	Re	5.6	ohm
Mechanical factor	Qms	6	
Electrical factor	Qes	0.27	
Total factor	Qts	0.26	
BL Factor	BL	23.5	T · m
Effective Moving Mass	Mms	80	gr
Equivalent Cas air load	Vas	110	liters
Effettive piston area	Sd	0.086	m^2
Max. linear excursion (mathematical) [5]	Xmax	5.5	mm
Voice - coil inductance @ 1KHz	Le1K	1.65	mH
Half-space efficiency	Eff	6.53	%

Mounting Information

Overall Diameter	393/15.5	mm/inch
Bolt Circle Diameter	371-376/14.6-14.8	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	354/13.9	mm/inch
Rear Mount Baffle Cut-out	354/14.2	mm/inch
Depth	164/6.4	mm/inch
Volume occupied by the driver [6]	3.8/0.13	liters/ft3

Shipping Information

Net Weight	6.514.3	Kg/Lbs
Shipping Weight	7.3/16	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 500-2,5 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

LOW FREQUENCY **TRANSDUCERS**

RCF was the first manufacturer introducing many of the innovations that are now recognised standard in professional transducers, pioneering new solutions, from inside-outside voice coils to dual spider silicon damped designs. Our range, including several industry milestones, is able to provide innovative tools and solutions for the most demanding speaker manufacturers.

MAGNETIC **CIRCUITS DESIGNS**

RCF R&D set out to develop magnetic circuits capable of delivering the highest, balanced level of performance in three specific areas; maintenance of a consistent, high integrity magnetic flux, distortion lowering design techniques and efficient integration of the magnetic circuit design within the overall design of the loudspeaker cooling system. Our transducers features a fully optimized magnetic circuit highlighted by a flux maximizing design and a rear plate that provides the lightest possible weight and highest flux efficiency. The design is optimized to generate the minimum amount of flux modulation in the magnetic assembly during typical voice coil movement within the gap.

DUAL
SILICON SPIDERS

RCF original dual silicone sealed spider design offers many advantages:
- the two spiders offers double resistance to fatigue;
- the silicon between the cloth layers, being a very high memory material, provides the best shape stability to the spiders;
- the system, being sealed, functions as an air pump expelling hot air and drawing in cool air every time the cone assembly moves.

RCF dual silicon sealed spider design provides to our transducers cooler operating conditions and optimised power compression.

PROGRESSIVE SPACED
DEMODULATION RINGS

Our top level low frequency transducers feature RCF unique spaced gap demodulation technology designed to dramatically lower distortion artifacts within the loudspeaker's operating frequency band. This technology assists in progressively braking the voice coil as it reaches its maximum excursion point. This braking effect provides a much quieter, smoother transition for the moving mass as it reaches its maximum excursion limits.

WOOFER
LF18X400

Professional Low Frequency Transducer

PART NUMBER **11185002**

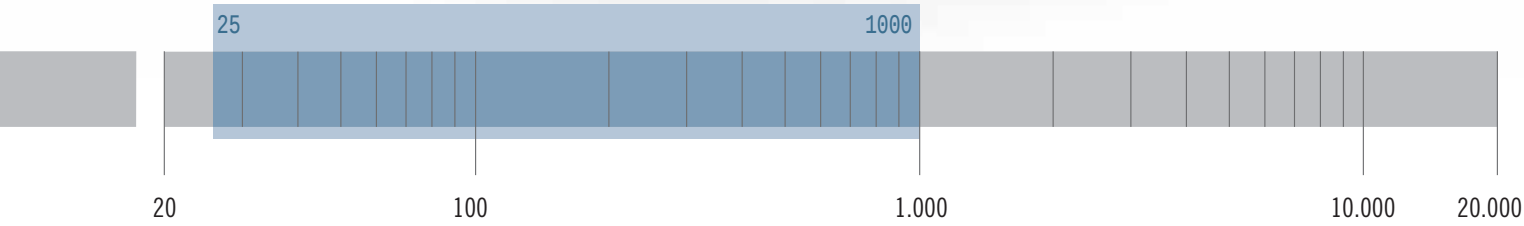
Incredibly linear frequency response characteristics, extreme high power handling while generating the lowest harmonic distortion of any comparable 18-inch transducer within its application range. The LF18X400 uses a fibre loaded cone assembly along with a high excursion triple roll, constant geometry surround. A fully optimised T-pole design generate the minimum amount of flux modulation. The T-pole also features RCF Precision's spaced gap demodulation technology, progressively braking the voice coil, providing a much smoother transition for the moving mass as it reaches its maximum excursion limits. Forced air venting system.

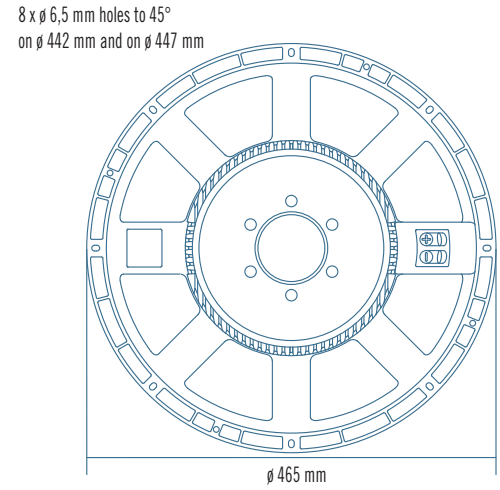
Features

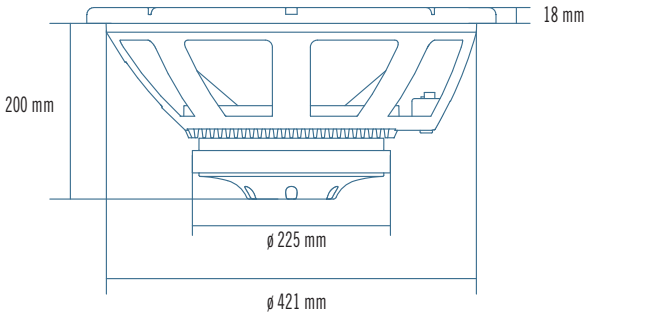
- 4-inch, fibreglass inside-outside copper voice coil
- 2000 Watt continuous program power handling
- 97.5 dB Sensitivity
- 25 Hz - 1 kHz Frequency range
- Progressive, spaced, aluminum demodulation rings
- Forced air ventilation and 14 mm top plate for minimum power compression
- Dual spider design with silicon based dampening control
- Triple-roll surround and corrugated straight cone geometry

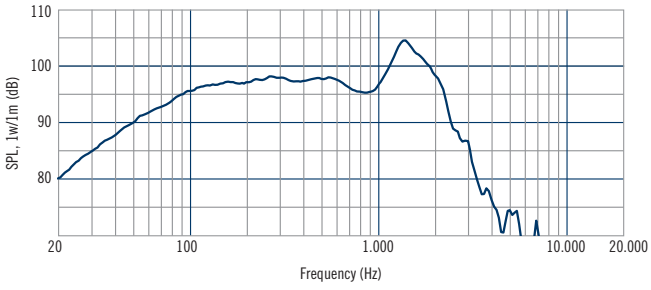
Applications

The LF18X400 is ideal for use in applications where incredible power handling, long excursion and perfect control is required. Ideal for high quality professional bass reflex and bass-horn systems. The transducer's low frequency extension, coupled with its extremely low generation of harmonic distortion, also makes it ideal for use within critical listening applications such as studio monitoring subwoofer systems.

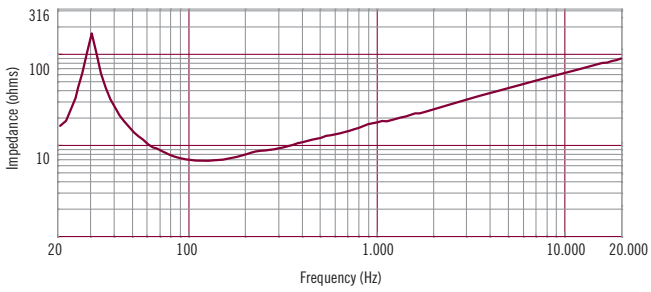








Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	460/18	mm/inch
Rated Impedance	8	ohm
Program Power [1]	2000	Watts
Power handling capacity [2]	1000	Watts
Sensitivity [3]	97.5	dB
Frequency Range	25 - 1000	Hz
Effective Piston Diameter	395/15.6	mm/inch
Max Excursion Before Damage (peak to peak)	50/2.0	mm/inch
Minimum Impedance	6.0	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	25/1.0	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	14/0.55	mm/inch
Cone Material	No pressed pulp	
Cone Design	Straight	
Surround Material	Polycotton	
Surround Design	Triple roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	28	Hz
DC resistance	Re	5.1	ohm
Mechanical factor	Qms	6.5	
Electrical factor	Qes	0.29	
Total factor	Qts	0.27	
BL Factor	BL	25	T · m
Effective Moving Mass	Mms	192	gr
Equivalent Cas air load	Vas	340	liters
Effettive piston area	Sd	0.122	m^2
Max. linear excursion (mathematical) [5]	Xmax	9.0	mm
Voice - coil inductance @ 1KHz	Le1K	2.3	mH
Half-space efficiency	Eff	2.64	%

Mounting Information

Overall Diameter	465/18.3	mm/inch
Bolt Circle Diameter	442-447/17.4-17.6	mm/inch
Bolt Hole Diameter	6.5/0.25	mm/inch
Front Mount Baffle Cut-out	424/16.7	mm/inch
Rear Mount Baffle Cut-out	424/16.7	mm/inch
Depth	210/8.3	mm/inch
Volume occupied by the driver [6]	7.0/0.25	liters/ft3

Shipping Information

Net Weight	13.3/29.3	Kg/Lbs
Shipping Weight	14.3/31.5	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
L18P400

Professional Low Frequency Transducer

PART NUMBER **11100044**

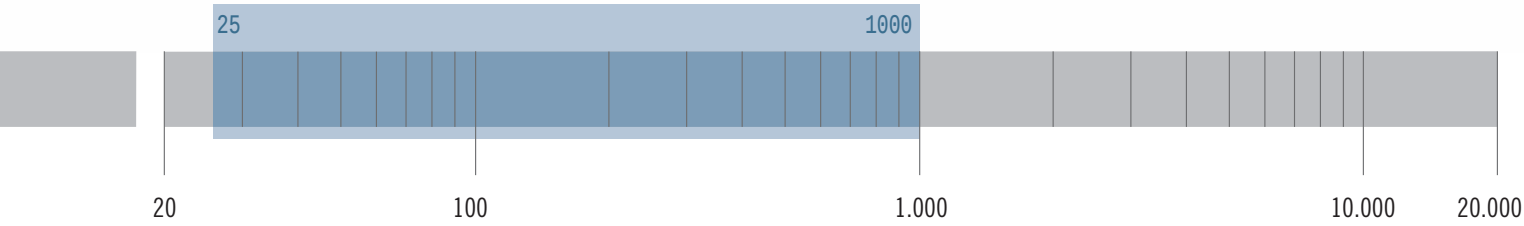
Incredibly linear frequency response characteristics, extreme high power handling while generating the lowest harmonic distortion of any comparable 18-inch transducer within its application range. The L18P400 uses a fibre loaded cone assembly along with a high excursion triple roll, constant geometry surround. A fully optimised T-pole design generate the minimum amount of flux modulation. The T-pole also features RCF Precision's spaced gap demodulation technology, progressively braking the voice coil, providing a much smoother transition for the moving mass as it reaches its maximum excursion limits. Forced air venting system.

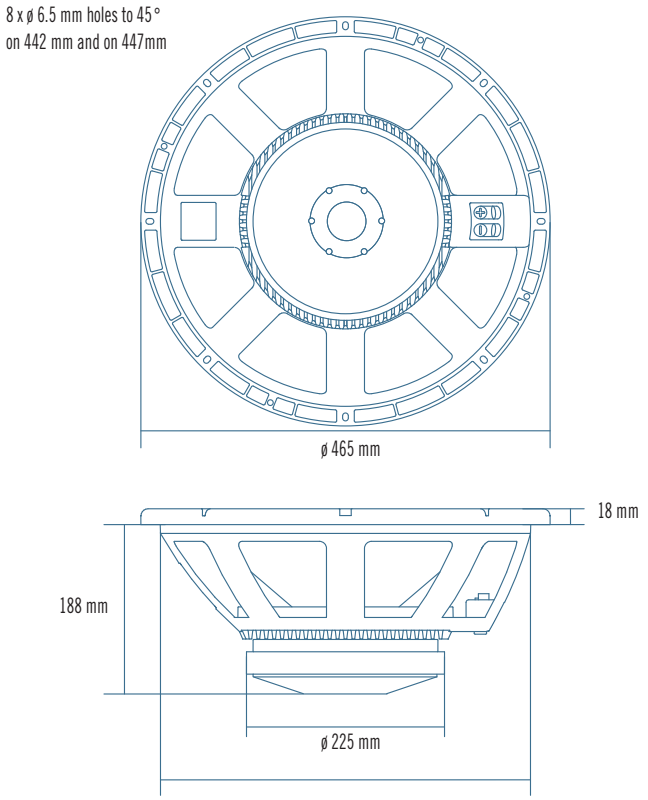
Features

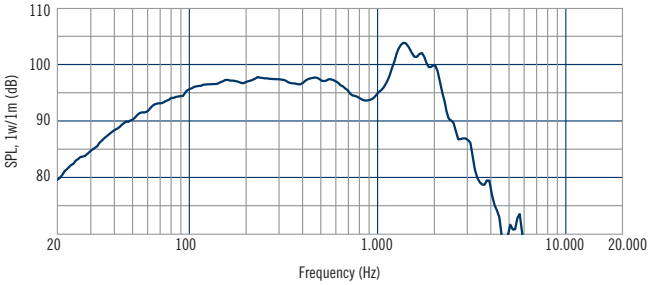
- 4-inch, fibreglass inside-outside copper voice coil
- 2000 Watt continuous program power handling
- 97.5 dB Sensitivity
- 25 Hz - 1 kHz Frequency range
- Aluminum demodulation ring
- Forced air ventilation and 14 mm top plate for minimum power compression
- Dual spider design with silicon based dampening control
- Triple-roll surround and corrugated straight cone geometry

Applications

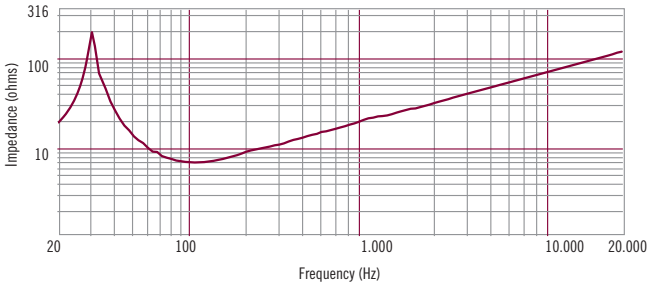
The L18P400 is ideal for use in applications where incredible power handling, long excursion and perfect control is required. Ideal for high quality professional bass reflex and bass-horn systems. The transducer's low frequency extension, coupled with its extremely low generation of harmonic distortion, also makes it ideal for use within critical listening applications such as studio monitoring subwoofer systems.







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	460/18	mm/inch
Rated Impedance	8	ohm
Program Power [1]	2000	Watts
Power handling capacity [2]	1000	Watts
Sensitivity [3]	97.5	dB
Frequency Range	25 - 1000	Hz
Effective Piston Diameter	395/15.6	mm/inch
Max Excursion Before Damage (peak to peak)	50/2.0	mm/inch
Minimum Impedance	6.5	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	25/1.0	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	15/0.6	mm/inch
Cone Material	No pressed pulp	
Cone Design	Straight	
Surround Material	Polycotton	
Surround Design	Triple roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	29	Hz
DC resistance	Re	5.1	ohm
Mechanical factor	Qms	7.6	
Electrical factor	Qes	0.29	
Total factor	Qts	0.28	
BL Factor	BL	24.6	T · m
Effective Moving Mass	Mms	200	gr
Equivalent Cas air load	Vas	340	liters
Effettive piston area	Sd	0.122	m^2
Max. linear excursion (mathematical) [5]	Xmax	8.8	mm
Voice - coil inductance @ 1KHz	Le1K	2.5	mH
Half-space efficiency	Eff	2.63	%

Mounting Information

Overall Diameter	465/18.3	mm/inch
Bolt Circle Diameter	442-447/17.4-17.6	mm/inch
Bolt Hole Diameter	6.5/0.25	mm/inch
Front Mount Baffle Cut-out	424/16.7	mm/inch
Rear Mount Baffle Cut-out	425/16.7	mm/inch
Depth	205/8.1	mm/inch
Volume occupied by the driver [6]	6.0/0.21	liters/ft3

Shipping Information

Net Weight	13.3/29.3	Kg/Lbs
Shipping Weight	14.3/31.5	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
LF18G401

Professional Low Frequency Transducer

The LF18G401 is a 18-inch woofer with linear frequency response characteristics and very high power handling. The LF18G401 uses a fibre loaded cone assembly along with a high excursion triple roll, constant geometry surround. This combination provides remarkable strength and a peak to peak maximum excursion of 50 mm.

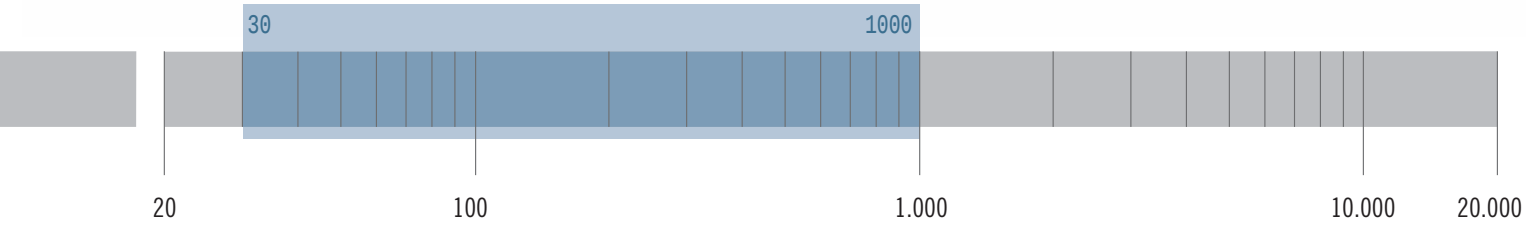
PART NUMBER **11100012**

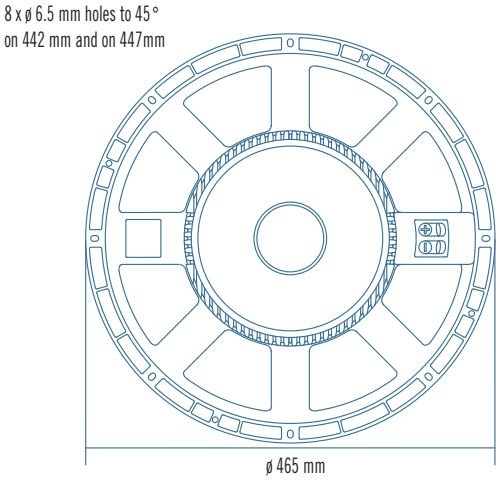
Features

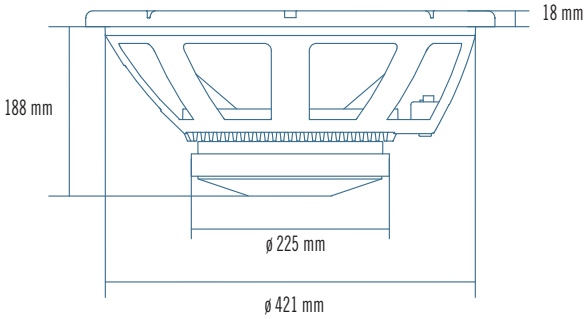
- 4-inch, fibreglass inside-outside copper voice coil
- 1800 Watt continuous program power handling
- 98 dB Sensitivity
- 30 Hz - 1 kHz Frequency range
- Dual spider design with silicon based dampening control
- Triple-roll surround and corrugated straight cone geometry

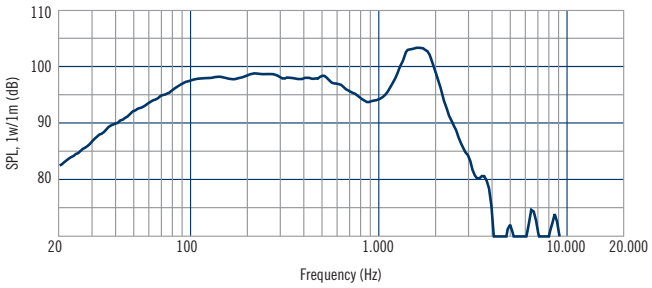
Applications

The LF18G401 is ideal for use in applications whereincredible power handling, long excursion and perfect control is required. Ideal for high quality professional bass reflex and bass-horn systems. The robust mechanical design and optimised weight of the device make it desirable for use in fixed installation or portable professional loudspeaker systems.

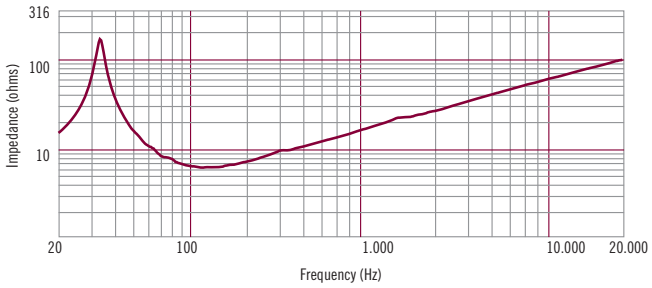








Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	460/18	mm/inch
Rated Impedance	8	ohm
Program Power [1]	1800	Watts
Power handling capacity [2]	900	Watts
Sensitivity [3]	98	dB
Frequency Range	30 - 1000	Hz
Effective Piston Diameter	395/15,6	mm/inch
Max Excursion Before Damage (peak to peak)	50/2.0	mm/inch
Minimum Impedance	5,9	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	23/0.9	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	12/0.5	mm/inch
Cone Material	No pressed pulp	
Cone Design	Straight	
Surround Material	Polycotton	
Surround Design	Triple roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	33	Hz
DC resistance	Re	4.8	ohm
Mechanical factor	Qms	7.6	
Electrical factor	Qes	0.30	
Total factor	Qts	0.29	
BL Factor	BL	24.6	T · m
Effective Moving Mass	Mms	182	gr
Equivalent Cas air load	Vas	268	liters
Effettive piston area	Sd	0.122	m^2
Max. linear excursion (mathematical) [5]	Xmax	8.5	mm
Voice - coil inductance @ 1KHz	Le1K	2.4	mH
Half-space efficiency	Eff	3.09	%

Mounting Information

Overall Diameter	465/18.3	mm/inch
Bolt Circle Diameter	442-447/17.4-17.6	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	424/16.7	mm/inch
Rear Mount Baffle Cut-out	424/16.7	mm/inch
Depth	205/8.1	mm/inch
Volume occupied by the driver [6]	6.0/0.21	liters/ft3

Shipping Information

Net Weight	13/28.9	Kg/Lbs
Shipping Weight	13.7/30.4	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
L18P300

Professional Low Frequency Transducer

In production for over 10 years, the L18P300 is an industry standard. The sturdy magnetic unit, with 15 mm thick plates and specially designed suspensions ensure an excellent control of amplitude of over +/- 12 millimetres. The special cooling system with forced air ventilation offer a great heat dissipation and the minimum levels of power compression available on the market.
Voice coil construction, suspensions and cone materials are upgraded in order to withstand up to a Kilowatt RMS power.

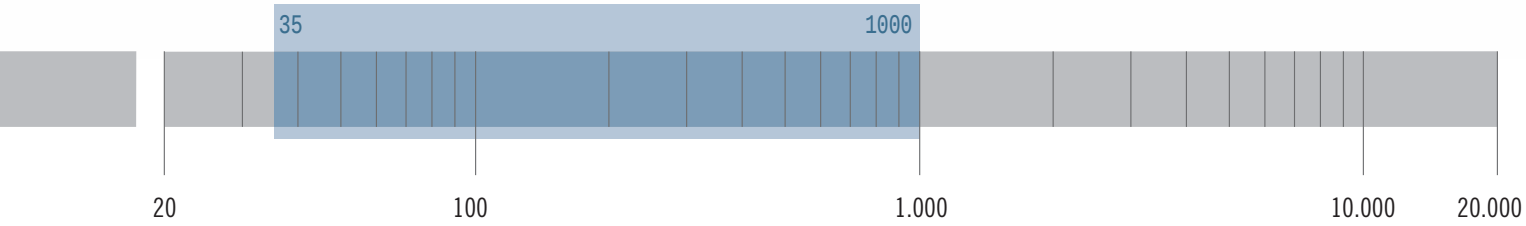
PART NUMBER **11185016**

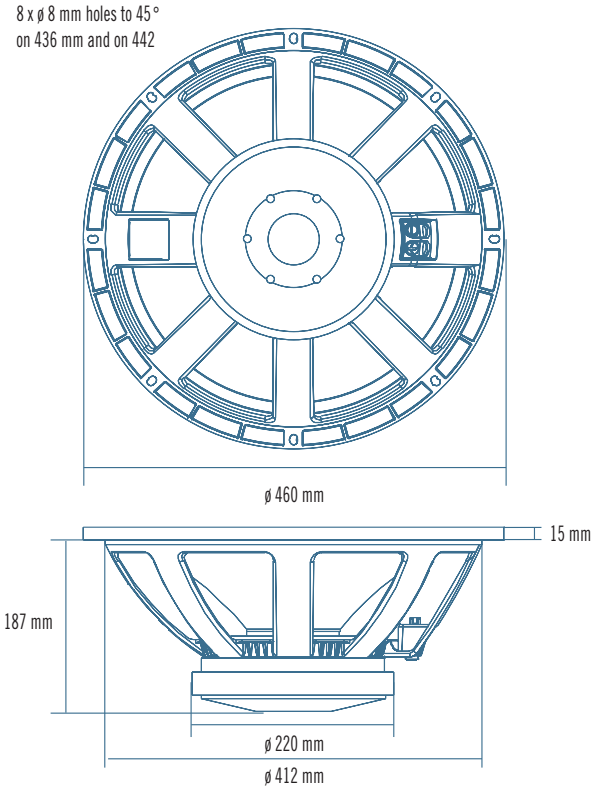
Features

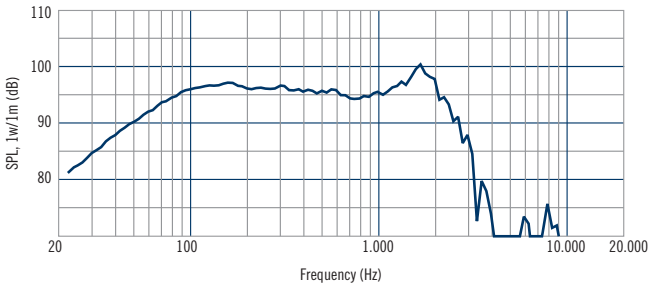
- 4-inch, fibreglass inside-outside copper voice coil
- 2000 Watt continuous program power handling
- 97 dB Sensitivity
- 35 Hz - 1 kHz Frequency range
- Forced air ventilation and 15 mm top plate for minimum power compression
- Dual spider design with silicon based dampening control
- M-roll surround and exponential cone geometry

Applications

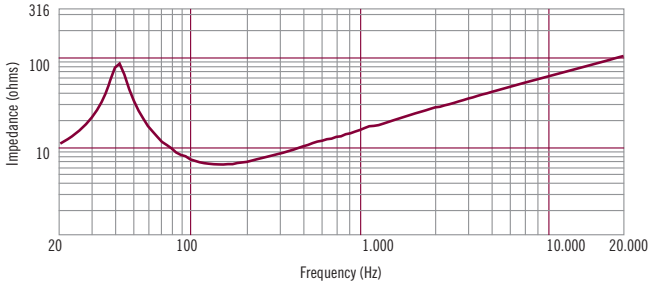
The L18P300 finds its best application in both bass reflex and band pass systems. Its capacity to reproduce extremely low frequencies along with extraordinary definition make it a no compromise woofer in its category, ideal for both live and recorded music.







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	460/18	mm/inch
Rated Impedance	8	ohm
Program Power [1]	2000	Watts
Power handling capacity [2]	1000	Watts
Sensitivity [3]	97	dB
Frequency Range	35 - 1000	Hz
Effective Piston Diameter	380/15	mm/inch
Max Excursion Before Damage (peak to peak)	40/1.6	mm/inch
Minimum Impedance	6.0	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	23/0.9	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	15/0.6	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	33	Hz
DC resistance	Re	5.0	ohm
Mechanical factor	Qms	8.3	
Electrical factor	Qes	0.34	
Total factor	Qts	0.33	
BL Factor	BL	23.5	T · m
Effective Moving Mass	Mms	180	gr
Equivalent Cas air load	Vas	226	liters
Effettive piston area	Sd	0.113	m^2
Max. linear excursion (mathematical) [5]	Xmax	7.8	mm
Voice - coil inductance @ 1KHz	Le1K	1.9	mH
Half-space efficiency	Eff	2.30	%

Mounting Information

Overall Diameter	470/18.5	mm/inch
Bolt Circle Diameter	438/17.2	mm/inch
Bolt Hole Diameter	8/0.3	mm/inch
Front Mount Baffle Cut-out	416/16.4	mm/inch
Rear Mount Baffle Cut-out	418/16.5	mm/inch
Depth	209/8.3	mm/inch
Volume occupied by the driver [6]	6.5/0.23	liters/ft3

Shipping Information

Net Weight	14/31.1	Kg/Lbs
Shipping Weight	14.8/32.9	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
L18S801

Professional Low Frequency Transducer

The L18S801 is the RCF classical high efficiency 18” woofer. A perfect blend of voice coil length, moving mass weight and suspensions control makes this transducer the preferred solution for many speakers and rental companies. Efficient heat dissipation is ensured by forcing air out through a special vented radiator system which is part of the gap, situated between the basket and the upper plate.
Voice coil construction, suspensions and cone materials are upgraded in order to withstand up to 700 Watt RMS power.

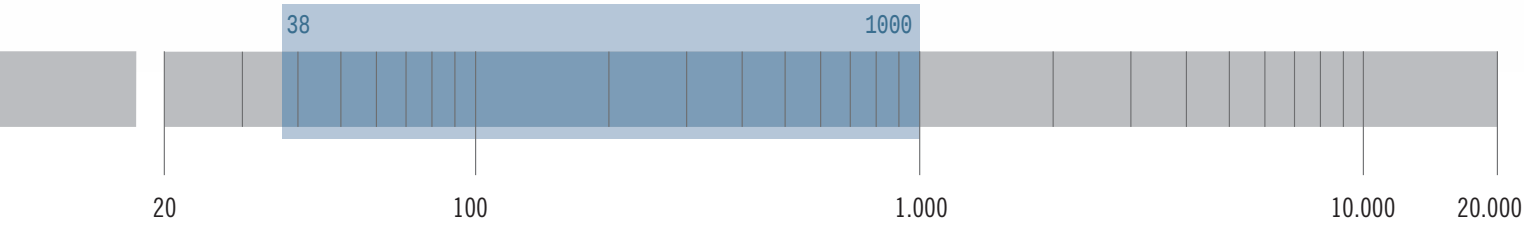
PART NUMBER **11100047**

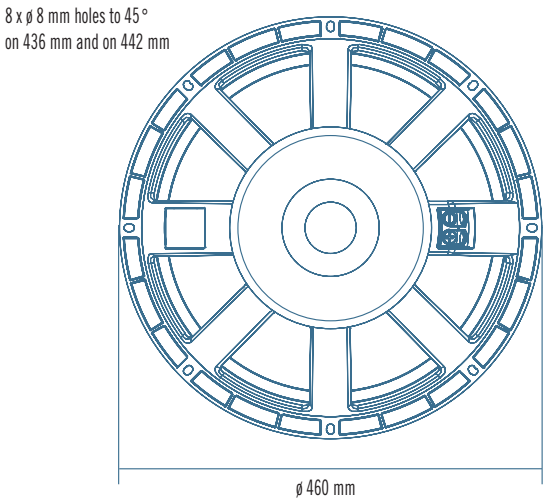
Features

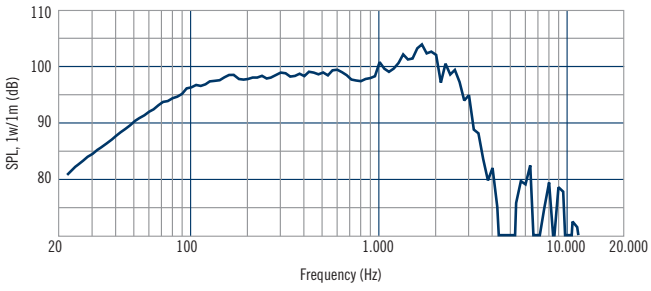
- 4-inch, fibreglass inside-outside copper voice coil
- 1400 Watt continuous program power handling
- 99.5 dB Sensitivity
- 38 Hz - 1 kHz Frequency range
- Forced air ventilation and front heat sink for minimum power compression
- Dual spider design with silicon based dampening control
- M-roll surround and exponential cone geometry

Applications

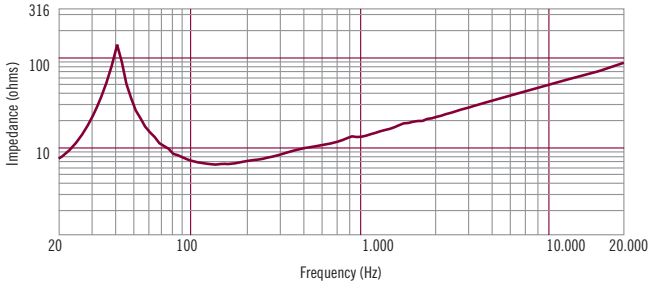
The L18S801 finds its best application in band pass, reflex-horn and horn loaded systems.
It is a perfect compact bass reflex solution for live music, when the maximum punch is required.
It is one of the fastest transducers in its category.







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	460/18	mm/inch
Rated Impedance	8	ohm
Program Power [1]	1400	Watts
Power handling capacity [2]	700	Watts
Sensitivity [3]	99.5	dB
Frequency Range	38 - 1000	Hz
Effective Piston Diameter	380/15	mm/inch
Max Excursion Before Damage (peak to peak)	40/1.6	mm/inch
Minimum Impedance	6.3	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	18.5/0.7	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	10/0.4	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	39	Hz
DC resistance	Re	4.9	ohm
Mechanical factor	Qms	8.3	
Electrical factor	Qes	0.30	
Total factor	Qts	0.29	
BL Factor	BL	24.5	T · m
Effective Moving Mass	Mms	148	gr
Equivalent Cas air load	Vas	206	liters
Effettive piston area	Sd	0.113	m^2
Max. linear excursion (mathematical) [5]	Xmax	6.8	mm
Voice - coil inductance @ 1KHz	Le1K	1.7	mH
Half-space efficiency	Eff	3.93	%

Mounting Information

Overall Diameter	470/18.5	mm/inch
Bolt Circle Diameter	438/17.2	mm/inch
Bolt Hole Diameter	8/0.3	mm/inch
Front Mount Baffle Cut-out	416/16.4	mm/inch
Rear Mount Baffle Cut-out	418/16.5	mm/inch
Depth	209/8.3	mm/inch
Volume occupied by the driver [6]	6.5/0.23	liters/ft3

Shipping Information

Net Weight	13.1/29.1	Kg/Lbs
Shipping Weight	13.8/30.7	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
L18P200-N

Professional Low Frequency Transducer

The L18P200 is the RCF classical extended low frequency 18” woofer. Generous voice coil length, heavier moving mass weight and very low resonance for perfect low frequency reproduction. Remarkable the linearity in the application range. Special treatments are applied to cone surface and surround for optimum dampening.

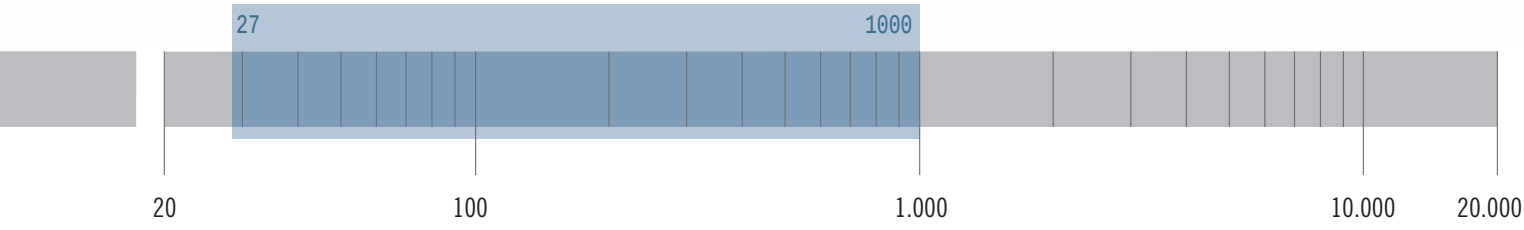
PART NUMBER **11185012**

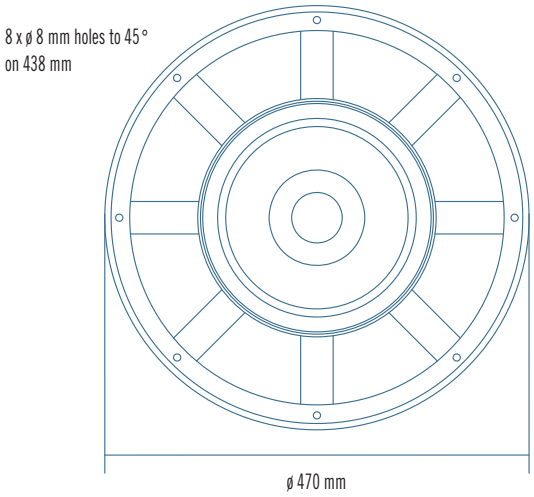
Features

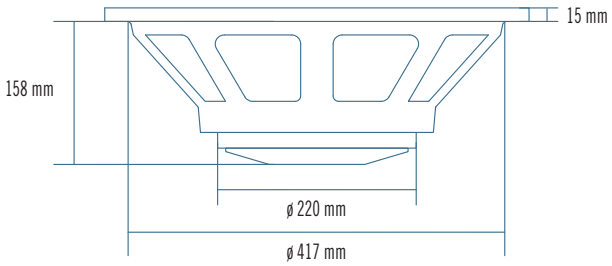
- 4-inch, fibreglass inside-outside copper voice coil
- 1600 Watt continuous program power handling
- 96 dB Sensitivity
- 27 Hz - 1 kHz Frequency range
- Triple roll damped surround
- Corrugated straight damped cone

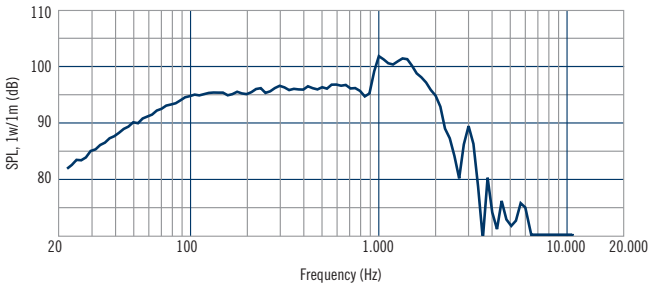
Applications

The L18P200N finds its best application in bass reflex enclosures. It is a perfect solution for recorded music, cinema subwoofers, very low frequency monitoring and applications where very low frequency linearity is required.

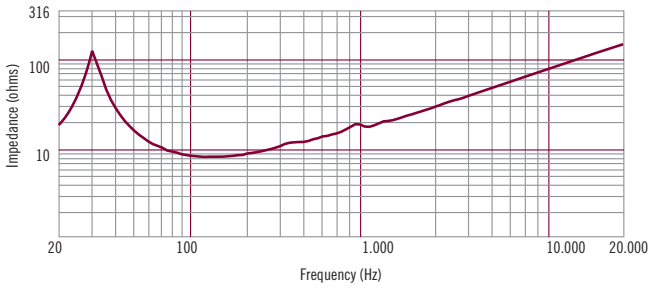








Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	460/18	mm/inch
Rated Impedance	8	ohm
Program Power [1]	1600	Watts
Power handling capacity [2]	800	Watts
Sensitivity [3]	96	dB
Frequency Range	27 - 1000	Hz
Effective Piston Diameter	380/15	mm/inch
Max Excursion Before Damage (peak to peak)	36/1.4	mm/inch
Minimum Impedance	7.5	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	24/0.9	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	9/0.35	mm/inch
Cone Material	No pressed pulp treat	
Cone Design	Straight	
Surround Material	Polycotton treat	
Surround Design	Triple roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	28	Hz
DC resistance	Re	6.3	ohm
Mechanical factor	Qms	7.1	
Electrical factor	Qes	0.32	
Total factor	Qts	0.31	
BL Factor	BL	23.1	T · m
Effective Moving Mass	Mms	155	gr
Equivalent Cas air load	Vas	380	liters
Effettive piston area	Sd	0.113	m^2
Max. linear excursion (mathematical) [5]	Xmax	9.8	mm
Voice - coil inductance @ 1KHz	Le1K	2.2	mH
Half-space efficiency	Eff	2.51	%

Mounting Information

Overall Diameter	470/18.5	mm/inch
Bolt Circle Diameter	438/17.2	mm/inch
Bolt Hole Diameter	8/0.3	mm/inch
Front Mount Baffle Cut-out	416/16.4	mm/inch
Rear Mount Baffle Cut-out	418/16.5	mm/inch
Depth	180/7.1	mm/inch
Volume occupied by the driver [6]	6.2/0.22	liters/ft3

Shipping Information

Net Weight	13.1/29.1	Kg/Lbs
Shipping Weight	13.8/30.7	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
L15P400

Professional Low Frequency Transducer

PART NUMBER **11100045**

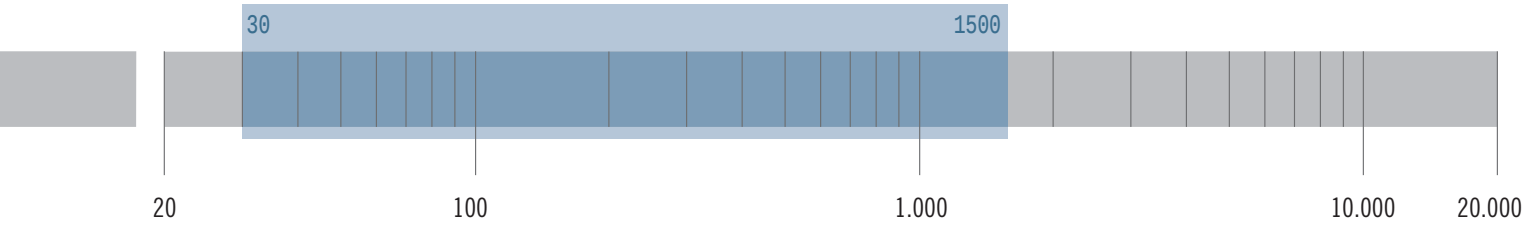
Incredibly linear frequency response characteristics, extreme high power handling while generating the lowest harmonic distortion of any comparable 15-inch transducer within its application range. The L15P400 uses a fibre loaded cone assembly along with a high excursion triple roll surround. This combination provides remarkable strength and a peak to peak maximum excursion of 52 mm. The T-pole also features RCF Precision's spaced gap demodulation technology, progressively braking the voice coil, providing a much smoother transition for the moving mass as it reaches its maximum excursion limits. Forced air venting system.

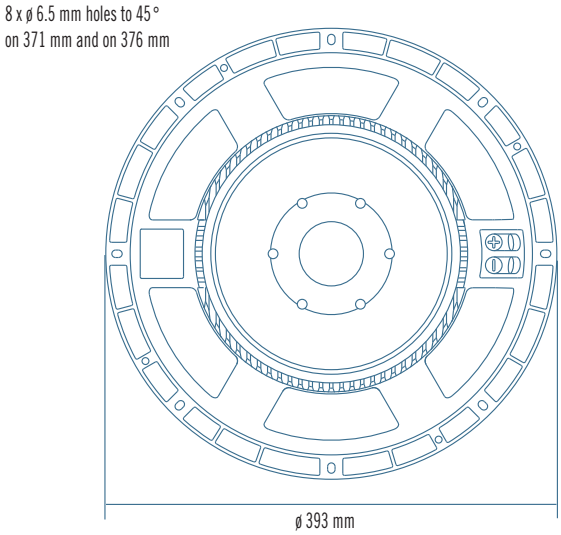
Features

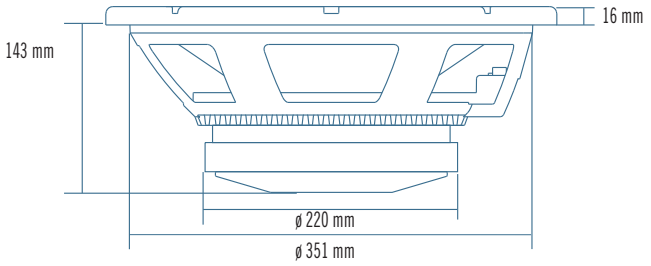
- 4-inch, fibreglass inside-outside copper voice coil
- 1600 Watt continuous program power handling
- 97 dB Sensitivity
- 30 Hz - 1.5 kHz Frequency range
- Aluminum demodulation ring
- Forced air ventilation and 14 mm top plate for minimum power compression
- Dual spider design with silicon based dampening control
- Triple-roll surround and corrugated straight cone geometry

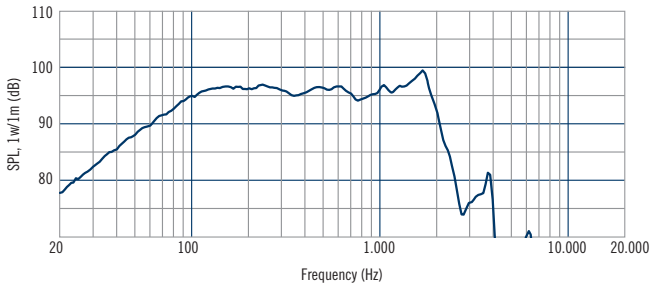
Applications

The L15P400 is ideal for use in applications whereincredible power handling, long excursion and perfect control is required. Ideal for high quality professional bass reflex and bass-horn systems, incredible when used in double 15" subwoofer configuration.
The transducer's low frequency extension, coupled with its extremely low generation of harmonic distortion, also makes it ideal for use within critical listening applications such as studio monitoring subwoofer systems.

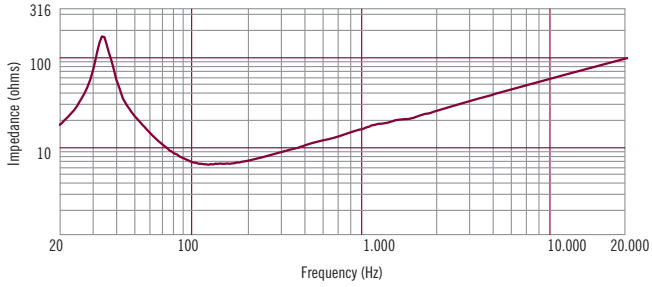








Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power [1]	1600	Watts
Power handling capacity [2]	800	Watts
Sensitivity [3]	97	dB
Frequency Range	30 - 1500	Hz
Effective Piston Diameter	340/13.4	mm/inch
Max Excursion Before Damage (peak to peak)	50/2.0	mm/inch
Minimum Impedance	6.3	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	23/0.9	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	14/0.55	mm/inch
Cone Material	No pressed pulp	
Cone Design	Straight	
Surround Material	Polycotton	
Surround Design	Triple roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	36	Hz
DC resistance	Re	4.8	ohm
Mechanical factor	Qms	7.5	
Electrical factor	Qes	0.27	
Total factor	Qts	0.25	
BL Factor	BL	24.8	T · m
Effective Moving Mass	Mms	150	gr
Equivalent Cas air load	Vas	160	liters
Effettive piston area	Sd	0.091	m^2
Max. linear excursion (mathematical) [5]	Xmax	8.0	mm
Voice - coil inductance @ 1KHz	Le1K	2.2	mH
Half-space efficiency	Eff	2.6	%

Mounting Information

Overall Diameter	393/15.5	mm/inch
Bolt Circle Diameter	371-376/14.6-14.8	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	352/13.9	mm/inch
Rear Mount Baffle Cut-out	360/14.2	mm/inch
Depth	158/6.2	mm/inch
Volume occupied by the driver [6]	4.3/0.15	liters/ft3

Shipping Information

Net Weight	12.6/27.7	Kg/Lbs
Shipping Weight	13.6/29.9	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
LF15G401

Professional Low Frequency Transducer

The LF15G401 is a 15-inch woofer with linear frequency response characteristics and very high power handling. The LF15G401 uses a fibre loaded cone assembly along with a high excursion triple roll, constant geometry surround. This combination provides remarkable strength and a peak to peak maximum excursion of 52 mm.

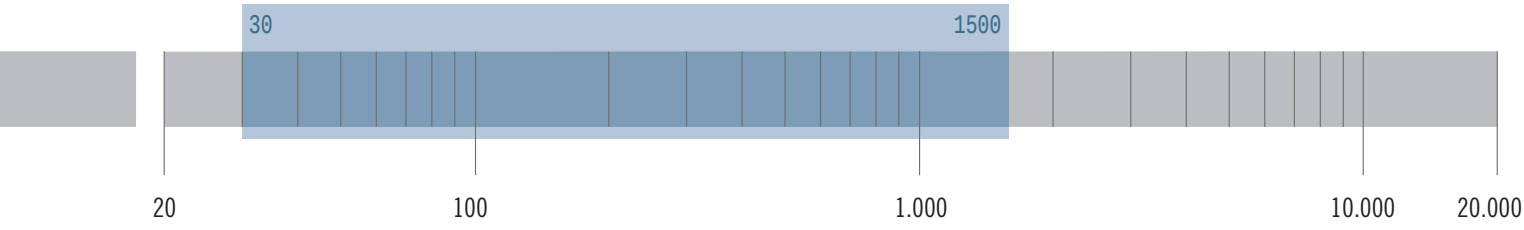
PART NUMBER **11100014**

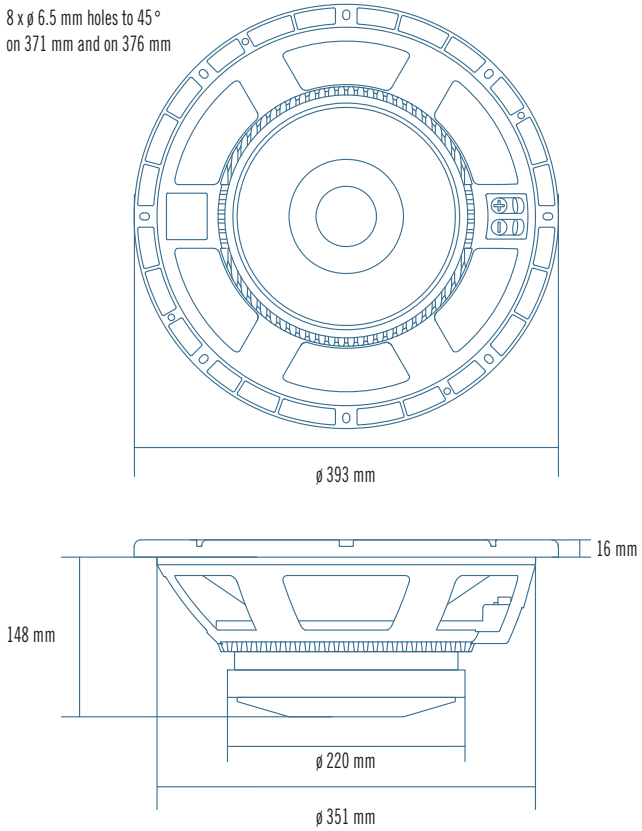
Features

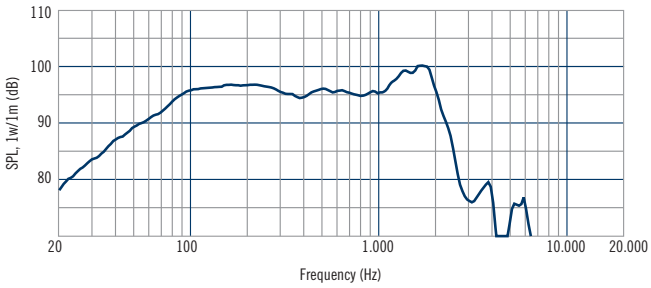
- 4-inch, fibreglass inside-outside copper voice coil
- 1600 Watt continuous program power handling
- 97 dB Sensitivity
- 30 Hz - 1.5 kHz Frequency range
- Dual spider design with silicon based dampening control
- Triple-roll surround and corrugated straight cone geometry

Applications

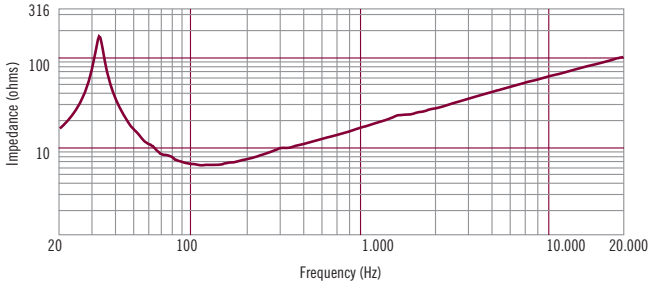
The LF15G401 is ideal for use in applications where incredible power handling, long excursion and perfect control is required. Ideal for high quality professional bass reflex and bass-horn systems. The robust mechanical design and optimised weight of the device make it desirable for use in fixed installation or portable professional loudspeaker systems. Very good for 3 way, extended low frequency configurations.







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power [1]	1600	Watts
Power handling capacity [2]	800	Watts
Sensitivity [3]	97	dB
Frequency Range	35 - 1500	Hz
Effective Piston Diameter	340/13.4	mm/inch
Max Excursion Before Damage (peak to peak)	52/2.1	mm/inch
Minimum Impedance	6.1	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	23/0.9	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	12/0.5	mm/inch
Cone Material	No pressed pulp	
Cone Design	Straight	
Surround Material	Polycotton	
Surround Design	Triple roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	36	Hz
DC resistance	Re	4.8	ohm
Mechanical factor	Qms	6.2	
Electrical factor	Qes	0.27	
Total factor	Qts	0.26	
BL Factor	BL	24.6	T · m
Effective Moving Mass	Mms	150	gr
Equivalent Cas air load	Vas	150	liters
Effettive piston area	Sd	0.091	m^2
Max. linear excursion (mathematical) [5]	Xmax	8.5	mm
Voice - coil inductance @ 1KHz	Le1K	2.5	mH
Half-space efficiency	Eff	2.50	%

Mounting Information

Overall Diameter	393/15.5	mm/inch
Bolt Circle Diameter	371-376/14.6-14.8	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	352/13.9	mm/inch
Rear Mount Baffle Cut-out	360/14.2	mm/inch
Depth	158/6.2	mm/inch
Volume occupied by the driver [6]	4.3/0.15	liters/ft3

Shipping Information

Net Weight	12.2/26.8	Kg/Lbs
Shipping Weight	12.8/28.4	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
L15S801

Professional Low Frequency Transducer

The L15S801 is the RCF classical high efficiency 15” woofer. A perfect blend of voice coil length, moving mass weight and suspensions control makes this transducer the preferred solution for many speakers and rental companies. Efficient heat dissipation is ensured by forcing hair out through a special vented radiator system which is part of the gap, situated between the basket and the upper plate.

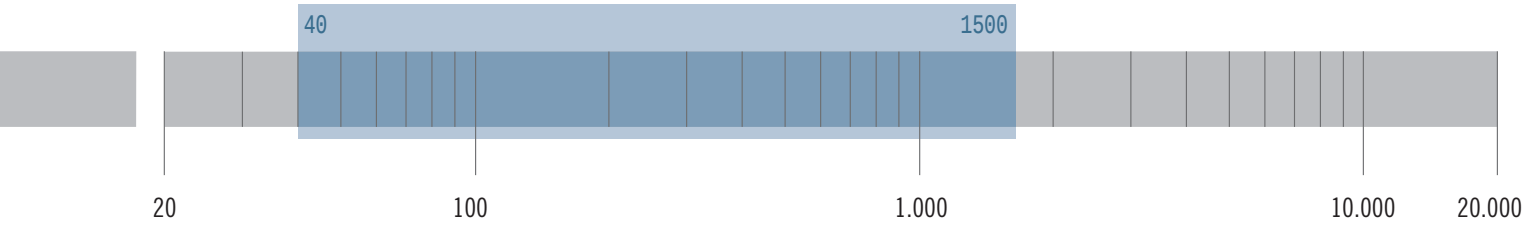
PART NUMBER **11100048**

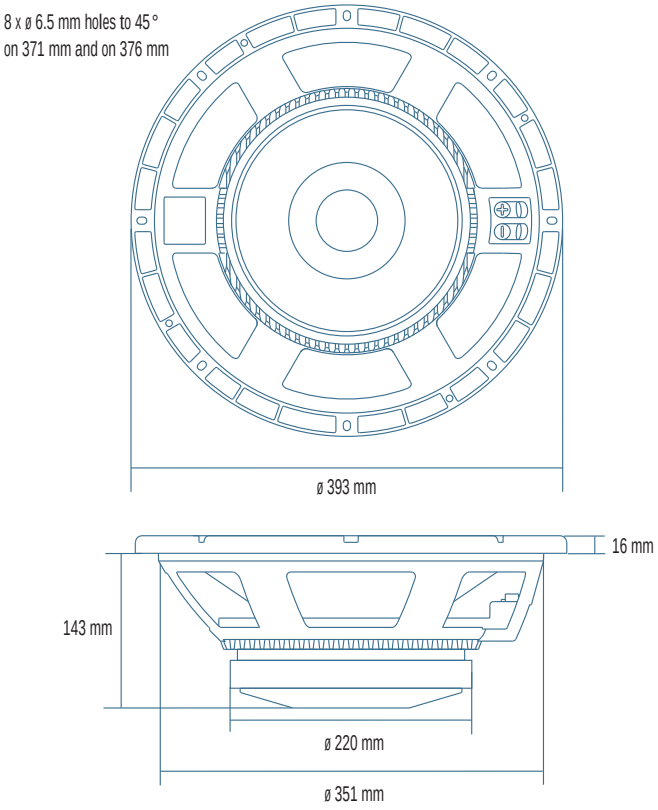
Features

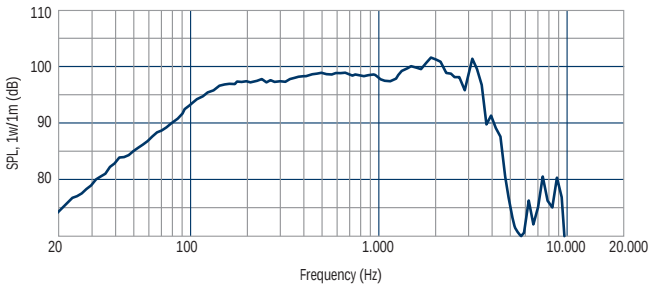
- 4-inch, fibreglass inside-outside copper voice coil
- 1400 Watt continuous program power handling
- 99.5 dB Sensitivity
- 40 Hz - 1.5 kHz Frequency range
- Forced air ventilation and front heat sink for minimum power compression
- Dual spider design with silicon based dampening control
- M-roll surround and exponential cone geometry

Applications

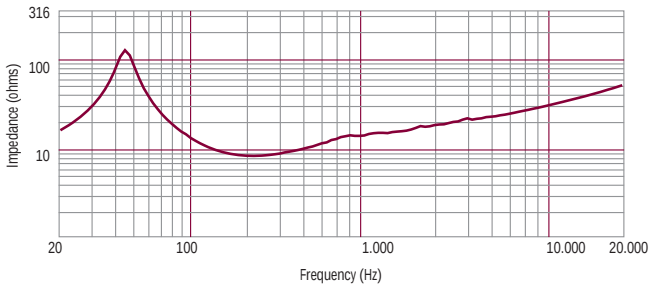
The L15S801 finds its best application in band pass, reflex-horn and horn loaded systems.
It is a perfect compact bass reflex solution for live music, when the maximum punch is required.
It is one of the fastest transducers in its category.







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power [1]	1400	Watts
Power handling capacity [2]	700	Watts
Sensitivity [3]	99.5	dB
Frequency Range	40 - 1500	Hz
Effective Piston Diameter	330/13	mm/inch
Max Excursion Before Damage (peak to peak)	48/1.9	mm/inch
Minimum Impedance	8.0	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	16/0.6	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	10/0.4	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	48	Hz
DC resistance	Re	6.1	ohm
Mechanical factor	Qms	11	
Electrical factor	Qes	0.33	
Total factor	Qts	0.32	
BL Factor	BL	23.6	T · m
Effective Moving Mass	Mms	100	gr
Equivalent Cas air load	Vas	113	liters
Effettive piston area	Sd	0.085	m^2
Max. linear excursion (mathematical) [5]	Xmax	5.5	mm
Voice - coil inductance @ 1KHz	Le1K	1.7	mH
Half-space efficiency	Eff	3.65	%

Mounting Information

Overall Diameter	387/15.2	mm/inch
Bolt Circle Diameter	371/14.6	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	352/13.9	mm/inch
Rear Mount Baffle Cut-out	360/14.1	mm/inch
Depth	158/6.2	mm/inch
Volume occupied by the driver [6]	3.8/0.13	liters/ft3

Shipping Information

Net Weight	12/26.4	Kg/Lbs
Shipping Weight	12.5/27.5	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
L15P200AK

Professional Low Frequency Transducer

The L15P200AK is the RCF classical extended low frequency 15” woofer. Generous voice coil length, heavier moving mass weight and very low resonance frequency for perfect low frequency reproduction. Remarkable the linearity in the application range.
Special treatments are applied to cone surface and surround for optimum dampening.

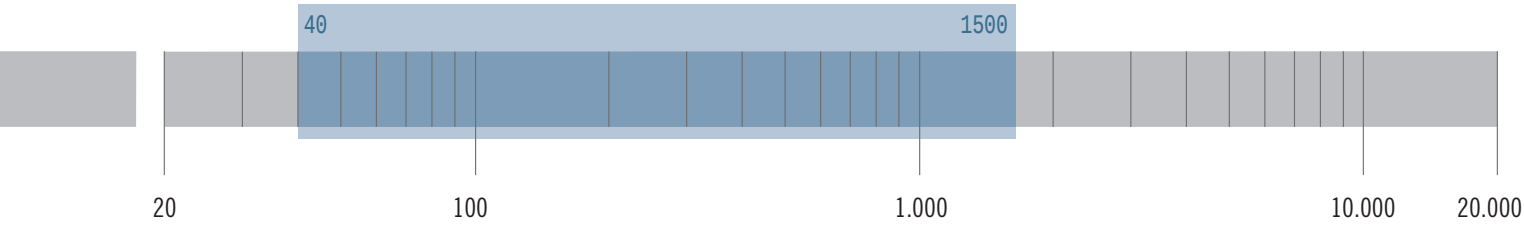
PART NUMBER **11165014**

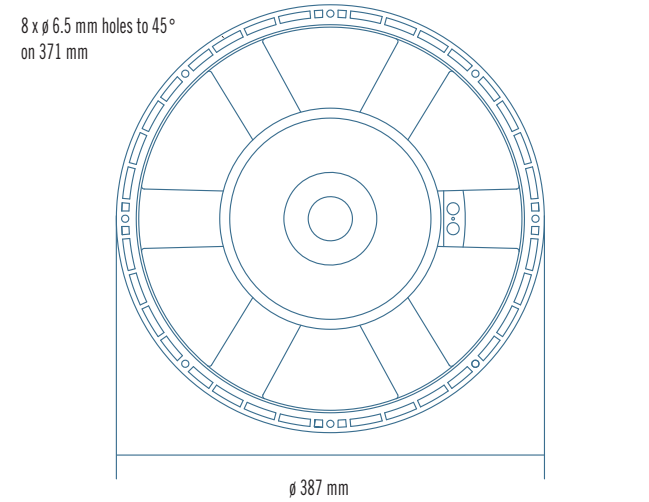
Features

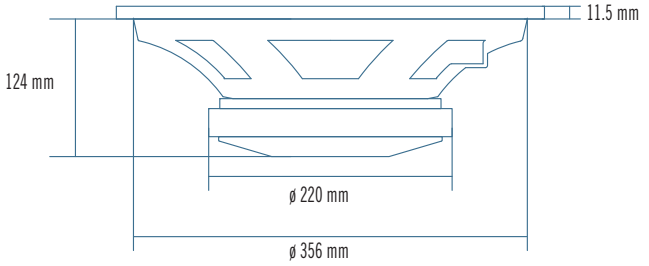
- 4-inch, fibreglass inside-outside copper voice coil
- 1600 Watt continuous program power handling
- 95 dB Sensitivity
- 35 Hz - 1 kHz Application range
- Triple roll damped surround
- Corrugated straight damped cone

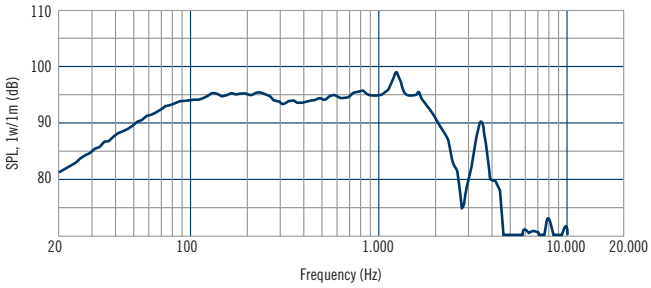
Applications

The L15P200AK finds its best application in bass reflex enclosures. It is a perfect solution for recorded music, cinema speakers, very low frequency monitoring and applications where low frequency linearity is required. In 2 way systems shall be used in conjunction to large format compression driver, very good for linear 3 way system.

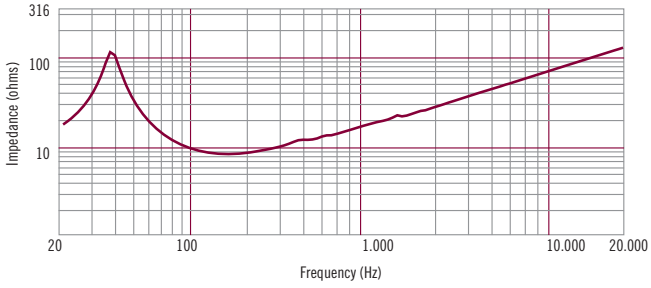








Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power [1]	1600	Watts
Power handling capacity [2]	800	Watts
Sensitivity [3]	95	dB
Frequency Range	35 - 1000	Hz
Effective Piston Diameter	325/12.8	mm/inch
Max Excursion Before Damage (peak to peak)	36/1.4	mm/inch
Minimum Impedance	7.9	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	24/0.9	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	9/0.35	mm/inch
Cone Material	No pressed pulp	
Cone Design	Straight	
Surround Material	Polycotton treat	
Surround Design	Triple roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	38	Hz
DC resistance	Re	5.9	ohm
Mechanical factor	Qms	6.8	
Electrical factor	Qes	0.38	
Total factor	Qts	0.35	
BL Factor	BL	21.2	T · m
Effective Moving Mass	Mms	121	gr
Equivalent Cas air load	Vas	139	liters
Effettive piston area	Sd	0.083	m^2
Max. linear excursion (mathematical) [5]	Xmax	9.8	mm
Voice - coil inductance @ 1KHz	Le1K	2.2	mH
Half-space efficiency	Eff	1.93	%

Mounting Information

Overall Diameter	387/15.2	mm/inch
Bolt Circle Diameter	371/14.6	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	358/14.1	mm/inch
Rear Mount Baffle Cut-out	362/14.2	mm/inch
Depth	138/5.4	mm/inch
Volume occupied by the driver [6]	3.4/0.12	liters/ft3

Shipping Information

Net Weight	11.7/25.7	Kg/Lbs
Shipping Weight	12.2/26.8	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

MID-BASS
MB15H401

Professional Low Frequency Transducer

The MB15H401 is a 15-inch midbass with linear frequency response characteristics and very high efficiency. The MB15H401 uses a fibre loaded exponential cone assembly along with a high excursion triple roll, constant geometry surround. The fibreglass former, inside/outside aluminum voice coil provides a very good power handling maintaining light moving mass and proper Q for bass alignment. Demodulation ring for fastest time response and lowest distortion.

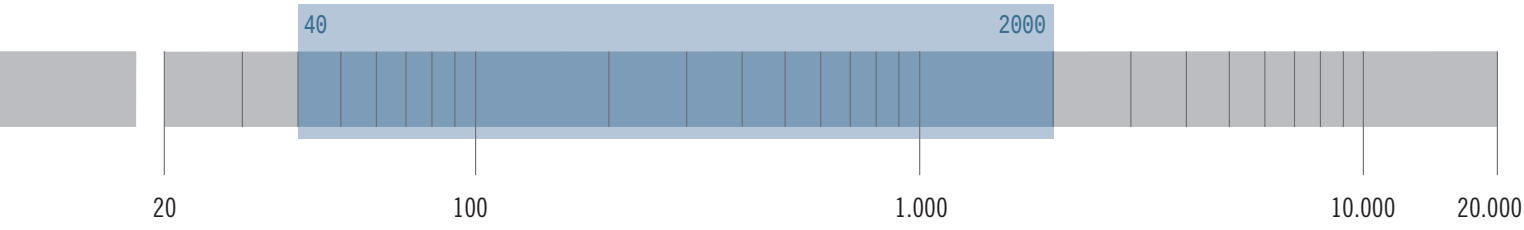
PART NUMBER **11100015**

Features

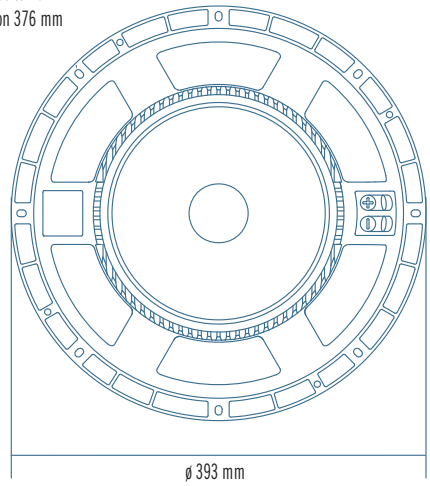
- 4-inch, fibreglass inside-outside aluminum voice coil
- 1400 Watt continuous program power handling
- 100 dB Sensitivity
- 40 Hz - 2 kHz Frequency range
- Dual spider design with silicon based dampening control
- Triple-roll surround and corrugated exponential cone geometry
- Aluminum demodulation ring

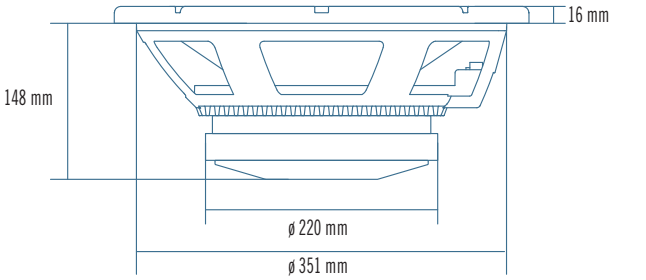
Applications

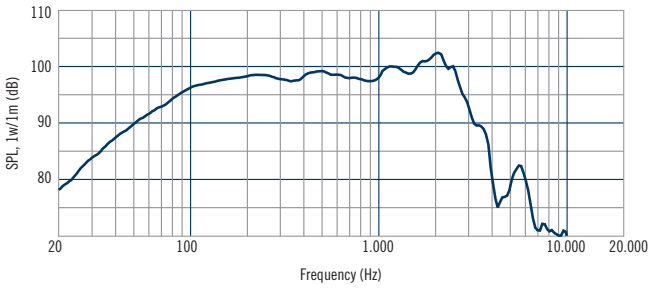
The MB15H401 is ideal for use in applications where is required good power handling, very high efficiency and perfect linearity. Is the ideal 15” woofer for mid-bass application in high power, compact 2 way systems. Thanks to his linearity, very easy to crossover compared to competitors 4” voice coil 15”. The robust mechanical design and optimised weight of the device make it desirable for use in fixed installation or portable professional loudspeaker systems.



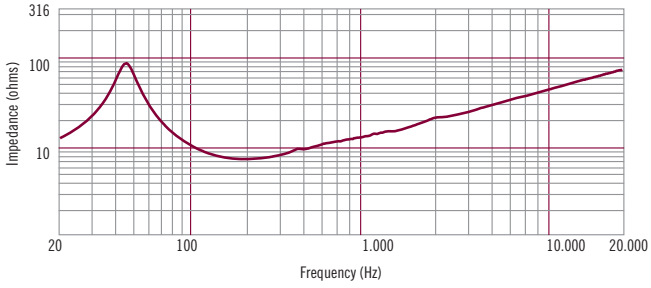
8 x ø 6.5 mm holes to 45°
on 371 mm and on 376 mm







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power [1]	1400	Watts
Power handling capacity [2]	700	Watts
Sensitivity [3]	100	dB
Frequency Range	40 - 2000	Hz
Effective Piston Diameter	340/13.4	mm/inch
Max Excursion Before Damage (peak to peak)	50/2.0	mm/inch
Minimum Impedance	7.0	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	aluminum	
Voice Coil Winding Depth	21/0.8	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	12/0.5	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	Triple roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	44	Hz
DC resistance	Re	5.4	ohm
Mechanical factor	Qms	4.8	
Electrical factor	Qes	0.32	
Total factor	Qts	0.30	
BL Factor	BL	22.1	T · m
Effective Moving Mass	Mms	107	gr
Equivalent Cas air load	Vas	121	liters
Effettive piston area	Sd	0.091	m^2
Max. linear excursion (mathematical) [5]	Xmax	7.5	mm
Voice - coil inductance @ 1KHz	Le1K	1.9	mH
Half-space efficiency	Eff	3.11	%

Mounting Information

Overall Diameter	393/15.5	mm/inch
Bolt Circle Diameter	371-376/14.6-14.8	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	352/13.9	mm/inch
Rear Mount Baffle Cut-out	360/14.2	mm/inch
Depth	158/6.2	mm/inch
Volume occupied by the driver [6]	4.3/0.15	liters/ft3

Shipping Information

Net Weight	12.2/26.8	Kg/Lbs
Shipping Weight	12.8/28.4	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 200-2 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

MID-BASS
L15/554K

Professional Low Frequency Transducer

Very high efficiency and good linearity are distinctive features of this mid-bass woofer.
Kapton former voice coil, polycotton suspensions and treated cone guarantee the very high power handling of this transducer.

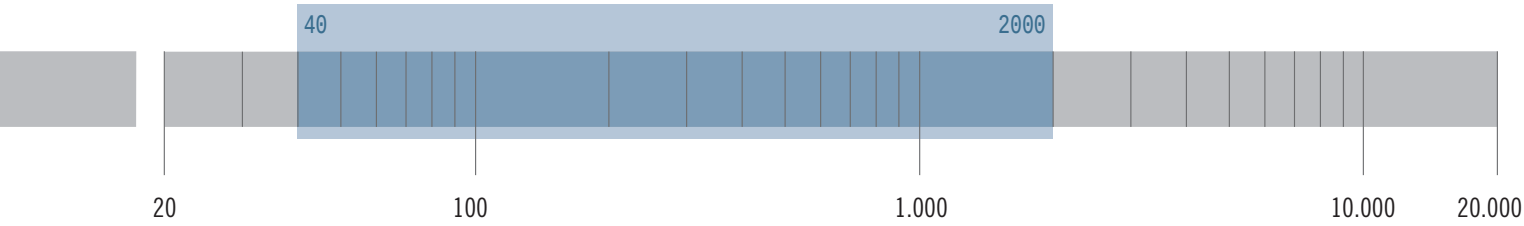
PART NUMBER **11160011**

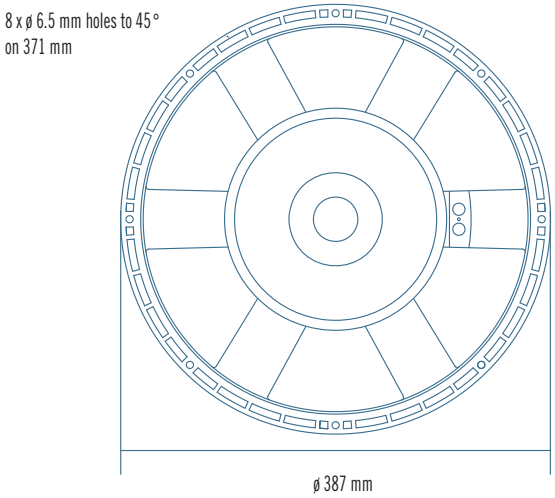
Features

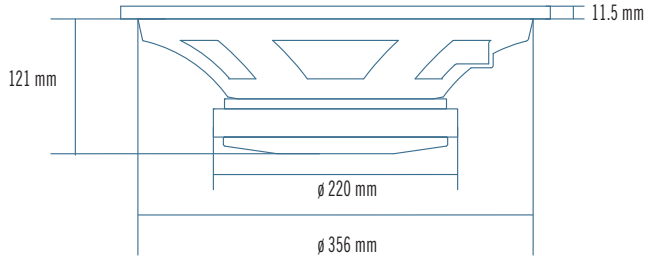
- 4-inch, fibreglass inside-outside copper voice coil
- 1200 Watt continuous program power handling
- 99 dB Sensitivity
- 40 Hz - 2 kHz Frequency range
- M-roll damped surround
- Exponential damped cone
- Copper ring

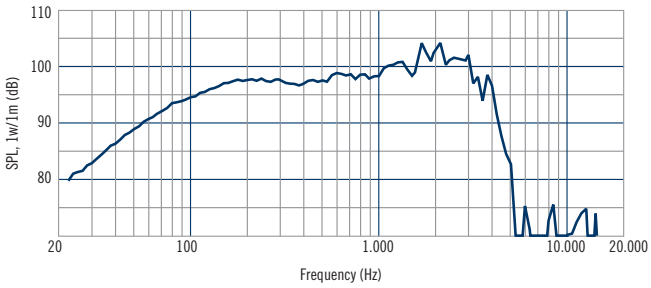
Applications

The L15/554 is designed to be mounted in compact size bass reflex enclosures. The good combination of voice coil length, very low mass weight and suspensions control makes the L15/554 a very good choice for high power 2 way systems. Thanks to a very high BL/Re ratio, small mechanical depth and a strong cone, the L15/554 is a good solution for horn loaded or hybrid horn loaded systems.

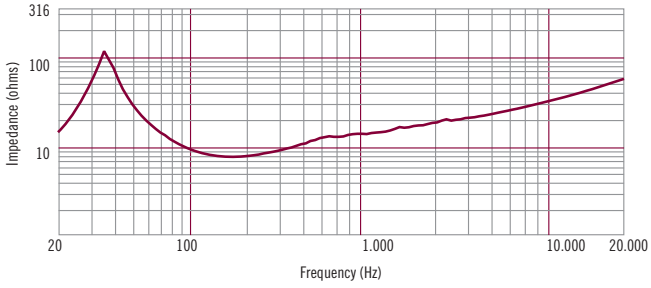








Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power [1]	1200	Watts
Power handling capacity [2]	600	Watts
Sensitivity [3]	99	dB
Frequency Range	40 - 2000	Hz
Effective Piston Diameter	325/12.8	mm/inch
Max Excursion Before Damage (peak to peak)	44/1.73	mm/inch
Minimum Impedance	7.9	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	16/0.6	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	9/0.35	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	35	Hz
DC resistance	Re	6.6	ohm
Mechanical factor	Qms	8.6	
Electrical factor	Qes	0.25	
Total factor	Qts	0.24	
BL Factor	BL	23	T · m
Effective Moving Mass	Mms	91	gr
Equivalent Cas air load	Vas	227	liters
Effettive piston area	Sd	0.083	m^2
Max. linear excursion (mathematical) [5]	Xmax	5.8	mm
Voice - coil inductance @ 1KHz	Le1K	1.7	mH
Half-space efficiency	Eff	3.75	%

Mounting Information

Overall Diameter	387/15.2	mm/inch
Bolt Circle Diameter	371/14.6	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	358/14.1	mm/inch
Rear Mount Baffle Cut-out	362/14.2	mm/inch
Depth	138/5.4	mm/inch
Volume occupied by the driver [6]	3.8/0.13	liters/ft3

Shipping Information

Net Weight	11.3/24.9	Kg/Lbs
Shipping Weight	11.8/26.0	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 200-2 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
L15P540

Professional Low Frequency Transducer

High power 15” woofer. Very good power handling, excellent linearity and very low distortion.
Very efficient heat dissipation is ensured by a radiator that is part of the basket design. The air is forced in the radiator thanks to a dual sealed spider design.

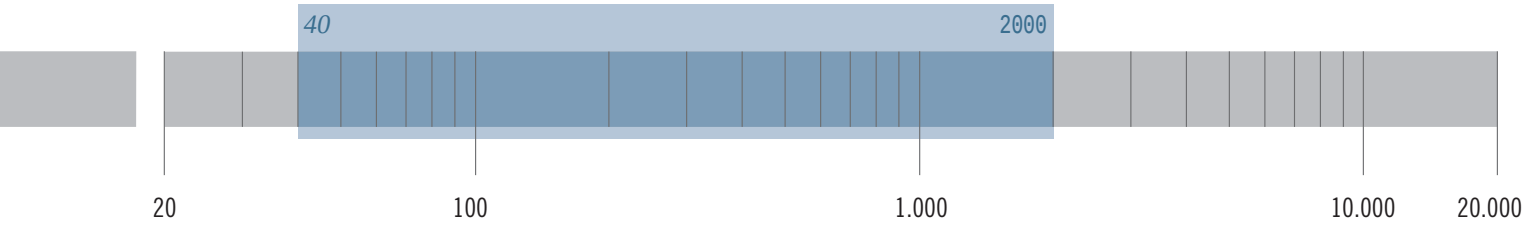
PART NUMBER **11165015**

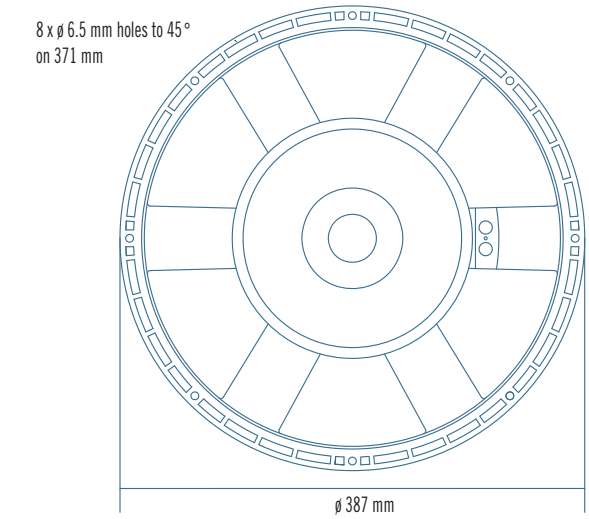
Features

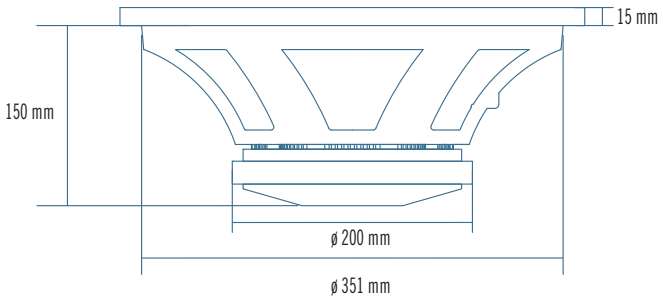
- 3-inch, fibreglass inside-outside copper voice coil
- 1000 Watt continuous program power handling
- 98 dB Sensitivity
- 40 Hz - 2 kHz Frequency range
- Dual spider design with silicon based dampening control
- M-roll surround and exponential cone geometry

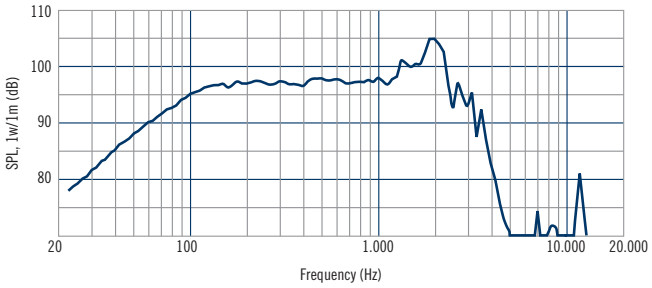
Applications

The excellent linear response, well controlled down to 40 Hertz, makes the L15P540 especially suitable for horn-loaded applications, band-pass enclosures and small size bass reflex systems.
It is a very good solution for two or three way system when a very high BL and maximum punch is required.

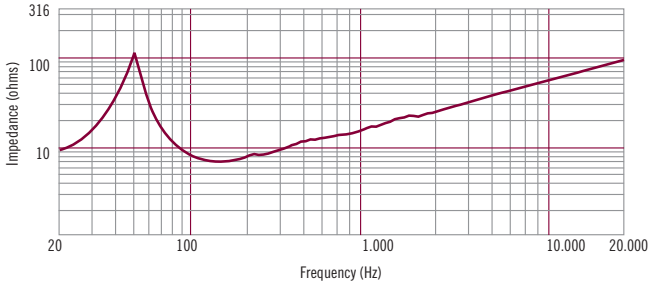








Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power [1]	1000	Watts
Power handling capacity [2]	500	Watts
Sensitivity [3]	98	dB
Frequency Range	40 - 2000	Hz
Effective Piston Diameter	330/13	mm/inch
Max Excursion Before Damage (peak to peak)	36/1.4	mm/inch
Minimum Impedance	6.8	ohm
Voice Coil Diameter	76/3	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	18/0.7	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	10/0.4	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	50	Hz
DC resistance	Re	5.6	ohm
Mechanical factor	Qms	9.7	
Electrical factor	Qes	0.41	
Total factor	Qts	0.39	
BL Factor	BL	21.4	T · m
Effective Moving Mass	Mms	106	gr
Equivalent Cas air load	Vas	100	liters
Effettive piston area	Sd	0.085	m^2
Max. linear excursion (mathematical) [5]	Xmax	6.5	mm
Voice - coil inductance @ 1KHz	Le1K	1.5	mH
Half-space efficiency	Eff	2.94	%

Mounting Information

Overall Diameter	387/15.2	mm/inch
Bolt Circle Diameter	371/14.6	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	352/13.9	mm/inch
Rear Mount Baffle Cut-out	360/14.1	mm/inch
Depth	163/6.4	mm/inch
Volume occupied by the driver [6]	3.8/0.13	liters/ft3

Shipping Information

Net Weight	9.5/20.9	Kg/Lbs
Shipping Weight	10/22.0	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 200-2 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

MID-BASS
L15P530

Professional Low Frequency Transducer

High power 15” mid-bass. Very high sensitivity, excellent linearity and very low distortion.
Very efficient heat dissipation is ensured by a radiator that is part of the basket design. The air is forced in the radiator thanks to a sealed spider design.

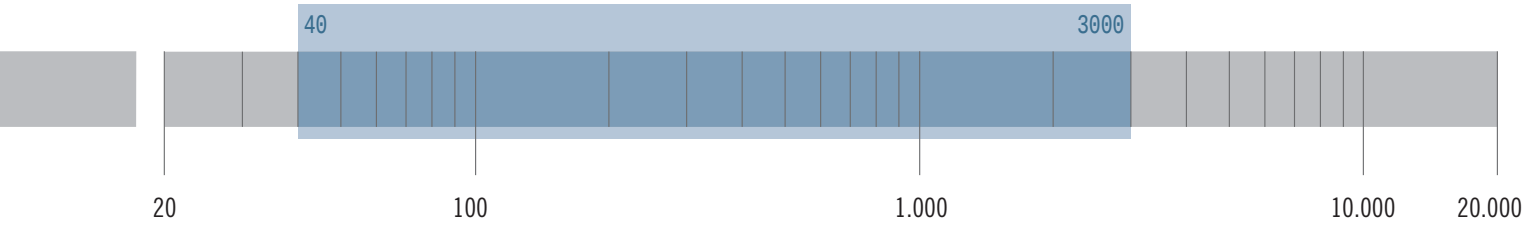
PART NUMBER **11165017**

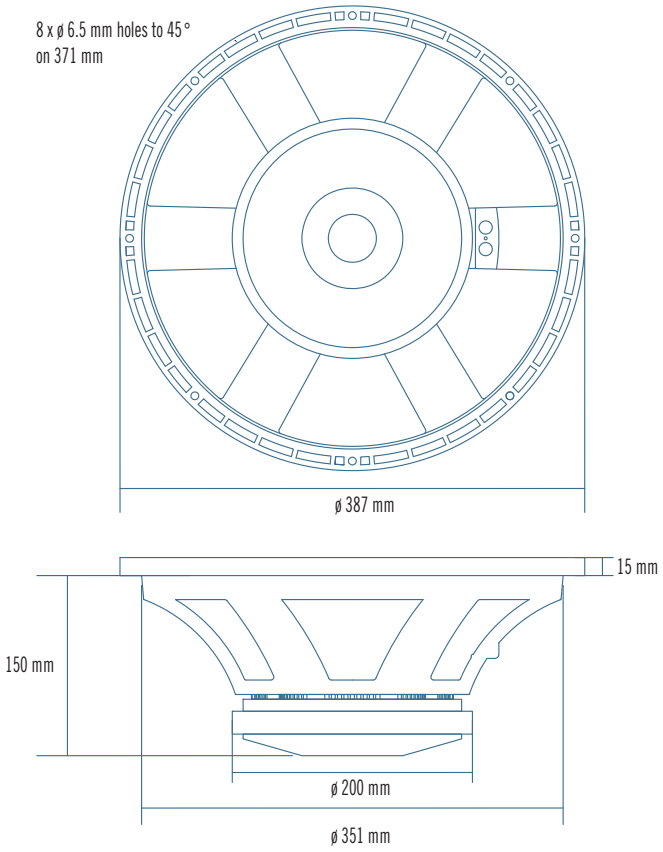
Features

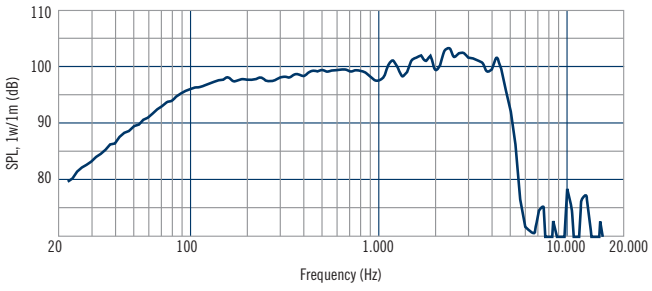
- 3-inch edgewound aluminum voice coil
- 700 Watt continuous program power handling
- 100 dB Sensitivity
- 40 Hz - 3 kHz Frequency range
- Spider dampening treatment
- M-roll surround and exponential cone geometry

Applications

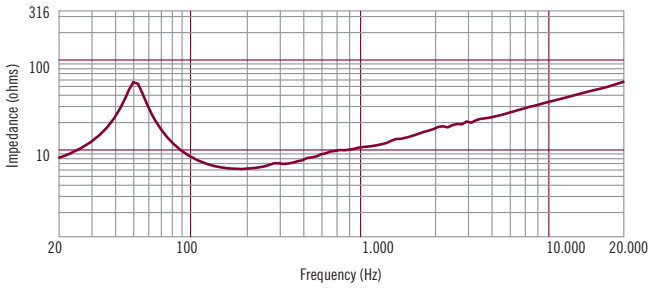
A very light moving mass, a curve response linear above 3 kHz makes the L15P530 a very good solution for high quality two or three way systems.
The aluminum voice coil guarantee a very high efficiency in conjunction to a proper Q factor for a good bass response.







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power [1]	700	Watts
Power handling capacity [2]	350	Watts
Sensitivity [3]	100	dB
Frequency Range	40 - 3000	Hz
Effective Piston Diameter	330/13	mm/inch
Max Excursion Before Damage (peak to peak)	36/1.4	mm/inch
Minimum Impedance	5.9	ohm
Voice Coil Diameter	76/3	mm/inch
Voice Coil Material	aluminum	
Voice Coil Winding Depth	18/0.7	mm/inch
Number of layers	1	
Kind of layer	outside	
Top Plate Thickness	10/0.4	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	45	Hz
DC resistance	Re	5.1	ohm
Mechanical factor	Qms	7.5	
Electrical factor	Qes	0.51	
Total factor	Qts	0.48	
BL Factor	BL	15.3	T · m
Effective Moving Mass	Mms	83	gr
Equivalent Cas air load	Vas	160	liters
Effettive piston area	Sd	0.085	m^2
Max. linear excursion (mathematical) [5]	Xmax	6.5	mm
Voice - coil inductance @ 1KHz	Le1K	1.45	mH
Half-space efficiency	Eff	2.76	%

Mounting Information

Overall Diameter	387/15.2	mm/inch
Bolt Circle Diameter	371/14.6	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	352/13.9	mm/inch
Rear Mount Baffle Cut-out	360/14.1	mm/inch
Depth	163/6.4	mm/inch
Volume occupied by the driver [6]	3.8/0.13	liters/ft3

Shipping Information

Net Weight	9.5/20.9	Kg/Lbs
Shipping Weight	10/22.0	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 200-2 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

MID-BASS
L12L750

Professional Low Frequency Transducer

PART NUMBER **11140037**

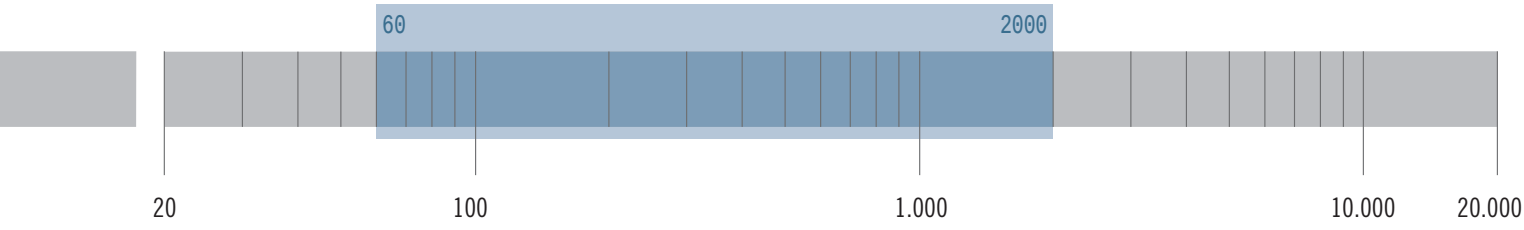
Very high efficiency and extended linearity are special features of this mid-bass transducer. Very efficient heat dissipation is ensured by a radiator that is part of the basket design. The aluminum voice coil offer a properly aligned Q factor and a very high sensitivity. A specially designed Shallow Triple-roll surround guarantee a very low midrange distortion.
Fibreglass former voice coil, polycotton suspensions and treated cone provide the very high power handling.

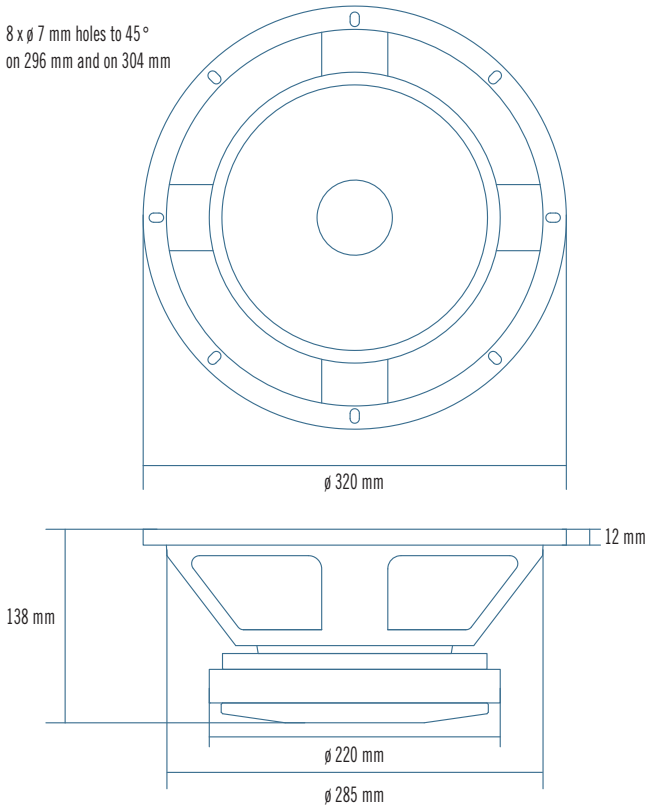
Features

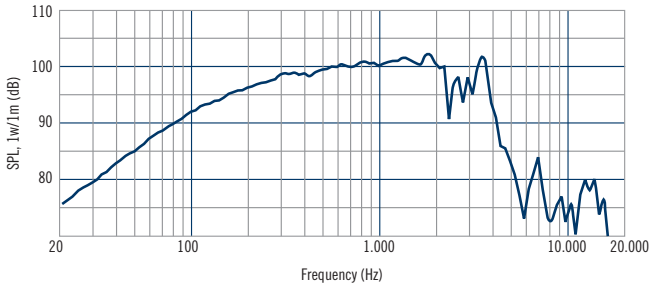
- 4-inch, fibreglass former, edgewound aluminum voice coil
- 700 Watt continuous program power handling
- 101 dB Sensitivity
- 60 Hz - 2 kHz Frequency range
- Shaped Shallow Triple-roll damped surround
- Inverted dust cap

Applications

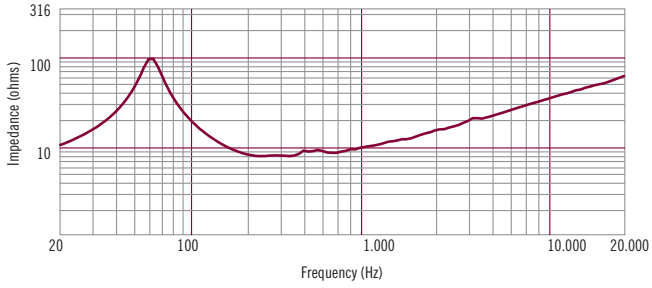
The L12L750 is primary designed to be horn loaded in medium and long throw systems. The dust cap is inverted in order to minimize the cone distortion and for better coupling to a phase plug.
When mounted in compact size bass reflex enclosures, the good combination of short voice coil, very low mass and suspensions control makes the L12L750 a very good choice for high power, 2 way, satellite applications.







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	300/12	mm/inch
Rated Impedance	8	ohm
Program Power [1]	700	Watts
Power handling capacity [2]	350	Watts
Sensitivity [3]	101	dB
Frequency Range	60 - 2000	Hz
Effective Piston Diameter	260/10.2	mm/inch
Max Excursion Before Damage (peak to peak)	40/1.6	mm/inch
Minimum Impedance	7.2	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	aluminum	
Voice Coil Winding Depth	12/0.5	mm/inch
Number of layers	1	
Kind of layer	outside	
Top Plate Thickness	10/0.4	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	Triple - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	62	Hz
DC resistance	Re	5.2	ohm
Mechanical factor	Qms	4.1	
Electrical factor	Qes	0.29	
Total factor	Qts	0.27	
BL Factor	BL	18.8	T · m
Effective Moving Mass	Mms	50	gr
Equivalent Cas air load	Vas	52	liters
Effettive piston area	Sd	0,053	m^2
Max. linear excursion (mathematical) [5]	Xmax	3.5	mm
Voice - coil inductance @ 1KHz	Le1K	1.25	mH
Half-space efficiency	Eff	4.12	%

Mounting Information

Overall Diameter	320/12.6	mm/inch
Bolt Circle Diameter	296-304/11.7-12	mm/inch
Bolt Hole Diameter	7/0.3	mm/inch
Front Mount Baffle Cut-out	286/11.3	mm/inch
Rear Mount Baffle Cut-out	284/11.2	mm/inch
Depth	146/5.7	mm/inch
Volume occupied by the driver [6]	2.9/0.10	liters/ft3

Shipping Information

Net Weight	11.5/25.3	Kg/Lbs
Shipping Weight	12/26.4	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 500-2 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

MID-BASS
L12P110K

Professional Low Frequency Transducer

Very high efficiency and low distortion are special features of this mid-bass transducer. Special treatments are applied to cone surface and surround for optimum dampening.

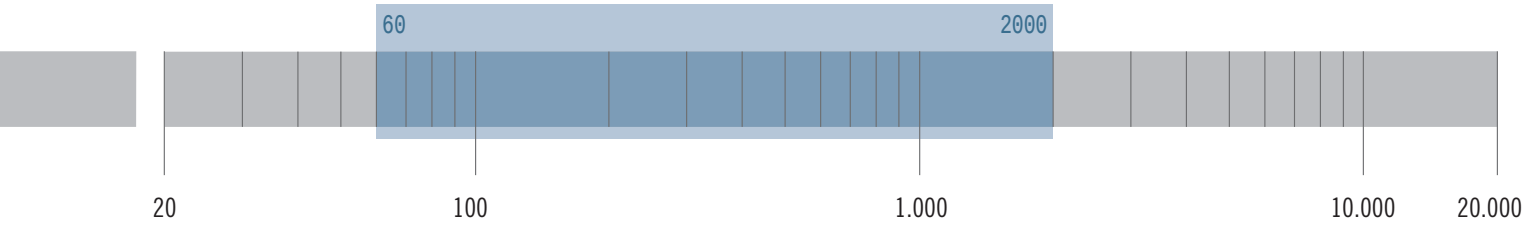
PART NUMBER **11146001**

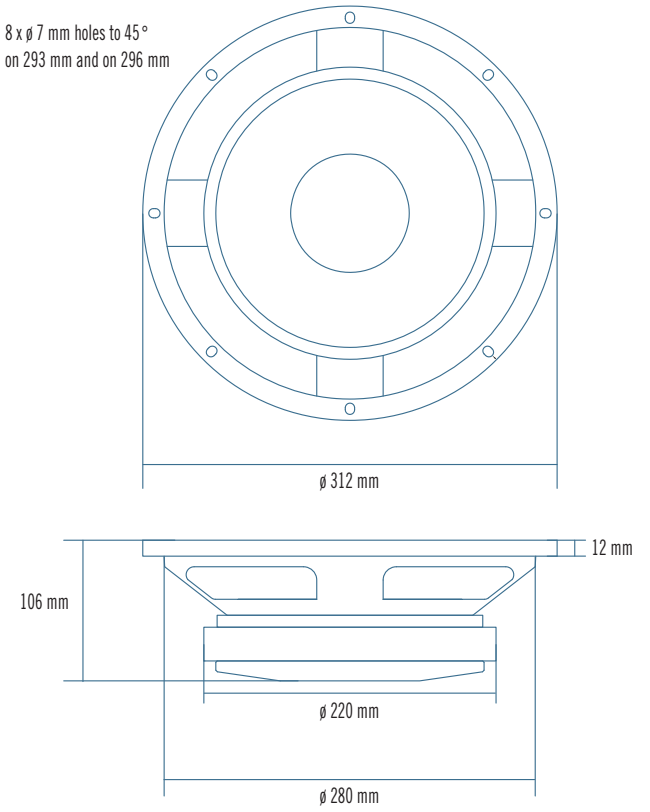
Features

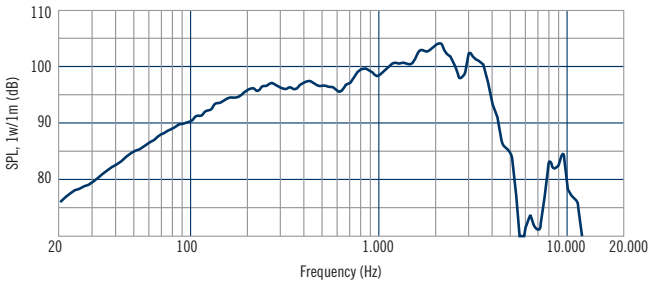
- 4-inch, fibreglass inside-outside copper voice coil
- 1000 Watt continuous program power handling
- 101 dB Sensitivity
- 60 Hz - 2 kHz Frequency range
- M-roll damped surround
- Corrugated straight damped cone

Applications

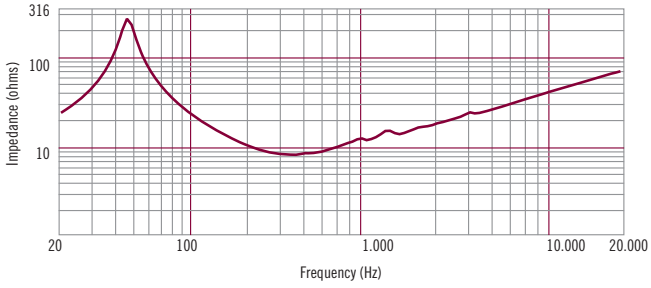
The L12P110K is specially designed for compact size bass reflex enclosures. The unique combination of short voice coil and very high BL/Re ratio makes the L12P100K a very good choice when fast and precise mid-bass reproduction is required.
Very good for high power horn loaded applications.







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	300/12	mm/inch
Rated Impedance	8	ohm
Program Power [1]	1000	Watts
Power handling capacity [2]	500	Watts
Sensitivity [3]	101	dB
Frequency Range	60 - 2000	Hz
Effective Piston Diameter	260/10.2	mm/inch
Max Excursion Before Damage (peak to peak)	48/1.9	mm/inch
Minimum Impedance	7.6	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	10.5/0.4	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	9/0.35	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	44	Hz
DC resistance	Re	5.6	ohm
Mechanical factor	Qms	4.3	
Electrical factor	Qes	0.14	
Total factor	Qts	0.13	
BL Factor	BL	25	T · m
Effective Moving Mass	Mms	55	gr
Equivalent Cas air load	Vas	98	liters
Effettive piston area	Sd	0.053	m^2
Max. linear excursion (mathematical) [5]	Xmax	3,0	mm
Voice - coil inductance @ 1KHz	Le1K	1	mH
Half-space efficiency	Eff	5.75	%

Mounting Information

Overall Diameter	312/12.3	mm/inch
Bolt Circle Diameter	293-296/11.5-11.6	mm/inch
Bolt Hole Diameter	7/0.3	mm/inch
Front Mount Baffle Cut-out	285/11.3	mm/inch
Rear Mount Baffle Cut-out	283/11.2	mm/inch
Depth	115/4.5	mm/inch
Volume occupied by the driver [6]	2.8/0.09	liters/ft3

Shipping Information

Net Weight	11.2/24.6	Kg/Lbs
Shipping Weight	11.9/26.2	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 500-2 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
L12P540

Professional Low Frequency Transducer

High power 12” woofer. Very good power handling, excellent linearity and very low distortion.
Very efficient heat dissipation is ensured by a radiator that is part of the basket design. The air is forced in the radiator thanks to a sealed spider design.

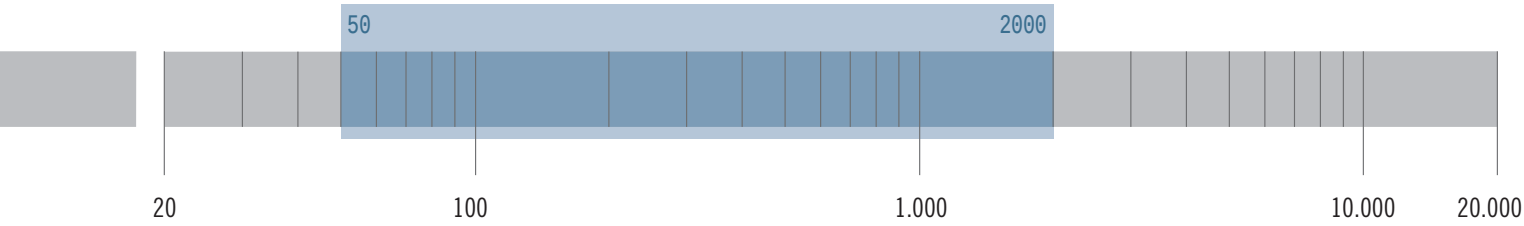
PART NUMBER **11145017**

Features

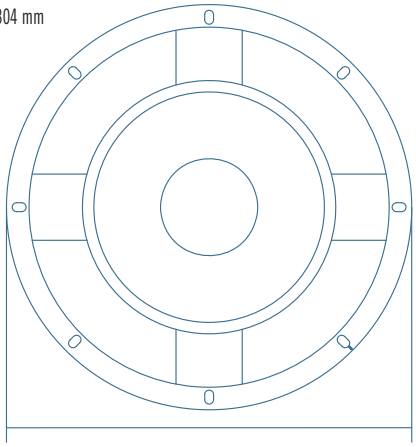
- 3-inch, fibreglass inside-outside copper voice coil
- 800 Watt continuous program power handling
- 97 dB Sensitivity
- 50 Hz - 2 kHz Frequency range
- Spider dampening treatment
- M-roll surround and exponential cone geometry

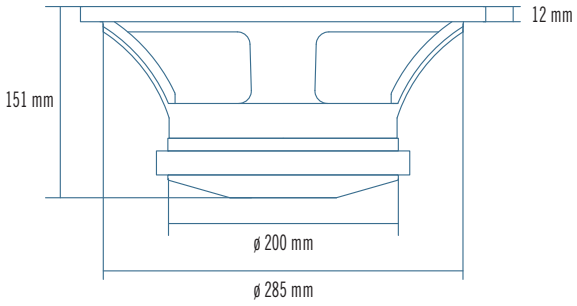
Applications

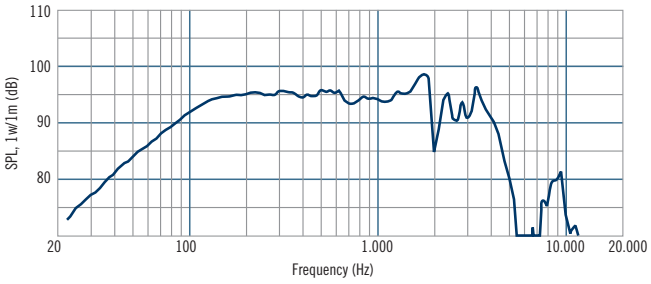
The excellent linear response, well controlled down to 50 Hertz, makes the L12P540 especially suitable for band-pass enclosures and small size bass reflex systems. It is a very good solution for two or three way system when a very high BL and good punch is required.



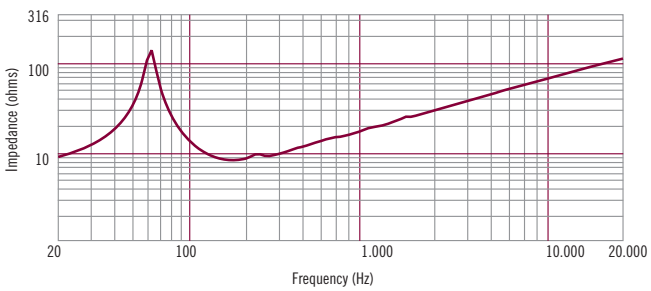
8 holes ø 7 mm to 45°
on ø 296 mm and on ø 304 mm







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	300/12	mm/inch
Rated Impedance	8	ohm
Program Power [1]	800	Watts
Power handling capacity [2]	400	Watts
Sensitivity [3]	97	dB
Frequency Range	50 - 2000	Hz
Effective Piston Diameter	260/10.2	mm/inch
Max Excursion Before Damage (peak to peak)	34/1.3	mm/inch
Minimum Impedance	7.4	ohm
Voice Coil Diameter	76/3	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	18/0.7	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	10/0.4	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	59	Hz
DC resistance	Re	5.6	ohm
Mechanical factor	Qms	11	
Electrical factor	Qes	0.36	
Total factor	Qts	0.35	
BL Factor	BL	19.5	T · m
Effective Moving Mass	Mms	66	gr
Equivalent Cas air load	Vas	45	liters
Effettive piston area	Sd	0.053	m^2
Max. linear excursion (mathematical) [5]	Xmax	6.5	mm
Voice - coil inductance @ 1KHz	Le1K	1.8	mH
Half-space efficiency	Eff	2.47	%

Mounting Information

Overall Diameter	320/12.6	mm/inch
Bolt Circle Diameter	296-304/11.7-12	mm/inch
Bolt Hole Diameter	7/0.3	mm/inch
Front Mount Baffle Cut-out	286/11.3	mm/inch
Rear Mount Baffle Cut-out	284/11.2	mm/inch
Depth	155/6.1	mm/inch
Volume occupied by the driver [6]	2.3/0.08	liters/ft3

Shipping Information

Net Weight	8.5/18.7	Kg/Lbs
Shipping Weight	9/19.8	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
LF12G301

Professional Low Frequency Transducer

High power 12” woofer. Very good power handling, excellent linearity and very low distortion.
Copper voice coil construction, suspensions and cone materials designed to survive at 450 Watt RMS power.

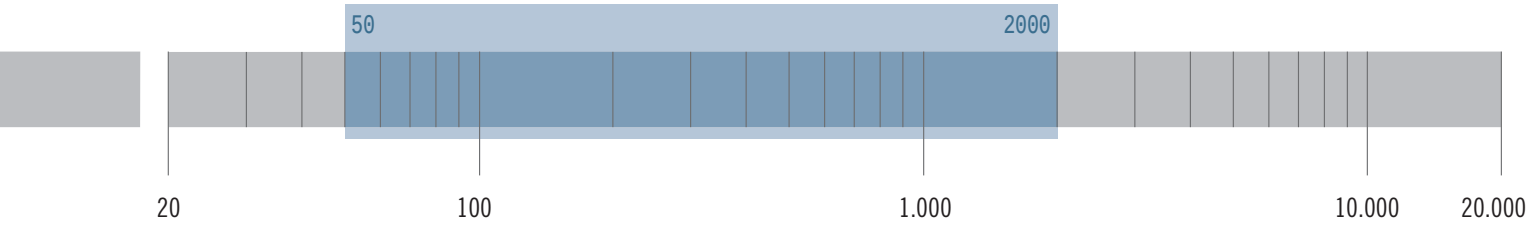
PART NUMBER **11100016**

Features

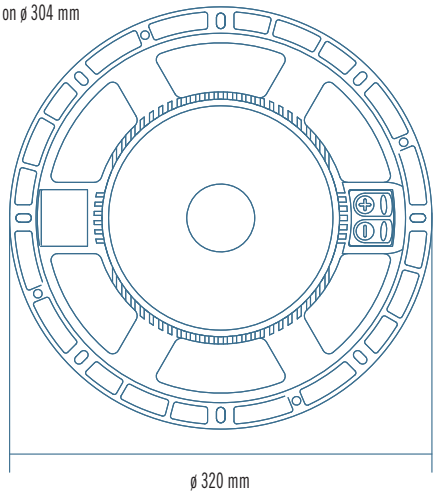
- 3-inch, , fibreglass inside-outside copper voice coil
- 900 Watt continuous program power handling
- 97 dB Sensitivity
- 40 Hz - 2 kHz Frequency range
- M-roll surround and exponential cone geometry

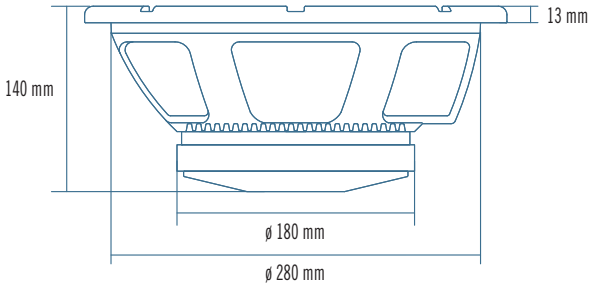
Applications

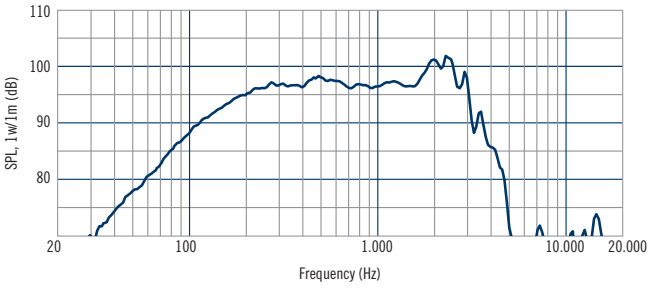
The excellent linear response, well controlled down to 50 Hertz, makes the LF12G301 especially suitable for band-pass subwoofers and small size bass reflex systems. It is a very good solution for two or three way system when a good BL and punch is required.



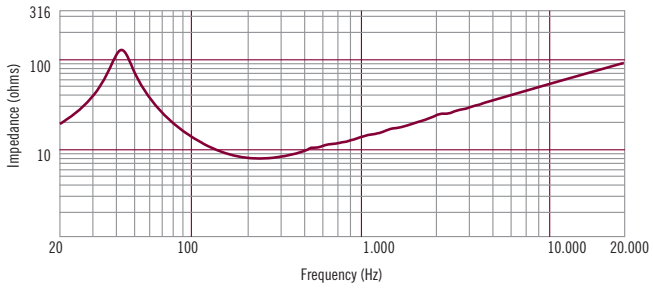
8 holes ø 6,5 mm to 45°
on ø 293 mm and on ø 304 mm







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	300/12	mm/inch
Rated Impedance	8	ohm
Program Power [1]	900	Watts
Power handling capacity [2]	450	Watts
Sensitivity [3]	97	dB
Frequency Range	40 - 2000	Hz
Effective Piston Diameter	260/10.2	mm/inch
Max Excursion Before Damage (peak to peak)	36/1.4	mm/inch
Minimum Impedance	7.2	ohm
Voice Coil Diameter	76/3	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	18.5/0.7	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	10/0.4	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	43	Hz
DC resistance	Re	5.8	ohm
Mechanical factor	Qms	4.6	
Electrical factor	Qes	0.23	
Total factor	Qts	0.22	
BL Factor	BL	19	T · m
Effective Moving Mass	Mms	56	gr
Equivalent Cas air load	Vas	97	liters
Effettive piston area	Sd	0.053	m^2
Max. linear excursion (mathematical) [5]	Xmax	6.8	mm
Voice - coil inductance @ 1KHz	Le1K	2.0	mH
Half-space efficiency	Eff	3.23	%

Mounting Information

Overall Diameter	320/12.6	mm/inch
Bolt Circle Diameter	293-304/11.5-12	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	282/11.1	mm/inch
Rear Mount Baffle Cut-out	284/11.2	mm/inch
Depth	138/5.4	mm/inch
Volume occupied by the driver [6]	2.6/0.09	liters/ft3

Shipping Information

Net Weight	7.3/16.2	Kg/Lbs
Shipping Weight	8.1/18.0	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

MID-BASS
MB12G301

Professional Low Frequency Transducer

High efficiency 12” mid-bass. Very high sensitivity, excellent linearity and very low distortion.
Voice coil construction, suspensions and cone materials designed to survive at 400 Watt RMS power.

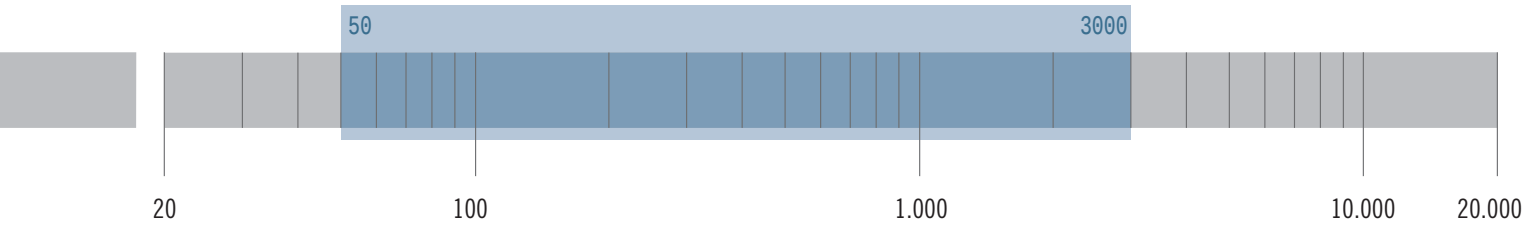
PART NUMBER **11100017**

Features

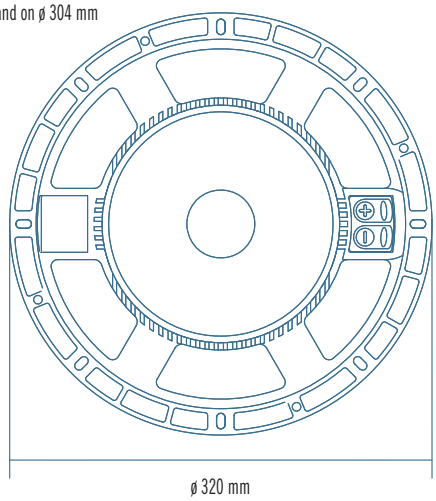
- 3-inch inside-outside aluminum voice coil
- 800 Watt continuous program power handling
- 98 dB Sensitivity
- 50 Hz - 3 kHz Frequency range
- M-roll surround and exponential cone geometry

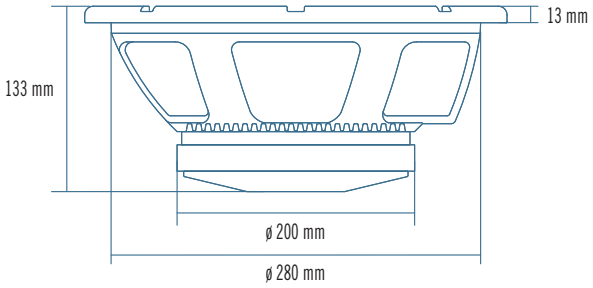
Applications

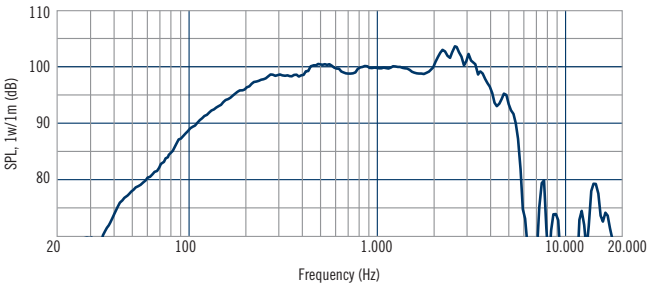
A very light moving mass, a curve response linear above 3 kHz makes the MB12G301 a very good solution for high quality two or three way system.
The aluminum voice coil guarantee a very high efficiency in conjunction to a proper Q factor for a good bass response.



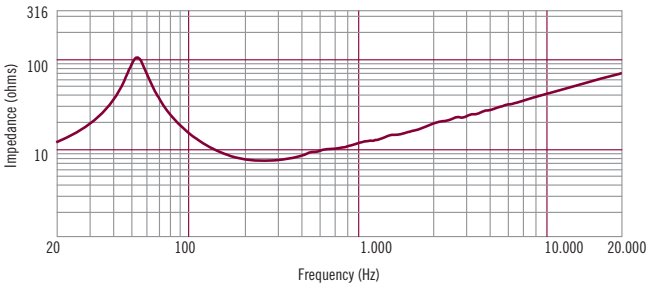
8 holes ø 6,5 mm to 45°
on ø 293,5 mm and on ø 304 mm







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	300/12	mm/inch
Rated Impedance	8	ohm
Program Power [1]	800	Watts
Power handling capacity [2]	400	Watts
Sensitivity [3]	98	dB
Frequency Range	50 - 3000	Hz
Effective Piston Diameter	260/10.2	mm/inch
Max Excursion Before Damage (peak to peak)	38/1.49	mm/inch
Minimum Impedance	7.2	ohm
Voice Coil Diameter	76/3	mm/inch
Voice Coil Material	aluminum	
Voice Coil Winding Depth	16/0.6	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	10/0.4	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	53	Hz
DC resistance	Re	5.4	ohm
Mechanical factor	Qms	4.7	
Electrical factor	Qes	0.28	
Total factor	Qts	0.27	
BL Factor	BL	17	T · m
Effective Moving Mass	Mms	48	gr
Equivalent Cas air load	Vas	72	liters
Effettive piston area	Sd	0.053	m^2
Max. linear excursion (mathematical) [5]	Xmax	5.5	mm
Voice - coil inductance @ 1KHz	Le1K	0.7	mH
Half-space efficiency	Eff	3.69	%

Mounting Information

Overall Diameter	320/12.6	mm/inch
Bolt Circle Diameter	293,5-304/11.5-12	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	282/11.1	mm/inch
Rear Mount Baffle Cut-out	284/11.2	mm/inch
Depth	138/5.4	mm/inch
Volume occupied by the driver [6]	2.6/0.09	liters/ft3

Shipping Information

Net Weight	7.3/16.2	Kg/Lbs
Shipping Weight	8.1/18.0	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 200-2 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

MID-BASS
L12/854K

Professional Low Frequency Transducer

High efficiency 12” mid-bass. Very high sensitivity, excellent linearity and very low distortion.

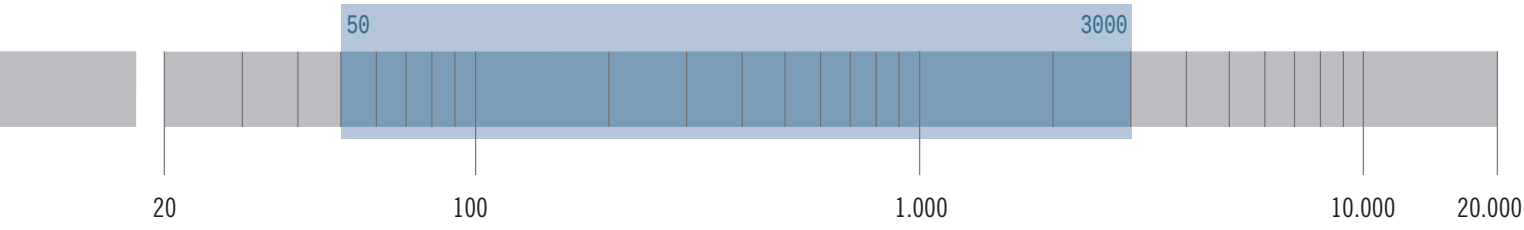
PART NUMBER **11140030**

Features

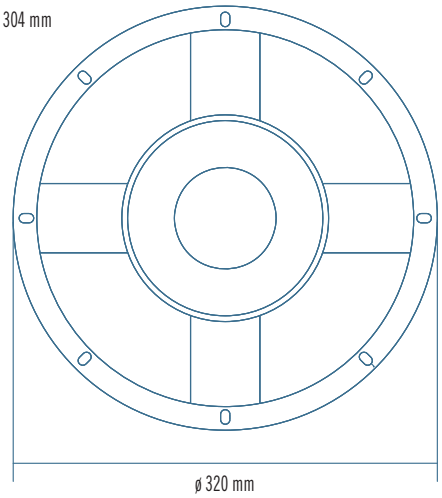
- 2,5-inch, Kapton former, copper voice coil
- 700 Watt continuous program power handling
- 98 dB Sensitivity
- 50 Hz - 3 kHz Frequency range
- M-roll surround and exponential cone geometry

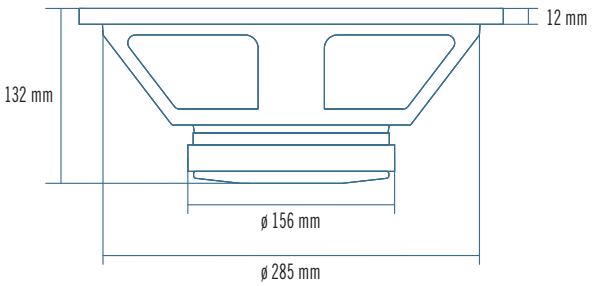
Applications

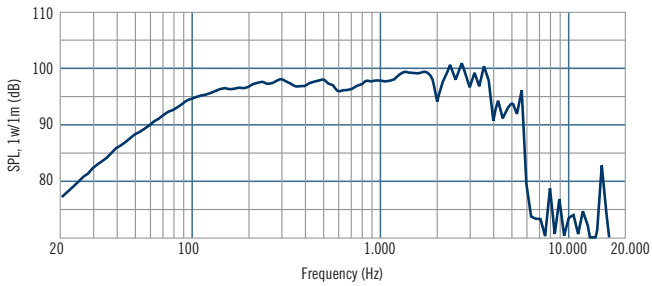
A very light moving mass, a curve response linear above 3 kHz makes the L12/854K a very good solution for high quality two or three way system. Very easy to cross-over and ideal in conjunction to small size 1 inch compression drivers.



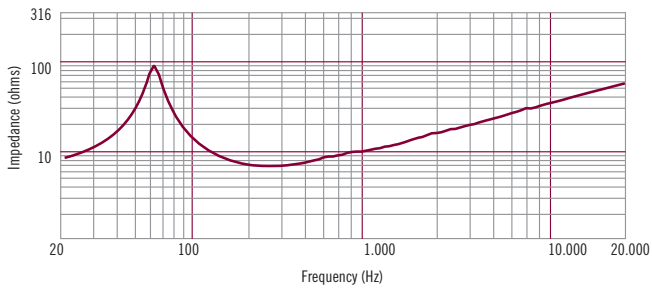
8 holes ø 7 mm to 45°
on ø 296 mm and on ø 304 mm







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	320/12	mm/inch
Rated Impedance	8	ohm
Program Power [1]	700	Watts
Power handling capacity [2]	350	Watts
Sensitivity [3]	98	dB
Frequency Range	50 - 3000	Hz
Effective Piston Diameter	260/10.2	mm/inch
Max Excursion Before Damage (peak to peak)	30/1.2	mm/inch
Minimum Impedance	6.3	ohm
Voice Coil Diameter	64/2.5	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	10/0.4	mm/inch
Number of layers	2	
Kind of layer	outside	
Top Plate Thickness	8/0.3	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	67	Hz
DC resistance	Re	5.0	ohm
Mechanical factor	Qms	3.4	
Electrical factor	Qes	0.43	
Total factor	Qts	0.38	
BL Factor	BL	13.7	T · m
Effective Moving Mass	Mms	38	gr
Equivalent Cas air load	Vas	58	liters
Effettive piston area	Sd	0.053	m^2
Max. linear excursion (mathematical) [5]	Xmax	3.0	mm
Voice - coil inductance @ 1KHz	Le1K	1.1	mH
Half-space efficiency	Eff	3.91	%

Mounting Information

Overall Diameter	320/12.6	mm/inch
Bolt Circle Diameter	296-304/11.7-12	mm/inch
Bolt Hole Diameter	7/0.3	mm/inch
Front Mount Baffle Cut-out	286/11.3	mm/inch
Rear Mount Baffle Cut-out	284/11.2	mm/inch
Depth	137/5.4	mm/inch
Volume occupied by the driver [6]	2.2/0.08	liters/ft3

Shipping Information

Net Weight	5.4/11.9	Kg/Lbs
Shipping Weight	5.9/13	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 200-2 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

MID-BASS
L10/750YK

Professional Low Frequency Transducer

The L10/750YK is a professional mid-bass woofer featuring very high output and dynamics. The mobile equipment, used a 3" coil, fibreglass former and copper wire winding, has enabled considerable improvement in transient peak response and has allowed good extension on mid-high frequencies. A specially designed M-roll surround guarantee a very low midrange distortion and perfect damping of the spurious resonances.

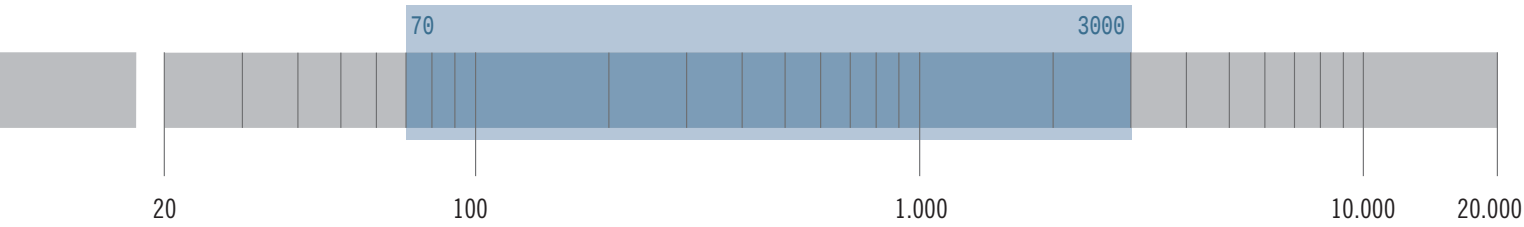
PART NUMBER **11130015**

Features

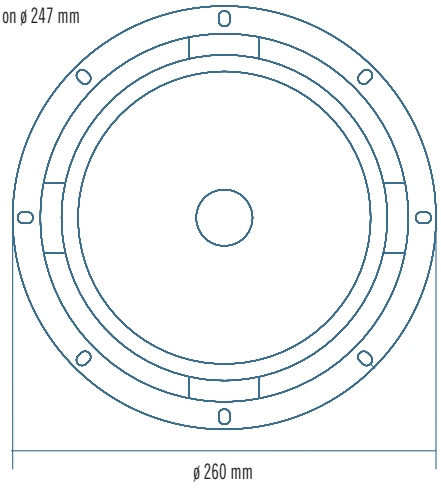
- 3-inch, fibreglass inside-outside copper voice coil
- 700 Watt continuous program power handling
- 100 dB Sensitivity
- 70 Hz - 3 kHz Frequency range
- Shaped M-roll damped surround

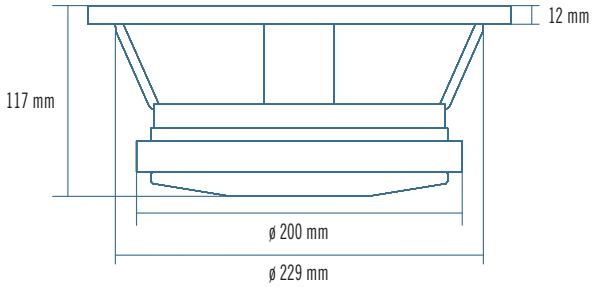
Applications

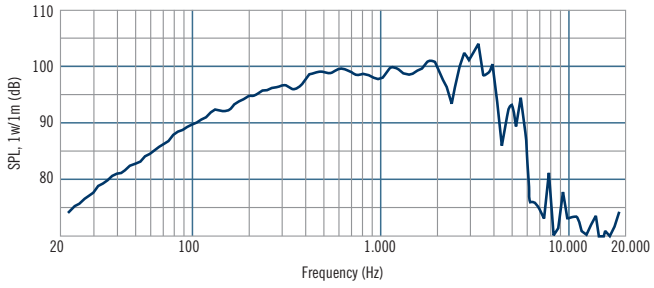
The L10/750YK is primary designed to be horn loaded in medium and long throw systems. When mounted in compact size bass reflex enclosures, the good combination of short voice coil, very low mass and suspensions control makes the L10/750YK a very good choice for high power, 2 way, satellite applications.



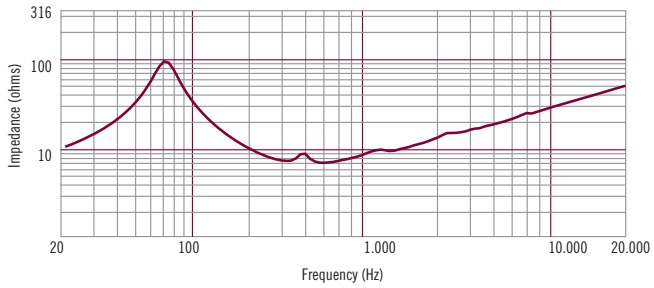
8 holes ø 7 mm to 45°
on ø 242 mm and on ø 247 mm







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	250/10	mm/inch
Rated Impedance	8	ohm
Program Power [1]	700	Watts
Power handling capacity [2]	350	Watts
Sensitivity [3]	100	dB
Frequency Range	70 - 3000	Hz
Effective Piston Diameter	210/8.3	mm/inch
Max Excursion Before Damage (peak to peak)	40/1.6	mm/inch
Minimum Impedance	6.7	ohm
Voice Coil Diameter	76/3	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	9/0.35	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	9/0.35	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	68	Hz
DC resistance	Re	5.1	ohm
Mechanical factor	Qms	4.2	
Electrical factor	Qes	0.25	
Total factor	Qts	0.24	
BL Factor	BL	17.5	T · m
Effective Moving Mass	Mms	36	gr
Equivalent Cas air load	Vas	26	liters
Effettive piston area	Sd	0.035	m^2
Max. linear excursion (mathematical) [5]	Xmax	2.5	mm
Voice - coil inductance @ 1KHz	Le1K	1.3	mH
Half-space efficiency	Eff	3.15	%

Mounting Information

Overall Diameter	260/10.6	mm/inch
Bolt Circle Diameter	242-247/9.2-9.7	mm/inch
Bolt Hole Diameter	5.5/0.2	mm/inch
Front Mount Baffle Cut-out	230/9.1	mm/inch
Rear Mount Baffle Cut-out	229/9.0	mm/inch
Depth	120/4.7	mm/inch
Volume occupied by the driver [6]	1.2/0.04	liters/ft3

Shipping Information

Net Weight	7.70/16.9	Kg/Lbs
Shipping Weight	8.10/17.8	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 500-2 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

MID-BASS
L10/568H

Professional Low Frequency Transducer

High efficiency 10” mid-bass. Very high sensitivity, excellent linearity. A copper ring helps reducing distortion and smoothing the response up to 3 kHz.
Voice coil construction, suspensions and cone materials designed to survive at 350 Watt RMS power.

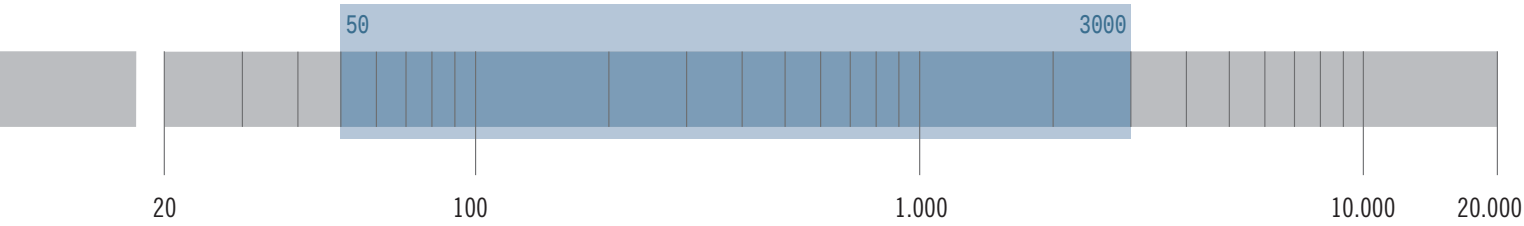
PART NUMBER **11130023**

Features

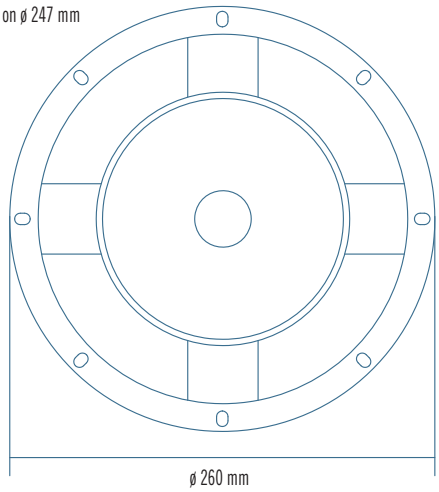
- 2-inch inside-outside aluminum voice coil
- 400 Watt continuous program power handling
- 97.5 dB Sensitivity
- 50 Hz - 3 kHz Frequency range
- M-roll surround and exponential cone geometry
- Copper ring

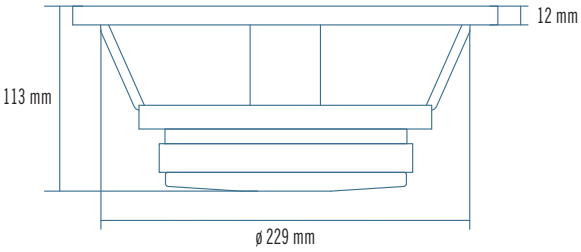
Applications

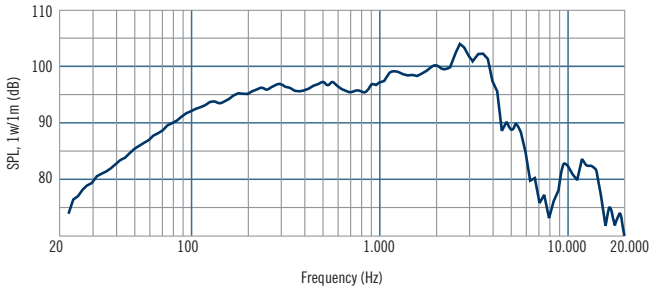
A very light moving mass, a curve response linear above 3 kHz makes the L10/568H a very good solution for high quality two way systems.
The 2” copper voice coil guarantee a very high power handling and perfect low frequency control.



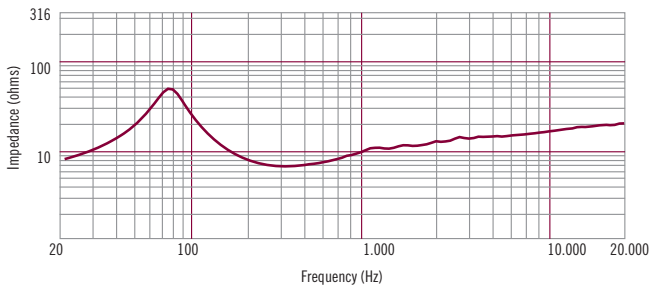
8 holes ø 7 mm to 45°
on ø 242 mm and on ø 247 mm







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	260/10	mm/inch
Rated Impedance	8	ohm
Program Power [1]	400	Watts
Power handling capacity [2]	200	Watts
Sensitivity [3]	97.5	dB
Frequency Range	50 - 3000	Hz
Effective Piston Diameter	210/8.3	mm/inch
Max Excursion Before Damage (peak to peak)	40/1.6	mm/inch
Minimum Impedance	6.6	ohm
Voice Coil Diameter	51/2	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	13/0.5	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	9/0.4	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	70	Hz
DC resistance	Re	5.1	ohm
Mechanical factor	Qms	6	
Electrical factor	Qes	0.41	
Total factor	Qts	0.38	
BL Factor	BL	12.8	T · m
Effective Moving Mass	Mms	30	gr
Equivalent Cas air load	Vas	29.4	liters
Effettive piston area	Sd	0.035	m^2
Max. linear excursion (mathematical) [5]	Xmax	4.3	mm
Voice - coil inductance @ 1KHz	Le1K	1.05	mH
Half-space efficiency	Eff	2.37	%

Mounting Information

Overall Diameter	260/10.2	mm/inch
Bolt Circle Diameter	242-247/9.5-9.7	mm/inch
Bolt Hole Diameter	7/0.3	mm/inch
Front Mount Baffle Cut-out	230/9.1	mm/inch
Rear Mount Baffle Cut-out	229/9.0	mm/inch
Depth	115/4.5	mm/inch
Volume occupied by the driver [6]	1.1/0.04	liters/ft3

Shipping Information

Net Weight	4.4/9.7	Kg/Lbs
Shipping Weight	4.8/10.6	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 500-2 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

MID-BASS
MB8G200

Professional Low Frequency Transducer

The MBG200 is a professional mid-bass woofer featuring very high output and dynamics. The equipment, used a 2" coil, fibreglass former and copper inside/outside winding, has enabled a very good transient peak response and has allowed good extension on mid-high frequencies. A specially designed M-roll surround guarantee a very low midrange distortion and perfect damping of the spurious resonances. Inverted dust cap for minimum cone break-up.

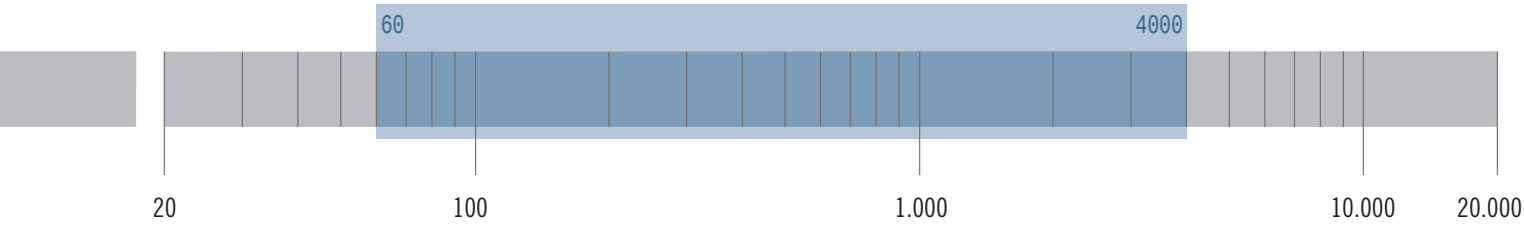
PART NUMBER **11100018**

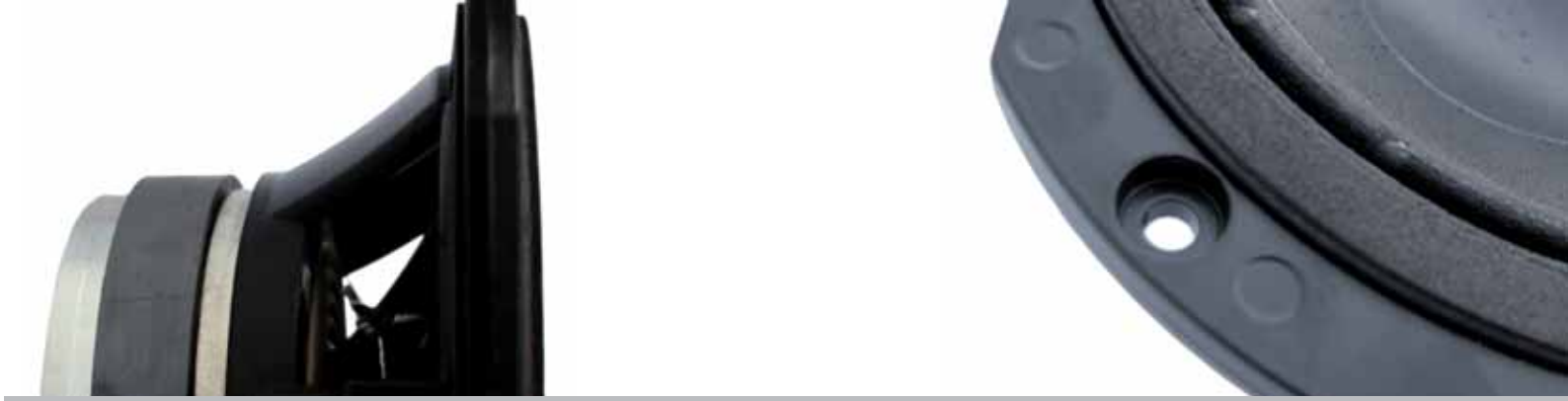
Features

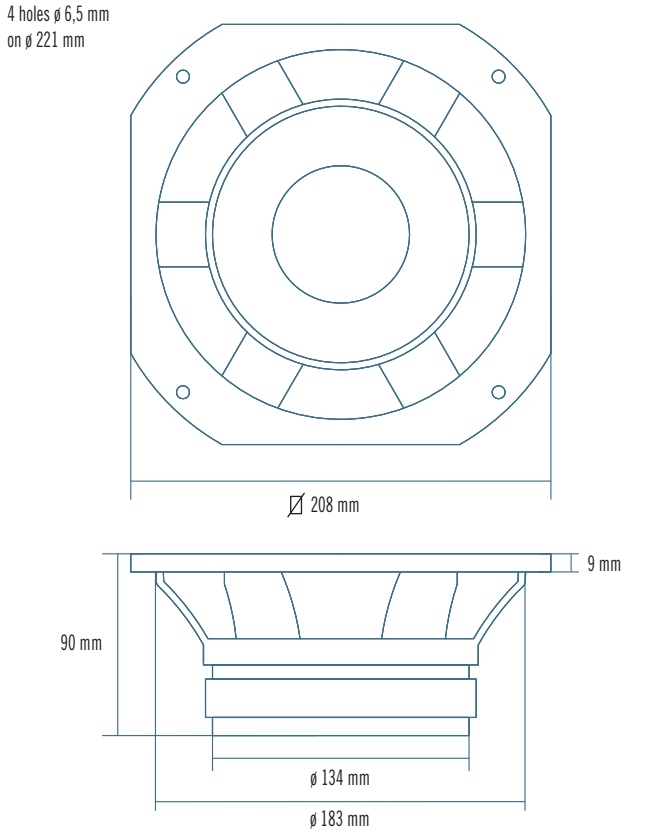
- 2-inch, fiber glass former, copper voice coil
- 400 Watt continuous program power handling
- 94 dB Sensitivity
- 60 Hz - 4 kHz Frequency range
- Exponential, high strength
- M-roll damped surround

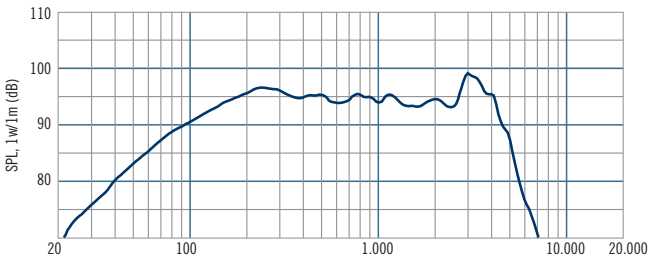
Applications

The MBG200 is the ideal low frequency transducer for very compact, high efficiency, bass reflex systems where the maximum dynamic is required. Specially designed for 2 way satellite systems.

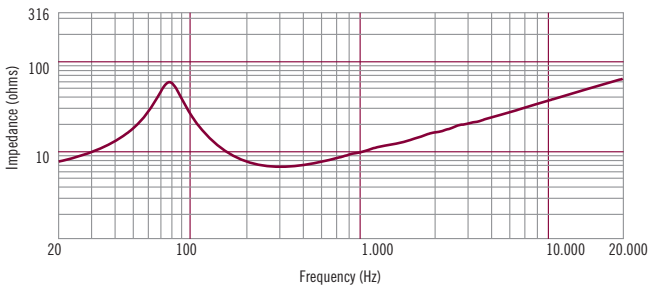








Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	200/8	mm/inch
Rated Impedance	8	ohm
Program Power [1]	400	Watts
Power handling capacity [2]	200	Watts
Sensitivity [3]	94	dB
Frequency Range	60 - 4000	Hz
Effective Piston Diameter	165/6.5	mm/inch
Max Excursion Before Damage (peak to peak)	30/1.2	mm/inch
Minimum Impedance	6.2	ohm
Voice Coil Diameter	51/2	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	16/0.6	mm/inch
Number of layers	2	
Kind of layer	outside	
Top Plate Thickness	8/0.3	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	76	Hz
DC resistance	Re	4.8	ohm
Mechanical factor	Qms	3.7	
Electrical factor	Qes	0.37	
Total factor	Qts	0.33	
BL Factor	BL	12.5	T · m
Effective Moving Mass	Mms	25	gr
Equivalent Cas air load	Vas	11	liters
Effettive piston area	Sd	0.021	m^2
Max. linear excursion (mathematical) [5]	Xmax	6.0	mm
Voice - coil inductance @ 1KHz	Le1K	1.4	mH
Half-space efficiency	Eff	1.26	%

Mounting Information

Overall Diameter	239/9.4	mm/inch
Bolt Circle Diameter	221/8.7	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	184/7.24	mm/inch
Rear Mount Baffle Cut-out	184/7.24	mm/inch
Depth	95/3.7	mm/inch
Volume occupied by the driver [6]	0.8/0.03	liters/ft3

Shipping Information

Net Weight	3.1/6.8	Kg/Lbs
Shipping Weight	3.3/7.3	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 200-2 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

WOOFER
L8S800

Professional Low Frequency Transducer

Very high linearity and low distortion are special features of this carbon-fibre cone transducer. The use of an RCF exponential carbon fibre cone of exceptional strength and light weight drastically reduces the break-up, thus ensuring a high level of efficiency and excellent transient response. The cone is completely water-repellent. Maximum care in the selection of the components and in the assembly process make the L8S800 an extremely reliable woofer.

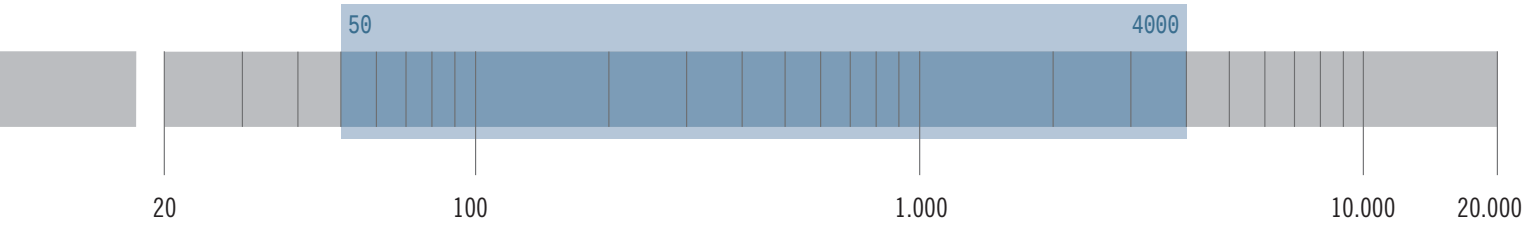
PART NUMBER **11120007**

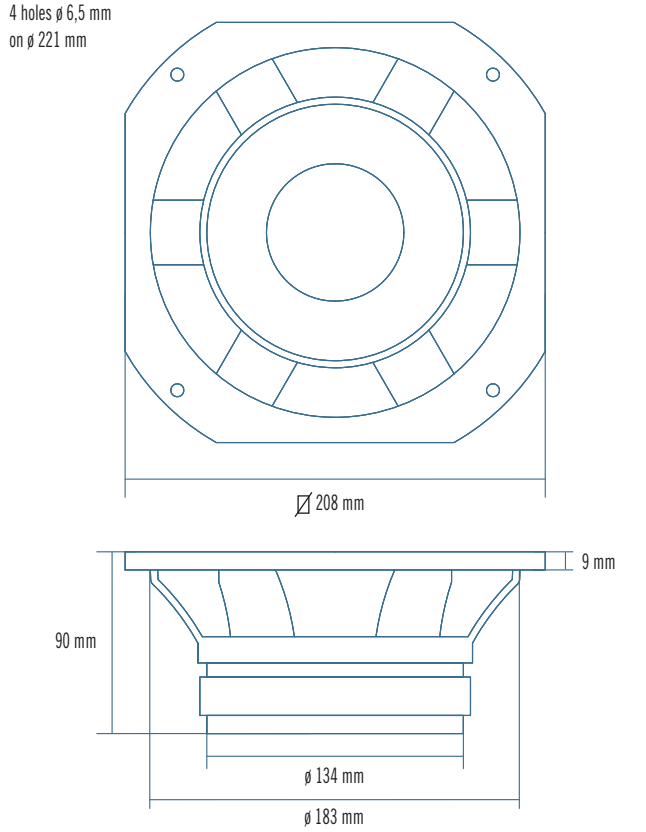
Features

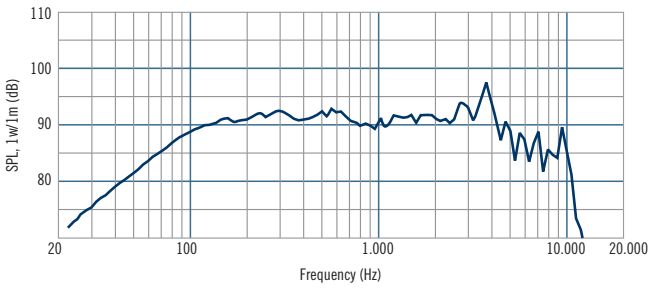
- 1.5-inch, Kapton former, copper voice coil
- 340 Watt continuous program power handling
- 93 dB Sensitivity
- 50 Hz - 4 kHz Frequency range
- Exponential, high strength, carbon fibre cone
- M-roll damped surround

Applications

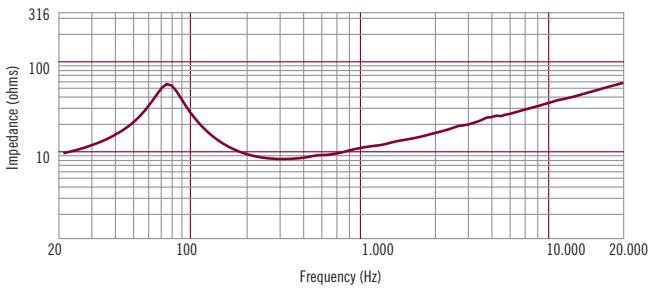
The L8S800 is the ideal woofer for very compact, full range, bass reflex systems where a good balance between mid-bass linearity and low frequency extension is required. The light mass and mid-range extension is perfect for coupling to a small size driver or tweeter.







Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



Impedance magnitude curve measured in free air.

General Specifications

Nominal Diameter	200/8	mm/inch
Rated Impedance	8	ohm
Program Power [1]	340	Watts
Power handling capacity [2]	170	Watts
Sensitivity [3]	93	dB
Frequency Range	50 - 4000	Hz
Effective Piston Diameter	165/6.5	mm/inch
Max Excursion Before Damage (peak to peak)	30/1.2	mm/inch
Minimum Impedance	7.3	ohm
Voice Coil Diameter	38/1.5	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	15/0.6	mm/inch
Number of layers	2	
Kind of layer	outside	
Top Plate Thickness	7/0.3	mm/inch
Cone Material	Carbon fiber	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

Thiele - Small Parameters [4]

Resonance frequency	Fs	60	Hz
DC resistance	Re	6.1	ohm
Mechanical factor	Qms	4.1	
Electrical factor	Qes	0.46	
Total factor	Qts	0.41	
BL Factor	BL	10.3	T · m
Effective Moving Mass	Mms	21	gr
Equivalent Cas air load	Vas	22	liters
Effettive piston area	Sd	0.021	m^2
Max. linear excursion (mathematical) [5]	Xmax	5.8	mm
Voice - coil inductance @ 1KHz	Le1K	0.9	mH
Half-space efficiency	Eff	1.00	%

Mounting Information

Overall Diameter	239/9.4	mm/inch
Bolt Circle Diameter	221/8.7	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	184/7.24	mm/inch
Rear Mount Baffle Cut-out	184/7.24	mm/inch
Depth	94/3.7	mm/inch
Volume occupied by the driver [6]	0.8/0.03	liters/ft3

Shipping Information

Net Weight	3.1/6.8	Kg/Lbs
Shipping Weight	3.3/7.3	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 200-2 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

HIGH FREQUENCY **NEODYMIUM TRANSDUCERS**

Every detail is under our control, from titanium forming and voice coil winding to phase plugs machining and final assembly. Lightweight and powerful, our neodymium drivers are a reference in performance and reliability.

DIRECT DRIVE **VOICE COIL ASSEMBLIES**

The top of the former is bent and bonded directly to the edge of the titanium diaphragm resulting in a Direct Drive configuration. Direct Drive guarantees optimal transfer of energy between the voice coil and the dome assembly, providing smoother, extended frequency response beyond 10 KHz, reducing break up modes and lowering distortion. This assembly delivers high power handling along with excellent mechanical and thermal properties that make RCF neodymium compression drivers robust and reliable.

DIAPHRAGM
ASSEMBLIES

Diaphragms and suspensions are precision formed from ultra thin pure titanium. Suspensions are based on an innovative design using progressive parabolic semi circles. The sections of the suspension offer a consistent suspension modulus with a variable, altering profile. This drastically reduces distortion eliminating resonance points and assists in controlling suspension break-up modes. The rear magnetic plate where the diaphragm assembly is located, possesses specially designed CNC machined ventilation slots that eliminate standing waves, turbulence and distortion created by the movement of the suspension. At the point where the titanium suspension is bonded to the assembly ring, a special dampening adhesive has been applied in order to further reduce and eliminate distortion creating resonances. The diaphragm assembly has been designed with easy field service in mind as it can be removed and replaced within minutes.

NEODYMIUM
MAGNETIC CIRCUITS

Neodymium magnetic circuit designs provide even higher magnetic field strength in the voice coil gap than standard ceramic assemblies while dramatically lowering the overall weight of the device. Neodymium rare earth material also provides higher levels of force (BL) that increase control of the dome assembly's moving mass. This leads to higher efficiency, better transient response and diminishes high frequency distortion modes. A thin copper ring is precision pressed on to the pole piece in order to modify and lower the inductance characteristics of the magnetic circuit and voice coil providing a controlled extension of the acoustic frequency response. RCF has provided cooling fins on the rear of the aluminum diaphragm assembly cover that creates a heat dissipating surface area for the driver's magnetic circuit. This assists in lowering circuit temperature, improving the driver's power compression characteristics and increasing output. Specific attention has been paid to magnetic circuit polarization for optimum thermal immunity

DRIVER
ND3020-T3

Professional High Frequency Transducer

The ND3020T3 is a high performance 3.0-inch diaphragm compression driver with a 2 inch exit throat featuring several state of the art technologies. The diaphragm and suspension are precision formed from .05 mm thick pure titanium. The suspension is based on an innovative design using progressive parabolic semi circles.

PART NUMBER **15120009**

Features

- 3-inch Diaphragm, 2.0-inch Exit Throat/ Pure Titanium Compression Driver
- 220 watt Continuous program power handling
- Frequency range: 500Hz - 20kHz
- Direct Drive™ Voice Coil Assembly
- 3-slot, optimized geometry phase plug
- Aluminum rear cover featuring an advanced vented fin heat dissipation design
- Copper inductance ring for extended response
- Vented, damped, low distortion, variable profile suspension System

Applications

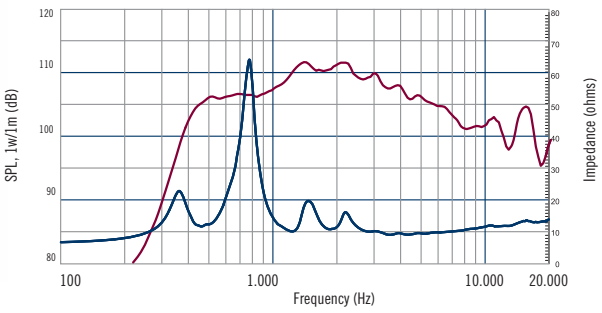
The ND3020-T3 is the ideal driver for professional high performance applications, from high power 2-way systems to multiple-way long throw systems and large format line arrays.

General Specifications

Exit Throat Diameter	50.8/ 2	mm/inch
Rated Impedance	8	ohm
Power handling capacity[1]		
continuous program above 1.2 kHz	220	Watt
AES above 1.0 kHz	110	Watt
Sensitivity 1 W, 1 M, on axis, on horn[2]	109	dB
Frequency Range[3]	500 - 20000	Hz
Diaphragm Material	Pure Titanium	
Suspension Material	Pure Titanium	
Suspension Design	Progressive	
Minimum Impedance	9.3 ohm at 3700 Hz	
Voice Coil Diameter	74.4/3.0	mm/inch
Voice Coil Material	Edgewound Aluminum	
Voice Coil Former Design	Direct drive - Nomex	
Number of layers	1 - Outside	
BL Factor	13.1	T · m
Flux Density	2.05	T
Phase Plug Design	3 slot	
Phase Plug Material	Aluminum	
Magnetics	Neodymium	
Voice Coil Demodulation	Copper ring	

Mounting Information

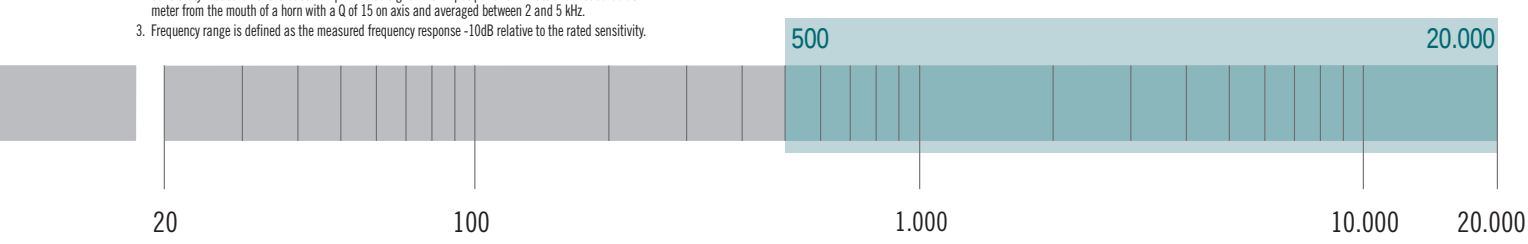
Overall Diameter	139/5.5	mm/inch
Overall Height	99.5/3.9	mm/inch
Mounting		
4 x 6 mm threaded holes at 90 deg.	101.6/4.0	mm/inch
Net Weight	3.4/7.5	kg/Lbs
Shipping Weight	3.7/8,1	kg/Lbs



Frequency response and electrical impedance curve of the compression driver mounted on 90 °H x 40 °V horn with input signal of 2.83 Volt.

Notes to Specifications

1. Continuos pink noise power ratings are derived from suggested AES standards sending a pink noise signal having a 6 dB crest factor with a high pass filter set at the specified lower limiting frequency for two hours. Continuos program power is a conservative power rating for reproduction of typical audio program material.
2. Sensitivity measurement is based on pink noise signal with input power of 1 watt and measured at 1 meter from the mouth of a horn with a Q of 15 on axis and averaged between 2 and 5 kHz.
3. Frequency range is defined as the measured frequency response -10dB relative to the rated sensitivity.



DRIVER
ND3030-T3

Professional High Frequency Transducer

The ND3030T3 is a high performance 3.0-inch diaphragm compression driver with a 1.4 inch exit throat featuring several state of the art technologies. The diaphragm and suspension are precision formed from .05 mm thick pure titanium. The suspension is based on an innovative design using progressive parabolic semi circles.

PART NUMBER **15120010**

Features

- 3-inch Diaphragm, 1.4-inch Exit Throat/ Pure Titanium Compression Driver
- 220 watt Continuous program power handling
- Frequency range: 500Hz - 20kHz
- Direct Drive™ Voice Coil Assembly
- 3-slot, optimized geometry phase plug
- Aluminum rear cover featuring an advanced vented fin heat dissipation design
- Copper inductance ring for extended response
- Vented, damped, low distortion, variable profile suspension System

Applications

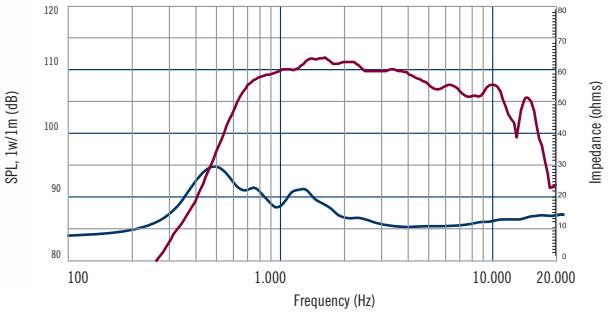
The ND3030-T3 is the ideal driver for professional high performance applications, from high power 2-way systems to multiple-way long throw systems and large format line arrays.

General Specifications

Exit Throat Diameter	35.5/1.4	mm/inch
Rated Impedance	8	ohm
Power handling capacity[1]		
continuous program above 1.2 kHz	220	Watt
AES above 1.0 kHz	110	Watt
Sensitivity 1 W, 1 M, on axis, on horn[2]	109	dB
Frequency Range[3]	500 - 20000	Hz
Diaphragm Material	Pure Titanium	
Suspension Material	Pure Titanium	
Suspension Design	Progressive	
Minimum Impedance	9.1 ohm at 4500 Hz	
Voice Coil Diameter	74.4/3.0	mm/inch
Voice Coil Material	Edgewound Aluminum	
Voice Coil Former Design	Direct drive - Nomex	
Number of layers	1 - Outside	
BL Factor	13	T · m
Flux Density	2.05	T
Phase Plug Design	3 slot	
Phase Plug Material	Aluminum	
Magnetics	Neodymium	
Voice Coil Demodulation	Copper ring	

Mounting Information

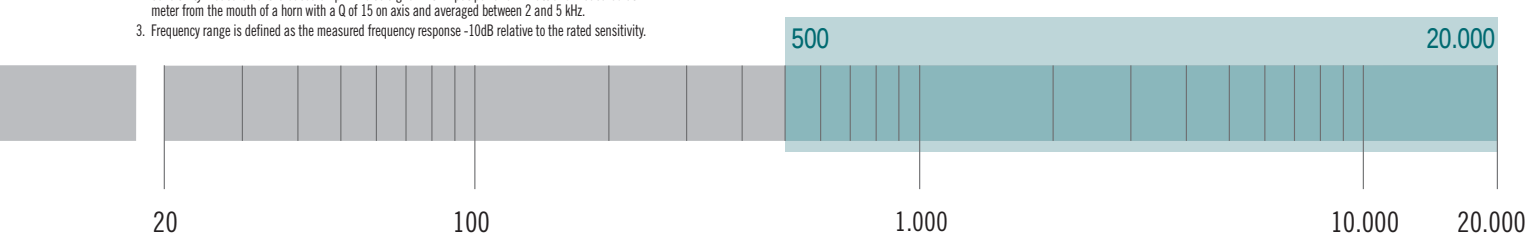
Overall Diameter	139/5.5	mm/inch
Overall Height	64/2.5	mm/inch
Mounting		
4 x 6 mm threaded holes at 90 deg.	101.6/4.0	mm/inch
Net Weight	3.4/7.5	kg/Lbs
Shipping Weight	3.7/8.1	kg/Lbs



Frequency response and electrical impedance curve of the compression driver mounted on HF64 horn with input signal of 2.83 Volt.

Notes to Specifications

1. Continuos pink noise power ratings are derived from suggested AES standards sending a pink noise signal having a 6 dB crest factor with a high pass filter set at the specified lower limiting frequency for two hours. Continuos program power is a conservative power rating for reproduction of typical audio program material.
2. Sensitivity measurement is based on pink noise signal with input power of 1 watt and measured at 1 meter from the mouth of a horn with a Q of 15 on axis and averaged between 2 and 5 kHz.
3. Frequency range is defined as the measured frequency response -10dB relative to the rated sensitivity.



DRIVER
ND2530-T3

Professional High Frequency Transducer

The ND2530T3 is a high performance 2.5-inch diaphragm compression driver with a 1.4 inch exit throat featuring several state of the art technologies. The diaphragm and suspension are precision formed from .05 mm thick pure titanium.

PART NUMBER **15120011**

Features

- 2.5-inch Diaphragm, 1.4-inch Exit Throat/ Pure Titanium Compression Driver
- 180 watt Continuous program power handling
- Frequency range: 700Hz - 20kHz
- Direct Drive™ Voice Coil Assembly
- 3-slot, optimized geometry phase plug
- Aluminum rear cover featuring an advanced vented fin heat dissipation design
- Copper inductance ring for extended response
- Vented, damped, low distortion, variable profile suspension System

Applications

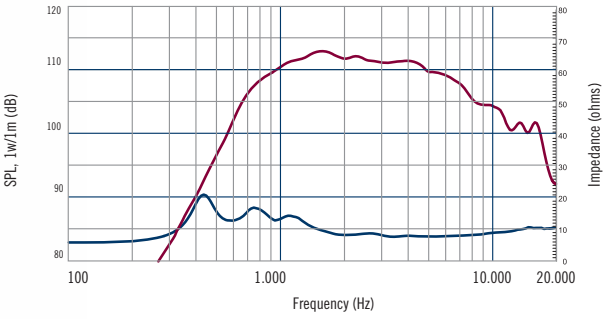
Perfect driver for professional high performance applications, from high power 2-way systems to multiple-way long throw systems and medium to large format line arrays. Very flexible and easy to crossover, offer the clarity of the 1" and the efficiency and power handling of a large format compression driver. Very good linearity and efficiency in combination with RCF HF94 and HF64 horns.

General Specifications

Exit Throat Diameter	35.5/1.4	mm/inch
Rated Impedance	8	ohm
Power handling capacity[1]		
continuous program above 1.2 kHz	180	Watt
AES above 1.0 kHz	90	Watt
Sensitivity 1 W, 1 M, on axis, on horn[2]	110	dB
Frequency Range[3]	700 - 20000	Hz
Diaphragm Material	Pure Titanium	
Suspension Material	Pure Titanium	
Suspension Design	Progressive	
Minimum Impedance	7.9 ohm at 3500 Hz	
Voice Coil Diameter	63.7/2.5	mm/inch
Voice Coil Material	Edgewound Aluminum	
Voice Coil Former Design	Direct drive - Nomex	
Number of layers	1 - Outside	
BL Factor	10.4	T · m
Flux Density	2	T
Phase Plug Design	3 slot	
Phase Plug Material	Aluminum	
Magnetics	Neodymium	
Voice Coil Demodulation	Copper ring	

Mounting Information

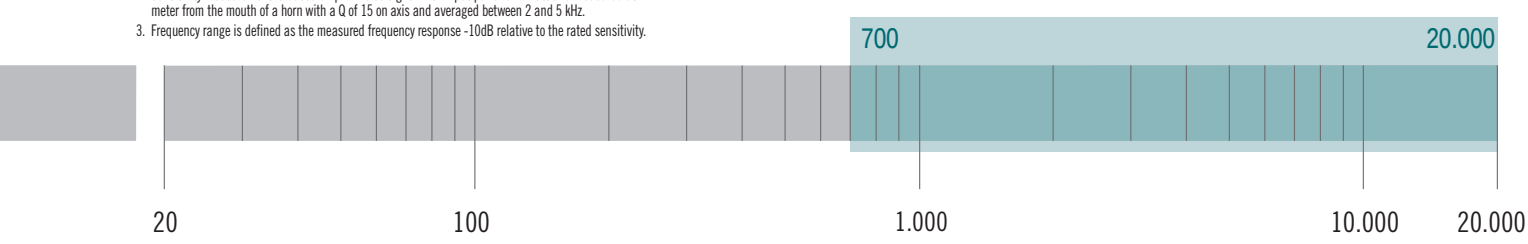
Overall Diameter	123/4.8	mm/inch
Overall Height	69.5/2.7	mm/inch
Mounting		
4 x 6 mm threaded holes at 90 deg.	101.6/4.0	mm/inch
Net Weight	2.1/4.6	kg/Lbs
Shipping Weight	2.3/5.1	kg/Lbs



Frequency response and electrical impedance curve of the compression driver mounted on HF64 horn with input signal of 2.83 Volt.

Notes to Specifications

1. Continuos pink noise power ratings are derived from suggested AES standards sending a pink noise signal having a 6 dB crest factor with a high pass filter set at the specified lower limiting frequency for two hours. Continuos program power is a conservative power rating for reproduction of typical audio program material.
2. Sensitivity measurement is based on pink noise signal with input power of 1 watt and measured at 1 meter from the mouth of a horn with a Q of 15 on axis and averaged between 2 and 5 kHz.
3. Frequency range is defined as the measured frequency response -10dB relative to the rated sensitivity.



DRIVER
ND1710-MT3

Professional High Frequency Transducer

The ND1710-MT3 is a high performance 1.75-inch diaphragm compression driver with a 1.0 inch exit throat featuring several state of the art technologies. The diaphragm is precision formed from .05 mm thick pure titanium. The suspension is based on a vented Mylar design.

PART NUMBER **15120017**

Features

- 1.75-inch Diaphragm, 1.0-inch Exit Throat/ Pure Titanium Compression Driver
- 80 watt Continuous program power handling
- Frequency range: 1000Hz - 20kHz
- 3-slot, optimized geometry phase plug
- Aluminum rear cover featuring an advanced vented fin heat dissipation design
- Copper inductance ring for extended response
- Vented, damped, low distortion suspension system

Applications

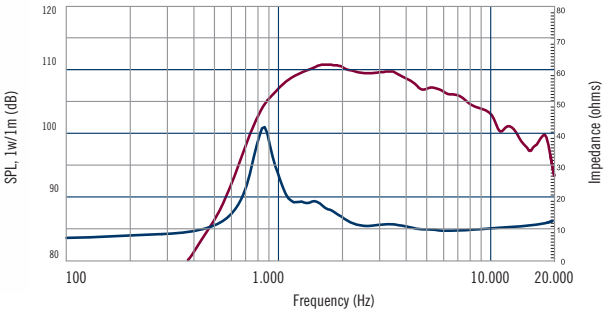
Compact 2-way systems, multiple-way medium throw systems, compact and medium size high quality line arrays. Ideal for use within critical listening applications such as studio monitoring subwoofer systems. Very good linearity in combination with RCF HF94, HF64, HF101 horns.

General Specifications

Exit Throat Diameter	25.4/1	mm/inch
Rated Impedance	8	ohm
Power handling capacity[1]		
continuous program above 1.5 kHz	80	Watt
AES above 1.5 kHz	40	Watt
Sensitivity 1 W, 1 M, on axis, on horn[2]	109	dB
Frequency Range[3]	1000 - 20000	Hz
Diaphragm Material	Pure Titanium	
Suspension Material	Mylar	
Suspension Design	Radial	
Minimum Impedance	9.0 ohm at 6500 Hz	
Voice Coil Diameter	44.4/1.75	mm/inch
Voice Coil Material	Edgewound Aluminum	
Voice Coil Former Design	Straight -Nomex	
Number of layers	1 - Outside	
BL Factor	8.1	T · m
Flux Density	2	T
Phase Plug Design	3 slot	
Phase Plug Material	Composite	
Magnetics	Neodymium	
Voice Coil Demodulation	Copper ring	

Mounting Information

Overall Diameter	102/4.0	mm/inch
Overall Height	60/2.4	mm/inch
Mounting		
4 x 6 mm threaded holes at 90 deg.	76.2/3.0	mm/inch
Net Weight	1.3/2.9	kg/Lbs
Shipping Weight	1.5/3.3	kg/Lbs



Frequency response and electrical impedance curve of the compression driver mounted on HF94 horn with input signal of 2.83 Volt.

Notes to Specifications

1. Continuos pink noise power ratings are derived from suggested AES standards sending a pink noise signal having a 6 dB crest factor with a high pass filter set at the specified lower limiting frequency for two hours. Continuos program power is a conservative power rating for reproduction of typical audio program material.
2. Sensitivity measurement is based on pink noise signal with input power of 1 watt and measured at 1 meter from the mouth of a horn with a Q of 15 on axis and averaged between 2 and 5 kHz.
3. Frequency range is defined as the measured frequency response -10dB relative to the rated sensitivity.

DRIVER
ND850 2.0

Professional High Frequency Transducer

The ND850 2.0 is a high performance 3.0-inch diaphragm compression driver with a 2 inch exit throat featuring several state of the art technologies. The diaphragm are precision formed from pure titanium. The suspension is based on a vented and damped design in order to provide low distorsion. Voice coil assembly is designed using high temperature kapton former.

PART NUMBER **15129037**

Features

- 3-inch Diaphragm, 2-inch Exit Throat/ Pure Titanium Compression Driver
- 220 watt Continuous program power handling
- Frequency range: 500Hz - 20kHz
- 3-slot, optimized geometry phase plug
- Titanium diaphragm
- Copper inductance ring for extended response
- Vented, damped, low distortion suspension System
- Neodymium magnet assembly

Applications

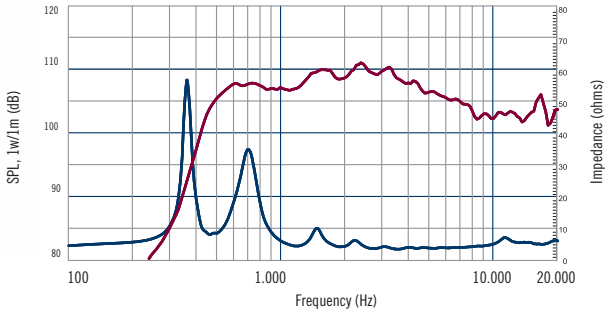
The ND850 2.0 is the ideal driver for professional high performance applications, from high power 2-way systems to multiple-way long throw systems. Very good linearity and efficiency in combination with RCF H6040 horn.

General Specifications

Exit Throat Diameter	50/2	mm/inch
Rated Impedance	8	ohm
Power handling capacity[1]		
continuous program above 1.2 kHz	220	Watt
AES above 1.0 kHz	110	Watt
Sensitivity 1 W, 1 M, on axis, on horn[2]	109	dB
Frequency Range[3]	500 - 20000	Hz
Diaphragm Material	Pure Titanium	
Suspension Material	Polyester	
Suspension Design	Flat	
Minimum Impedance	8.5 ohm at 3500 Hz	
Voice Coil Diameter	74.4/3.0	mm/inch
Voice Coil Material	Edgewound Aluminum	
Voice Coil Former Design	Straight Kapton	
Number of layers	1 - Outside	
BL Factor	13	T · m
Flux Density	2.05	T
Phase Plug Design	3 slot	
Phase Plug Material	Aluminum	
Magnetics	Neodymium	
Voice Coil Demodulation	Copper ring	

Mounting Information

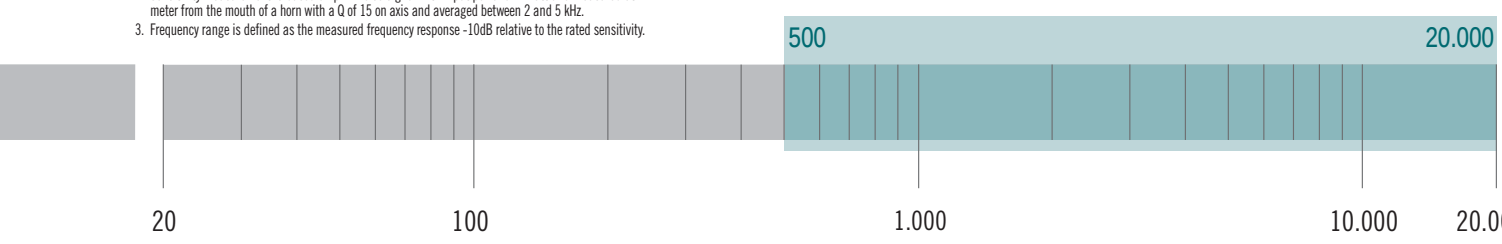
Overall Diameter	131/5.2	mm/inch
Overall Height	88/3.5	mm/inch
Mounting		
4 x 6 mm threaded holes at 180 deg.	101.6/4.0	mm/inch
Net Weight	2.7/5.9	kg/Lbs
Shipping Weight	3.0/6.6	kg/Lbs



Frequency response and electrical impedance curve of the compression driver mounted on 90 °H x 40 °V horn with input signal of 2.83 Volt.

Notes to Specifications

1. Continuos pink noise power ratings are derived from suggested AES standards sending a pink noise signal having a 6 dB crest factor with a high pass filter set at the specified lower limiting frequency for two hours. Continuos program power is a conservative power rating for reproduction of typical audio program material.
2. Sensitivity measurement is based on pink noise signal with input power of 1 watt and measured at 1 meter from the mouth of a horn with a Q of 15 on axis and averaged between 2 and 5 kHz.
3. Frequency range is defined as the measured frequency response -10dB relative to the rated sensitivity.



DRIVER
ND850 1.4

Professional High Frequency Transducer

The ND850 is a high performance 3.0-inch diaphragm compression driver with a 1.4 inch exit throat featuring several state of the art technologies. The diaphragm are precision formed from pure titanium. The suspension is based on a vented and damped design in order to provide low distorsion. Voice coil assembly is designed using high temperature kapton former.

PART NUMBER **15129022**

Features

- 3-inch Diaphragm, 1.4-inch Exit Throat/ Pure Titanium Compression Driver
- 220 watt Continuous program power handling
- Frequency range: 500Hz - 20kHz
- 3-slot, optimized geometry phase plug
- Titanium diaphragm
- Copper inductance ring for extended response
- Vented, damped, low distortion suspension System
- Neodymium magnet assembly

Applications

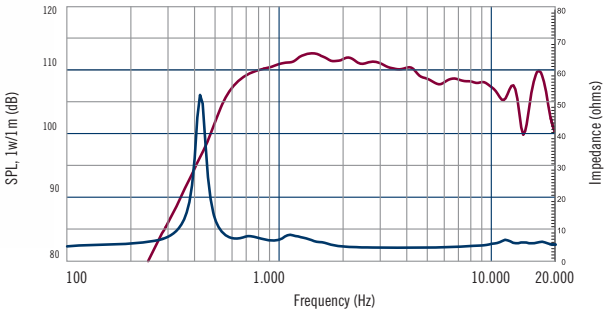
The ND850 is the ideal driver for professional high performance applications, from high power 2-way systems to multiple-way long throw systems and large format line arrays. Very good linearity and efficiency in combination with RCF HF94 and HF64 horns.

General Specifications

Exit Throat Diameter	35.5/1.4	mm/inch
Rated Impedance	8	ohm
Power handling capacity[1]		
continuous program above 1.2 kHz	220	Watt
AES above 1.0 kHz	110	Watt
Sensitivity 1 W, 1 M, on axis, on horn[2]	109	dB
Frequency Range[3]	500 - 20000	Hz
Diaphragm Material	Pure Titanium	
Suspension Material	Polyester	
Suspension Design	Flat	
Minimum Impedance	8.5 ohm at 3500 Hz	
Voice Coil Diameter	74.4/3.0	mm/inch
Voice Coil Material	Edgewound Aluminum	
Voice Coil Former Design	Straight Kapton	
Number of layers	1 - Outside	
BL Factor	13	T · m
Flux Density	2.05	T
Phase Plug Design	3 slot	
Phase Plug Material	Aluminum	
Magnetics	Neodymium	
Voice Coil Demodulation	Copper ring	

Mounting Information

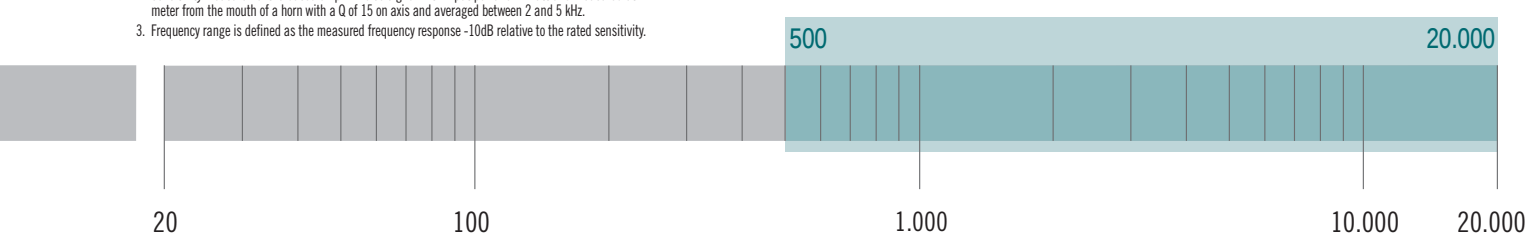
Overall Diameter	131/5.2	mm/inch
Overall Height	54/2.1	mm/inch
Mounting		
4 x 6 mm threaded holes at 180 deg.	101.6/4.0	mm/inch
Net Weight	2.5/5.5	kg/Lbs
Shipping Weight	2.8/6.1	kg/Lbs



Frequency response and electrical impedance curve of the compression driver mounted on HF64 horn with input signal of 2.83 Volt.

Notes to Specifications

1. Continuos pink noise power ratings are derived from suggested AES standards sending a pink noise signal having a 6 dB crest factor with a high pass filter set at the specified lower limiting frequency for two hours. Continuos program power is a conservative power rating for reproduction of typical audio program material.
2. Sensitivity measurement is based on pink noise signal with input power of 1 watt and measured at 1 meter from the mouth of a horn with a Q of 15 on axis and averaged between 2 and 5 kHz.
3. Frequency range is defined as the measured frequency response -10dB relative to the rated sensitivity.



DRIVER
ND650

Professional High Frequency Transducer

The ND650 is a high performance 2.5-inch diaphragm compression driver with a 1.4 inch exit throat featuring several state of the art technologies. The diaphragm are precision formed from pure titanium. The suspension is based on a vented Polyester design for low distorsion. Voice coil assembly is designed using high temperature kapton former.

PART NUMBER **15129024**

Features

- 2.5-inch Diaphragm, 1.4-inch Exit Throat/ Pure Titanium Compression Driver
- 180 watt Continuous program power handling
- Frequency range: 500Hz - 20kHz
- 3-slot, optimized geometry phase plug
- Titanium diaphragm
- Copper inductance ring for extended response
- Vented, damped, low distortion suspension System
- Neodymium magnet assembly

Applications

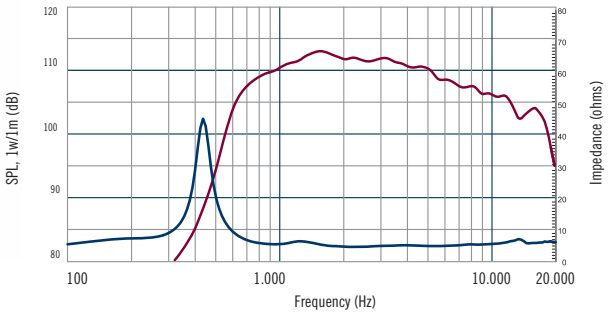
Perfect driver for professional high performance applications, from high power 2-way systems to multiple-way long throw systems and medium to large format line arrays. Very flexible and easy to crossover, offer the clarity of the 1" and the efficiency and power handling of a large format compression driver. Very good linearity and efficiency in combination with RCF HF94 and HF64 horns.

General Specifications

Exit Throat Diameter	35.5/1.4	mm/inch
Rated Impedance	8	ohm
Power handling capacity[1]		
continuous program above 1.2 kHz	180	Watt
AES above 1.0 kHz	90	Watt
Sensitivity 1 W, 1 M, on axis, on horn[2]	110	dB
Frequency Range[3]	700 - 20000	Hz
Diaphragm Material	Pure Titanium	
Suspension Material	Polyester	
Suspension Design	Flat	
Minimum Impedance	7.5 ohm at 2500 Hz	
Voice Coil Diameter	63.7/2.5	mm/inch
Voice Coil Material	Edgewound Aluminum	
Voice Coil Former Design	Straight Kapton	
Number of layers	1 - Outside	
BL Factor	10.4	T · m
Flux Density	2	T
Phase Plug Design	3 slot	
Phase Plug Material	Aluminum	
Magnetics	Neodymium	
Voice Coil Demodulation	Copper ring	

Mounting Information

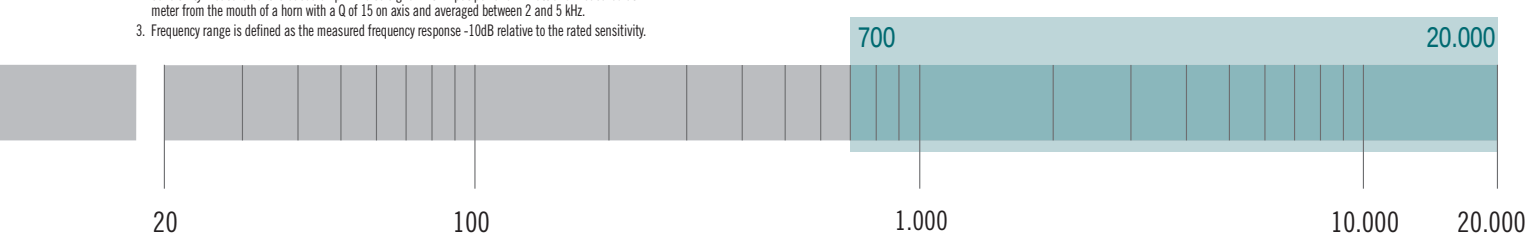
Overall Diameter	115/4.5	mm/inch
Overall Height	46/1.8	mm/inch
Mounting		
4 x 6 mm threaded holes at 180 deg.	101.6/4.0	mm/inch
Net Weight	1.8/3.9	kg/Lbs
Shipping Weight	2.1/4.6	kg/Lbs



Frequency response and electrical impedance curve of the compression driver mounted on HF64 horn with input signal of 2.83 Volt.

Notes to Specifications

1. Continuos pink noise power ratings are derived from suggested AES standards sending a pink noise signal having a 6 dB crest factor with a high pass filter set at the specified lower limiting frequency for two hours. Continuos program power is a conservative power rating for reproduction of typical audio program material.
2. Sensitivity measurement is based on pink noise signal with input power of 1 watt and measured at 1 meter from the mouth of a horn with a Q of 15 on axis and averaged between 2 and 5 kHz.
3. Frequency range is defined as the measured frequency response -10dB relative to the rated sensitivity.



DRIVER
ND550

Professional High Frequency Transducer

The ND550 is a high performance 1.75-inch diaphragm compression driver with a 1.0 inch exit throat featuring several state of the art technologies. The diaphragm is precision formed from pure titanium. The suspension is based on a vented Polyester design for low distorsion. Voice coil assembly is designed using high temperature kapton former.

PART NUMBER **15129025**

Features

- 1.75-inch Diaphragm, 1.0-inch Exit Throat/ Pure Titanium Compression Driver
- 100 watt Continuous program power handling
- Frequency range: 1200Hz - 20kHz
- 3-slot, optimized geometry phase plug
- Titanium diaphragm
- Copper inductance ring for extended response
- Vented, damped, low distortion suspension system
- Neodymium magnet assembly

Applications

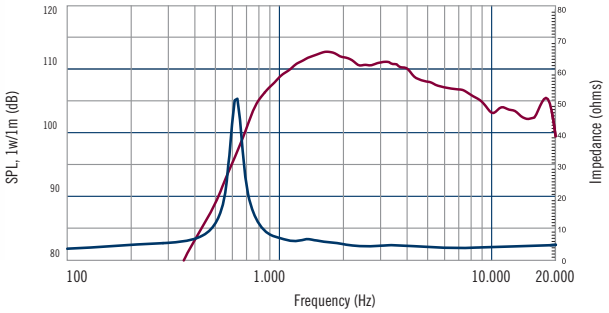
Compact 2-way systems, multiple-way medium throw systems, compact and medium size high quality line arrays. Ideal for use within critical listening applications such as studio monitoring subwoofer systems. Very good linearity in combination with RCF HF94, HF64, HF101, H100 horns.

General Specifications

Exit Throat Diameter	25.4/1	mm/inch
Rated Impedance	8	ohm
Power handling capacity[1]		
continuous program above 1.5 kHz	100	Watt
AES above 1.5 kHz	50	Watt
Sensitivity 1 W, 1 M, on axis, on horn[2]	109	dB
Frequency Range[3]	1200 - 20000	Hz
Diaphragm Material	Pure Titanium	
Suspension Material	Polyester	
Suspension Design	Flat	
Minimum Impedance	7,5 ohm at 2500 Hz	
Voice Coil Diameter	44.4/1.75	mm/inch
Voice Coil Material	Edgewound Aluminum	
Voice Coil Former Design	Straight -Kapton	
Number of layers	1 - Outside	
BL Factor	8.1	T · m
Flux Density	2	T
Phase Plug Design	3 slot	
Phase Plug Material	Composite	
Magnetics	Neodymium	
Voice Coil Demodulation	Copper ring	

Mounting Information

Overall Diameter	90/3.5	mm/inch
Overall Height	47/1.8	mm/inch
Mounting		
4 x 6 mm threaded holes at 180 deg.	76.2/3.0	mm/inch
Net Weight	1.0/2.2	kg/Lbs
Shipping Weight	1.2/2.6	kg/Lbs



Frequency response and electrical impedance curve of the compression driver mounted on HF94 horn with input signal of 2.83 Volt.

Notes to Specifications

1. Continuos pink noise power ratings are derived from suggested AES standards sending a pink noise signal having a 6 dB crest factor with a high pass filter set at the specified lower limiting frequency for two hours. Continuos program power is a conservative power rating for reproduction of typical audio program material.
2. Sensitivity measurement is based on pink noise signal with input power of 1 watt and measured at 1 meter from the mouth of a horn with a Q of 15 on axis and averaged between 2 and 5 kHz.
3. Frequency range is defined as the measured frequency response -10dB relative to the rated sensitivity.

DRIVER
ND350

Professional High Frequency Transducer

The ND350 is a high performance 1.75-inch diaphragm neodymium compression driver with a 1.0 inch exit throat. The diaphragm is precision formed from polyester. The voice coil assembly is designed using high temperature Kapton former, rectangular profile copper clad aluminum wire and assembled using advanced, specially formulated adhesives.

PART NUMBER **15129027**

Features

- 1.75-inch Diaphragm, 1.0-inch Exit Throat
- 100 watt Continuous program power handling
- Frequency range: 1200Hz - 20kHz
- 2-slot, optimised geometry phase plug
- Polyester diaphragm
- Vented suspension system
- Compact neodymium magnet assembly

Applications

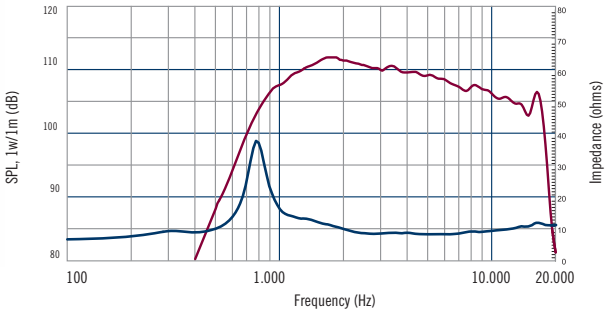
The ND350 is a very compact size compression driver for professional applications. Compact 2-way systems, multiple-way systems, compact arrays. Flexible and easy to crossover, offer high efficiency combined to a very high frequency extension. Very good in combination with RCF HF94, HF64, H100, HF101 horns.

General Specifications

Exit Throat Diameter	25.4/1	mm/inch
Rated Impedance	8	ohm
Power handling capacity[1]		
continuous program above 1.5 kHz	100	Watt
AES above 1.5 kHz	50	Watt
Sensitivity 1 W, 1 M, on axis, on horn[2]	109	dB
Frequency Range[3]	1200 - 20000	Hz
Diaphragm Material	Polyester	
Suspension Material	Polyester	
Suspension Design	Flat	
Minimum Impedance	6,5 ohm at 4500 Hz	
Voice Coil Diameter	44.4/1.75	mm/inch
Voice Coil Material	Edgewound Aluminum	
Voice Coil Former Design	Straight -Kapton	
Number of layers	1 - Outside	
BL Factor	7.5	T · m
Flux Density	1.8	T
Phase Plug Design	2 slot	
Phase Plug Material	Composite	
Magnetics	Neodymium	
Voice Coil Demodulation	-	

Mounting Information

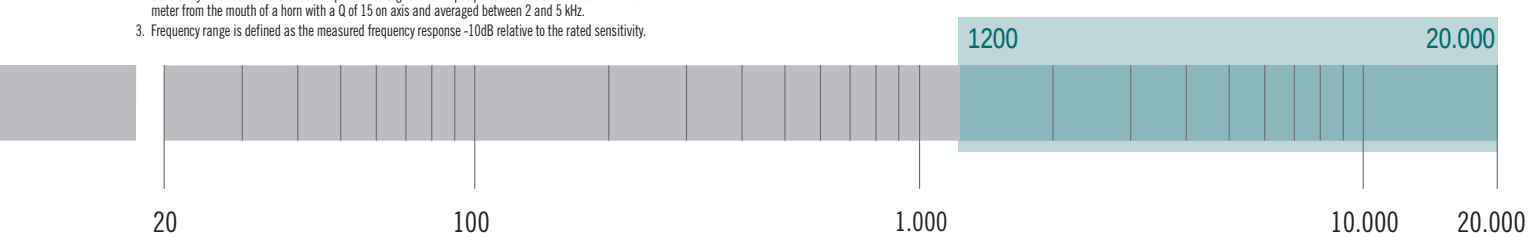
Overall Diameter	85/3.3	mm/inch
Overall Height	43/1.8	mm/inch
Mounting		
2 x 6 mm threaded holes at 180 deg.	76.2/3.0	mm/inch
Net Weight	0.8/1.8	kg/Lbs
Shipping Weight	1.0/2.2	kg/Lbs



Frequency response and electrical impedance curve of the compression driver mounted on HF94 horn with input signal of 2.83 Volt.

Notes to Specifications

1. Continuos pink noise power ratings are derived from suggested AES standards sending a pink noise signal having a 6 dB crest factor with a high pass filter set at the specified lower limiting frequency for two hours. Continuos program power is a conservative power rating for reproduction of typical audio program material.
2. Sensitivity measurement is based on pink noise signal with input power of 1 watt and measured at 1 meter from the mouth of a horn with a Q of 15 on axis and averaged between 2 and 5 kHz.
3. Frequency range is defined as the measured frequency response -10dB relative to the rated sensitivity.



HORN DRIVER
ND350-H

Professional High Frequency Transducer

The new ND350-H is a compact 1.75-inch diaphragm neodymium compression driver directly coupled with a 90° x 40° constant directivity high frequency horn. This new transducer is very light weight for professional applications such as: compact two-way systems or multiple way systems. Flexible and easy to crossover, it offers high effi ciency combined to a very high frequency extension.

PART NUMBER **15129031**

Features

- 1.75-inch Diaphragm
- 100 watt Continuous program power handling
- Frequency range: 1200Hz - 20kHz
- 2-slot, optimised geometry phase plug
- Light structure
- 90° x 40° Constant Directivity Coverage
- Perfectly Controlled Dispersion
- Compact neodymium magnet assembly

Applications

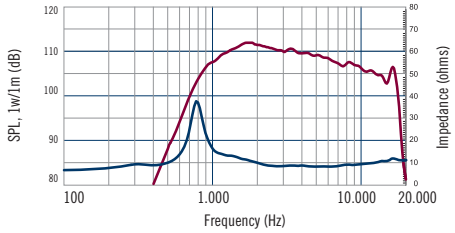
The ND350-H is a very light high frequency transducer for professional application. Compact 2-way systems, multiple-way systems. Flexible and easy to crossover, offer high efficiency combined to a very high frequency extension.

General Specifications

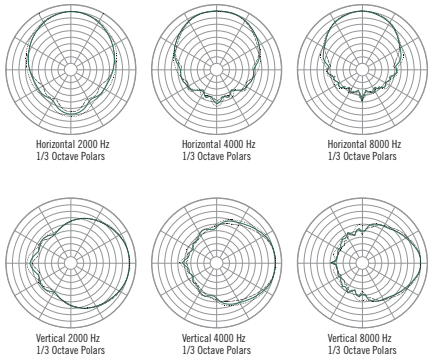
Nominal Coverage (-6dB)	90° x 40°	
Rated Impedance	8	ohm
Power handling capacity[1]		
continuous program above 1.5 kHz	100	Watt
AES above 1.5 kHz	50	Watt
Sensitivity 1 W, 1 M, on axis, on horn[2]	109	dB
Frequency Range[3]	1200 - 20000	Hz
Diaphragm Material	Polyester	
Minimum Impedance	6,5 ohm at 4500 Hz	
Voice Coil Diameter	44.4/1.75	mm/inch
BL Factor	7.5	T · m
Magnetics	Neodymium	
Horn Material	Structural Polyuretane	

Mounting Information

Overall Diameter	245x245	mm
Baffle Cut-out Dimensions	200x200	mm
Total Depth	185	mm
Net Weight	1,6	kg/Lbs
Shipping Weight	2,1	kg/Lbs

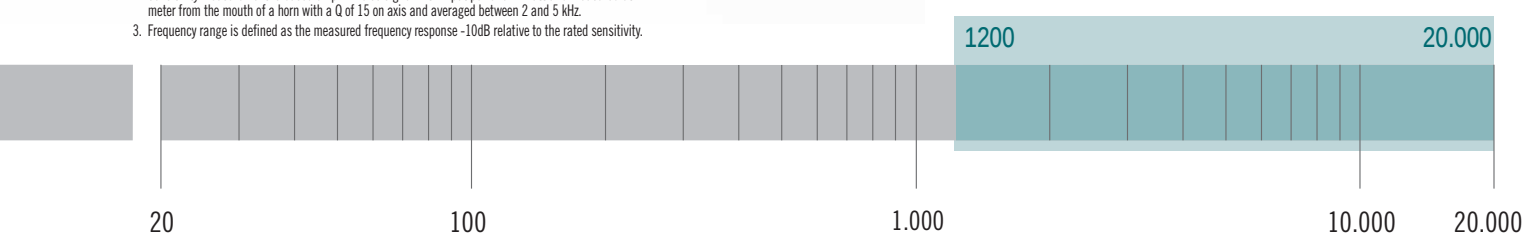


Frequency response and electrical impedance curve of the compression driver mounted on HF94 horn with input signal of 2.83 Volt.



Notes to Specifications

1. Continuos pink noise power ratings are derived from suggested AES standards sending a pink noise signal having a 6 dB crest factor with a high pass filter set at the specified lower limiting frequency for two hours. Continuos program power is a conservative power rating for reproduction of typical audio program material.
2. Sensitivity measurement is based on pink noise signal with input power of 1 watt and measured at 1 meter from the mouth of a horn with a Q of 15 on axis and averaged between 2 and 5 kHz.
3. Frequency range is defined as the measured frequency response -10dB relative to the rated sensitivity.



DRIVER
ND1411-M

Professional High Frequency Transducer

The ND1411-M is a high performance 1.5-inch diaphragm compression driver with a 1.0 inch exit throat featuring a single piece, low compression, radial phase plug. The diaphragm and suspension are precision formed from .10 mm thick Mylar. The ND1411-M is a very compact size, versatile driver for professional applications.

PART NUMBER **15129019**

Features

- 1.5-inch Diaphragm, 1.0-inch Exit Throat
- 50 watt Continuous program power handling
- Frequency range: 1500Hz - 20kHz
- Optimized geometry radial phase plug
- Very compact size for array applications
- Neodymium magnet assembly

Applications

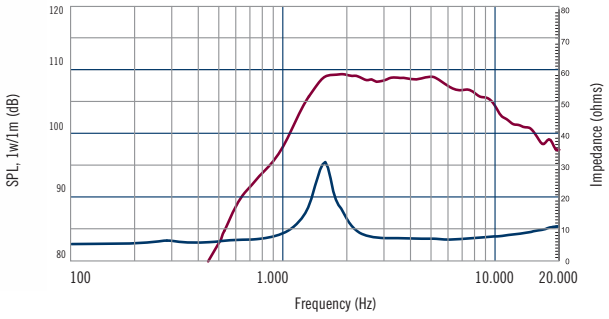
Compact 2-way systems, multiple-way medium throw systems, compact and medium size high quality line arrays. Unique driver in the market offering high power handling in 70 mm diameter. Very good linearity in combination with RCF HF94, HF64, HF101 horns.

General Specifications

Exit Throat Diameter	25.4	mm/inch
Rated Impedance	8	ohm
Power handling capacity[1]		
continuous program above 1.7 kHz	50	Watt
AES above 1.7 kHz	25	Watt
Sensitivity 1 W, 1 M, on axis, on horn[2]	109	dB
Frequency Range[3]	1500 - 20000	Hz
Diaphragm Material	Mylar	
Suspension Material	Mylar	
Suspension Design	Radial	
Minimum Impedance	7.0 ohm at 6000 Hz	
Voice Coil Diameter	35.5/1.5	mm/inch
Voice Coil Material	Edgewound aluminum	
Voice Coil Former Design	Straight - Nomex	
Number of layers	1 - Outside	
BL Factor	4.4	T · m
Flux Density	1.75	T
Phase Plug Design	10 radial slots	
Phase Plug Material	Composite	
Magnetics	Neodymium	
Voice Coil Demodulation		

Mounting Information

Overall Diameter	69/2.7	mm/inch
Overall Height	51/2.0	mm/inch
Mounting		
4 x 5 mm holes at 90 deg.	76.2/3.0	mm/inch
Net Weight	0.8/1.8	kg/Lbs
Shipping Weight	1.0/2.2	kg/Lbs



Frequency response and electrical impedance curve of the compression driver mounted on HF94 horn with input signal of 2.83 Volt.

Notes to Specifications

1. Continuos pink noise power ratings are derived from suggested AES standards sending a pink noise signal having a 6 dB crest factor with a high pass filter set at the specified lower limiting frequency for two hours. Continuos program power is a conservative power rating for reproduction of typical audio program material.
2. Sensitivity measurement is based on pink noise signal with input power of 1 watt and measured at 1 meter from the mouth of a horn with a Q of 15 on axis and averaged between 2 and 5 kHz.
3. Frequency range is defined as the measured frequency response -10dB relative to the rated sensitivity.

HORN DRIVER
ND1411-H

Professional High Frequency Transducer

The new ND1411-H is a compact 1.5-inch diaphragm neodymium compression driver directly coupled with a 90° x 70° constant directivity high frequency horn. The ND1411-H is a very light and versatile driver for professional applications such as compact two-way systems or multiple-way medium throw systems.

PART NUMBER **15129032**

Features

- 1.5-inch Diaphragm
- 50 watt Continuous program power handling
- Frequency range: 1500Hz - 20kHz
- Optimized geometry radial phase plug
- 90° x 70° Constant Directivity Coverage
- Neodymium magnet assembly
- Perfectly Controlled Dispertion

Applications

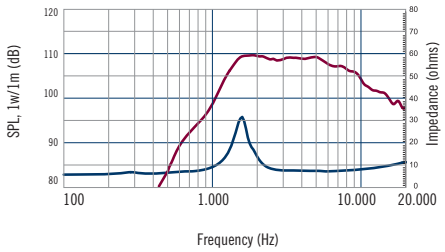
Compact 2-way systems, multiple-way medium throw systems, compact and medium size high quality line arrays. Unique driver in the market offering high power handling in 70 mm diameter. Very good linearity in combination with RCF HF94, HF64, HF101 horns.

General Specifications

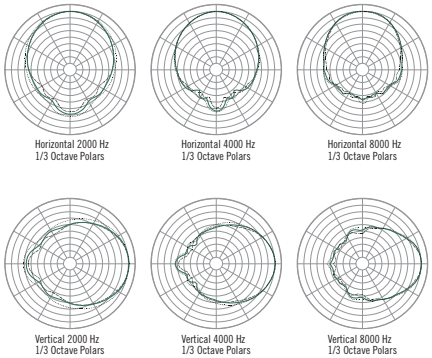
Nominal Coverage (-6dB)	90°x70°	
Rated Impedance	8	ohm
Power handling capacity[1]		
continuous program above 1.7 kHz	50	Watt
AES above 1.7 kHz	25	Watt
Sensitivity 1 W, 1 M, on axis, on horn[2]	109	dB
Frequency Range[3]	1500 - 20000	Hz
Diaphragm Material	Mylar	
Minimum Impedance	7.0 ohm at 6000 Hz	
Voice Coil Diameter	35.5/1.5	mm/inch
BL Factor	4.4	T · m
Magnetics	Neodymium	
Horn material	Structural polyuretane	

Mounting Information

Overall Diameter	180x180	mm
Baffle Cut-out Dimensions	146x146	mm
Total Depth	1550.8/1.8	mm
Net Weight	1	kg
Shipping Weight	1.3	kg



Frequency response curve of the horn measured on axis at distance of 1 meter with1 watt signal, in an anechoic environment, with ND1411-M compression driver.



Notes to Specifications

1. Continuos pink noise power ratings are derived from suggested AES standards sending a pink noise signal having a 6 dB crest factor with a high pass filter set at the specified lower limiting frequency for two hours. Continuos program power is a conservative power rating for reproduction of typical audio program material.
2. Sensitivity measurement is based on pink noise signal with input power of 1 watt and measured at 1 meter from the mouth of a horn with a Q of 15 on axis and averaged between 2 and 5 kHz.
3. Frequency range is defined as the measured frequency response -10dB relative to the rated sensitivity.

HIGH FREQUENCY **TRANSDUCERS**

Technology and craftsmanship. At RCF each professional compression driver is precision built using the most advanced moulding and assembly technologies and our experienced dedication and attention.

PURE TITANIUM **DIAPHRAGMS**

RCF has developed an oxygen free process of moulding pure titanium ultra thin films in high quality, finely controlled shaped diaphragms. Our process offers superior sonic quality, extended to the highest audible frequencies which guarantee consistent power handling and reliability.

PHASE **PLUGS**

Our compression drivers features 3-slot, 2-slot and radial optimized geometry phase plug designs. Extensive computer assisted mathematical modelling and testing has resulted in phase plug geometries that provide balanced acoustic performance by controlling and lowering air distortion and maximizing output. The use of a lower slot compression ratio results in higher acoustic output with smoother frequency response and lower harmonic distortion.

EDGE-WOUND **COILS TECHNOLOGY**

Edge-wound “flat wire” voice coils are a hallmark of advanced manufacturing. RCF internally produces all the flat wire voice coils used in compression drivers. To guarantee the ultimate level of performance and reliability, maximum care in material selection and process design is combined to extensive use of quality control and power testing procedures.
Each driver is thoroughly tested for frequency response, impedance and distortion with DSP enabled digital testing equipment. The result is a robust device capable of withstanding the rigors of modern loudspeaker system applications.

DRIVER
N850

Professional High Frequency Transducer

The N850 is a high quality 3.0-inch diaphragm compression driver with a 2 inch exit. The diaphragm is precision formed from .05 mm thick pure titanium. The suspension is based on a Mylar vented design. The front aluminum adaptor guarantee a very smooth transition from the phase plug to the 2" output interface.

PART NUMBER **15120058**

Features

- 3-inch Diaphragm, 2.0-inch Exit Throat Titanium Compression Driver
- 180 watt Continuous program power handling
- Frequency range: 500Hz - 20kHz
- 3-slot, optimized geometry phase plug
- Aluminum rear cover and front adaptor
- Copper inductance ring for extended response
- Vented suspension system

Applications

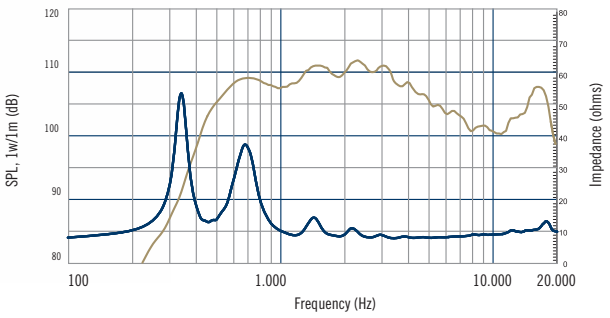
The N850 is a compression driver for professional applications, from high power 2-way systems to multiple-way long throw systems and large format arrays. Very good linearity and efficiency in combination with RCF H6040 horn (60 X 40 degrees dispersion).

General Specifications

Exit Throat Diameter	50.8/ 2	mm/inch
Rated Impedance	8	ohm
Power handling capacity[1]		
continuous program above 1.2 kHz	180	Watt
AES above 1 kHz	90	Watt
Sensitivity 1 W, 1 M, on axis, on horn[2]	109	dB
Frequency Range[3]	500 - 20000	Hz
Diaphragm Material	Pure Titanium	
Suspension Material	Mylar	
Suspension Design	Radial	
Minimum Impedance	8.8 ohm at 3500 Hz	
Voice Coil Diameter	74.4/3.0	mm/inch
Voice Coil Material	Edgewound aluminum	
Voice Coil Former Design	Straight -Kapton	
Number of layers	1 - Outside	
BL Factor	12	T · m
Flux Density	1.85	T
Phase Plug Design	3 slot	
Phase Plug Material	Composite	
Magnetics	Ceramic	
Voice Coil Demodulation	Copper ring	

Mounting Information

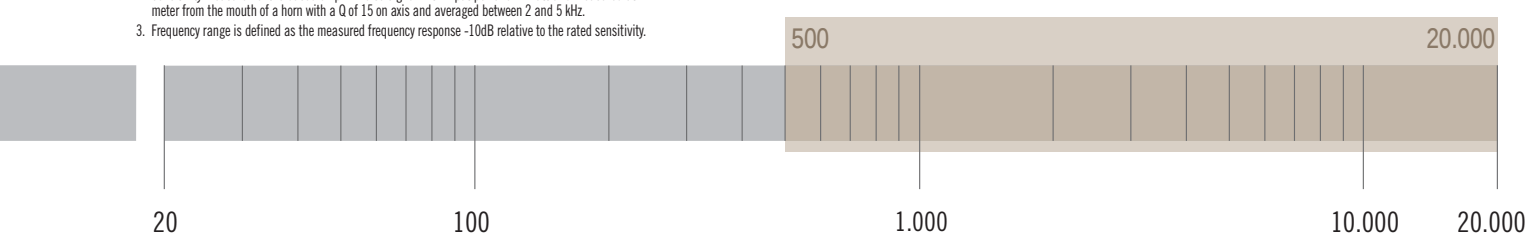
Overall Diameter	180/.1	mm/inch
Overall Height	95/3.7	mm/inch
Mounting		
4 x 6 mm threaded holes at 90 deg.	101.6/4.0	mm/inch
Net Weight	4.7/10.3	kg/Lbs
Shipping Weight	5/11.0	kg/Lbs



Frequency response and electrical impedance curve of the compression driver mounted on 90°H x 40°V horn with input signal of 2.83 Volt.

Notes to Specifications

1. Continuos pink noise power ratings are derived from suggested AES standards sending a pink noise signal having a 6 dB crest factor with a high pass filter set at the specified lower limiting frequency for two hours. Continuos program power is a conservative power rating for reproduction of typical audio program material.
2. Sensitivity measurement is based on pink noise signal with input power of 1 watt and measured at 1 meter from the mouth of a horn with a Q of 15 on axis and averaged between 2 and 5 kHz.
3. Frequency range is defined as the measured frequency response -10dB relative to the rated sensitivity.



DRIVER
N450

Professional High Frequency Transducer

The N450 features 1.75-inch diaphragm with a 1.0 inch exit throat. The diaphragm is precision formed from .05 mm thick pure titanium. The suspension is based on a vented Mylar design. The N450 is a versatile driver for professional applications.

PART NUMBER **15120057**

Features

- 1.75-inch Diaphragm, 1.0-inch Exit Throat Titanium Compression Driver
- 100 watt Continuous program power handling
- Frequency range: 1000Hz - 20kHz
- 2-slot, optimized geometry phase plug
- Aluminum rear cover
- Copper inductance ring for extended response
- Vented suspension system

Applications

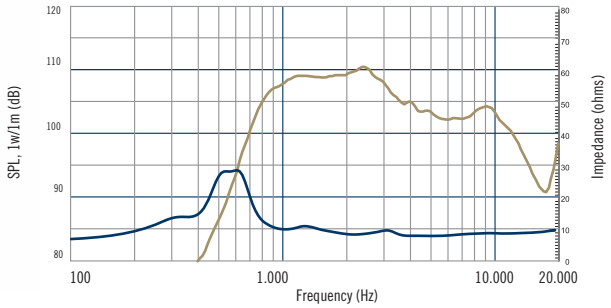
Compact 2-way systems, multiple-way medium throw systems. Flexible and easy to crossover, offer precision and definition combined to a very good power handling for the size. Very good in combination with RCF H100, HF101, HF94, HF64 horns.

General Specifications

Exit Throat Diameter	25.4/1	mm/inch
Rated Impedance	8	ohm
Power handling capacity[1]		
continuous program above 1.2 kHz	100	Watt
AES above 1.5 kHz	50	Watt
Sensitivity 1 W, 1 M, on axis, on horn[2]	107	dB
Frequency Range[3]	1000 - 20000	Hz
Diaphragm Material	Pure Titanium	
Suspension Material	Mylar	
Suspension Design	Radial	
Minimum Impedance	8.0 ohm at 4000 Hz	
Voice Coil Diameter	44.4/1.75	mm/inch
Voice Coil Material	Edgewound aluminum	
Voice Coil Former Design	Straight -Kapton	
Number of layers	1 - Outside	
BL Factor	6.7	T · m
Flux Density	1.6	T
Phase Plug Design	2 slot	
Phase Plug Material	Composite	
Magnetics	Ceramic	
Voice Coil Demodulation	Copper ring	

Mounting Information

Overall Diameter	134/5.3	mm/inch
Overall Height	70/2.8	mm/inch
2 x 6 mm threaded holes at 180 deg.	76.0/3.0	mm/inch
3 x 6 mm threaded holes at 120 deg.	58.0/2.3	mm/inch
Net Weight	2.8/6.2	kg/Lbs
Shipping Weight	3.1/6.8	kg/Lbs



Frequency response and electrical impedance curve of the compression driver mounted on H100 horn with input signal of 2.83 Volt.

Notes to Specifications

1. Continuos pink noise power ratings are derived from suggested AES standards sending a pink noise signal having a 6 dB crest factor with a high pass filter set at the specified lower limiting frequency for two hours. Continuos program power is a conservative power rating for reproduction of typical audio program material.
2. Sensitivity measurement is based on pink noise signal with input power of 1 watt and measured at 1 meter from the mouth of a horn with a Q of 15 on axis and averaged between 2 and 5 kHz.
3. Frequency range is defined as the measured frequency response -10dB relative to the rated sensitivity.

DRIVER
N350

Professional High Frequency Transducer

The N350 features 1.75-inch diaphragm with a 1.0 inch exit throat. The diaphragm and suspension are precision formed from .125 mm thick Mylar design. The voice coil assembly is designed using high temperature Kapton former, rectangular profile copper clad aluminum wire and assembled using advanced, specially formulated adhesives.

PART NUMBER **15120056**

Features

- 1.75-inch Diaphragm, 1.0-inch Exit Throat
- 80 watt Continuous program power handling
- Frequency range: 1500Hz - 20kHz
- 2-slot, optimized geometry phase plug
- Aluminum rear cover
- Vented suspension system

Applications

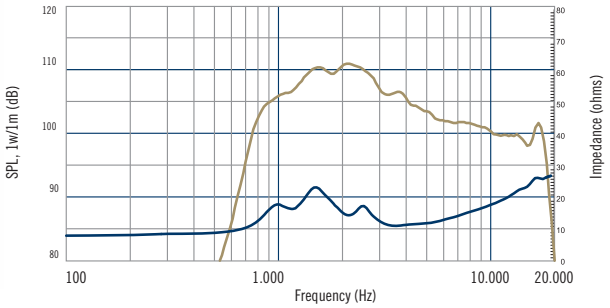
The N350 is a compact size compression driver for professional applications. Compact 2-way systems, multiple-way systems, compact arrays.
Flexible and easy to crossover, offer high efficiency combined to a very high frequency extension. Very good in combination with RCF H100, HF101, HF94, HF64 horns.

General Specifications

Exit Throat Diameter	25.4/1	mm/inch
Rated Impedance	8	ohm
Power handling capacity[1]		
continuous program above 1.2 kHz	80	Watt
AES above 1.5 kHz	40	Watt
Sensitivity 1 W, 1 M, on axis, on horn[2]	107	dB
Frequency Range[3]	1500 - 20000	Hz
Diaphragm Material	Mylar	
Suspension Material	Mylar	
Suspension Design	Radial	
Minimum Impedance	8.3 ohm at 3500 Hz	
Voice Coil Diameter	44.4/1.75	mm/inch
Voice Coil Material	Edgewound aluminum	
Voice Coil Former Design	Straight -Kapton	
Number of layers	1 - Outside	
BL Factor	5.9	T · m
Flux Density	1.4	T
Phase Plug Design	2 slot	
Phase Plug Material	Composite	
Magnetics	Ceramic	
Voice Coil Demodulation	-	

Mounting Information

Overall Diameter	102/4.0	mm/inch
Overall Height	60/2.4	mm/inch
Mounting		mm/inch
2 x 6 mm threaded holes at 180 deg.	76.2/3.0	mm/inch
Net Weight	1.4/3.1	kg/Lbs
Shipping Weight	1.7/3.7	kg/Lbs



Frequency response and electrical impedance curve of the compression driver mounted on H100 horn with input signal of 2.83 Volt.

Notes to Specifications

1. Continuos pink noise power ratings are derived from suggested AES standards sending a pink noise signal having a 6 dB crest factor with a high pass filter set at the specified lower limiting frequency for two hours. Continuos program power is a conservative power rating for reproduction of typical audio program material.
2. Sensitivity measurement is based on pink noise signal with input power of 1 watt and measured at 1 meter from the mouth of a horn with a Q of 15 on axis and averaged between 2 and 5 kHz.
3. Frequency range is defined as the measured frequency response -10dB relative to the rated sensitivity.

HIGH FREQUENCY **HORNS**

The same coverage angle at all frequencies, compact size and strong, resonance free, mechanical structures for accurate voice and transparent sound. All of them designed for 90° rotation.

ALUMINUM BODY AND **THROAT ADAPTORS**

Our newly designed “thick aluminum body” horns offer the best dissipation to neodymium compression drivers. When our compression driver are assembled the whole horn become surface of dissipation of the heat generated from the voice coil. HF64 and HF94 horns are provided with two throat adaptors, 1 inch and 1.4 inch size, for maximum application flexibility.

HORN
HF64

Professional High Frequency Horn

PART NUMBER **13133046**

Features

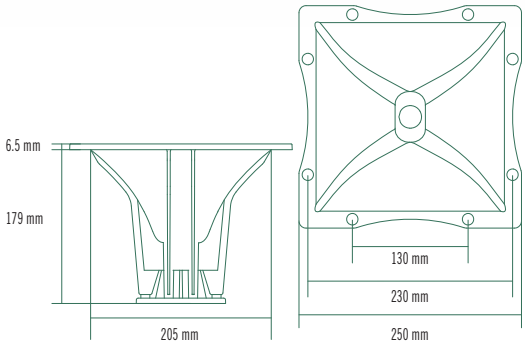
- 1-inch/1.4 inch Throat Adaptor
- 60° x 40° Constant Directivity Coverage
- Loading down to 500 Hz
- Thick Aluminum Body for best heat dissipation in conjuntion to Neodimium Compression Drivers
- Perfectly Controlled Dispertion

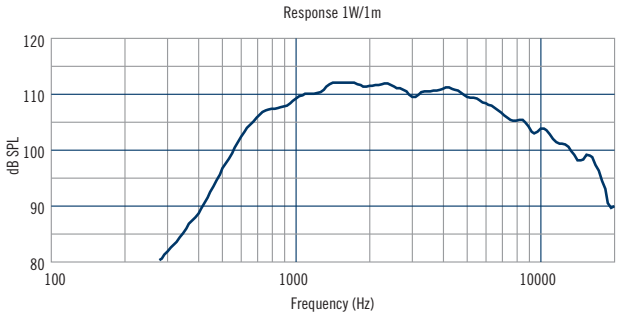
General Specifications

Throat Diameter	25.4-36 / 1.0-1.4	mm/inch
Nominal Coverage (-6dB)	60x40	
Cut-off Frequency	500	Hz
Material	Aluminum	

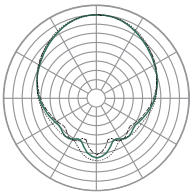
Mounting Information

Overall Dimensions	250x250	mm
Baffle Cut-out Dimensions	200x200	mm
Total Depth	180	mm
Driver Mounting		
4 x 6.5 mm holes	101/76	mm
Net Weight	1.8	kg
Shipping Weight	2	kg

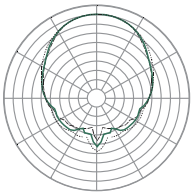




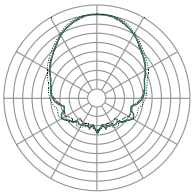
Frequency response curve of the horn measured on axis at distance of 1 meter with1 watt signal, in an anechoic environment, with ND2530-T3 compression driver.



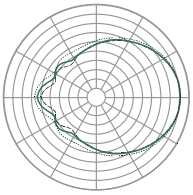
Horizontal 2000 Hz
1/3 Octave Polars



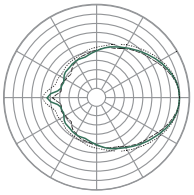
Horizontal 4000 Hz
1/3 Octave Polars



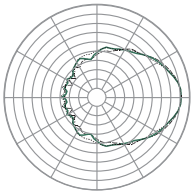
Horizontal 8000 Hz
1/3 Octave Polars



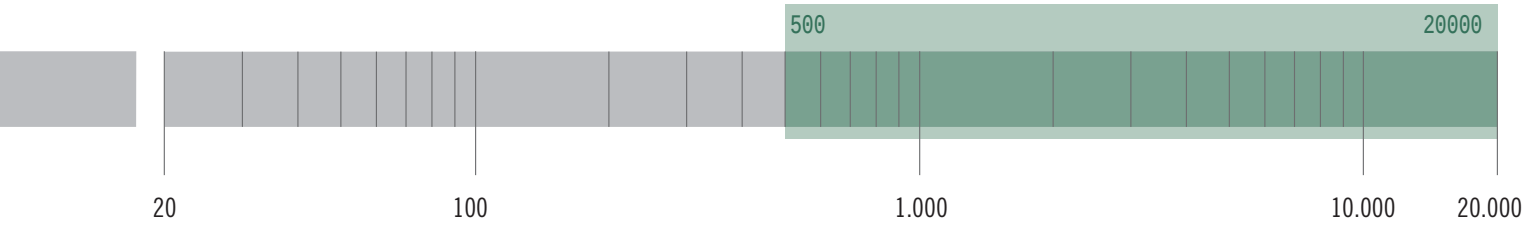
Vertical 2000 Hz
1/3 Octave Polars



Vertical 4000 Hz
1/3 Octave Polars



Vertical 8000 Hz
1/3 Octave Polars



HORN
HF94

Professional High Frequency Horn

PART NUMBER **13133047**

Features

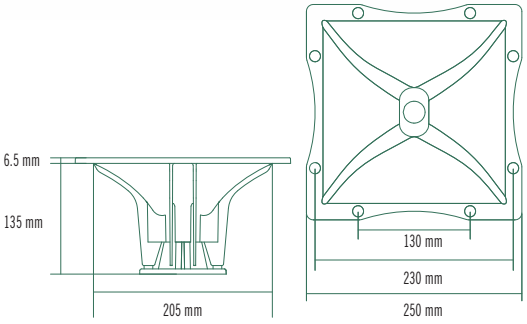
- 1-inch/1.4 inch Throat Adaptor
- 90° x 40° Constant Directivity Coverage
- Loading down to 500 Hz
- Thick Aluminum Body for best heat dissipation in conjuntion to Neodimium Compression Drivers
- Perfectly Controlled Dispertion

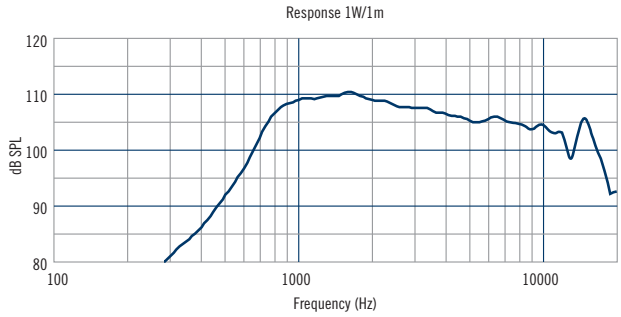
General Specifications

Throat Diameter	25.4-36 / 1.0-1.4	mm/inch
Nominal Coverage (-6dB)	90x40	
Cut-off Frequency	500	Hz
Material	Aluminum	

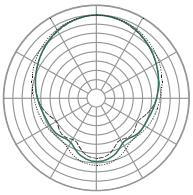
Mounting Information

Overall Dimensions	250x250	mm
Baffle Cut-out Dimensions	200x200	mm
Total Depth	150	mm
Driver Mounting		
4 x 6.5 mm holes	101/76	mm
Net Weight	1.3	kg
Shipping Weight	1.5	kg

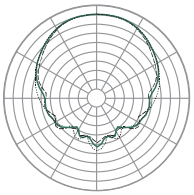




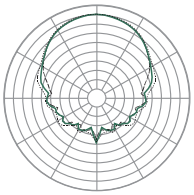
Frequency response curve of the horn measured on axis at distance of 1 meter with1 watt signal, in an anechoic environment, with ND2530-T3 compression driver.



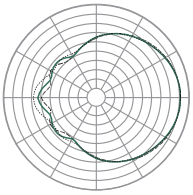
Horizontal 2000 Hz
1/3 Octave Polars



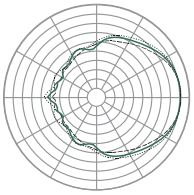
Horizontal 4000 Hz
1/3 Octave Polars



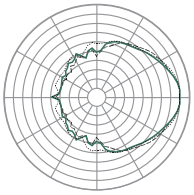
Horizontal 8000 Hz
1/3 Octave Polars



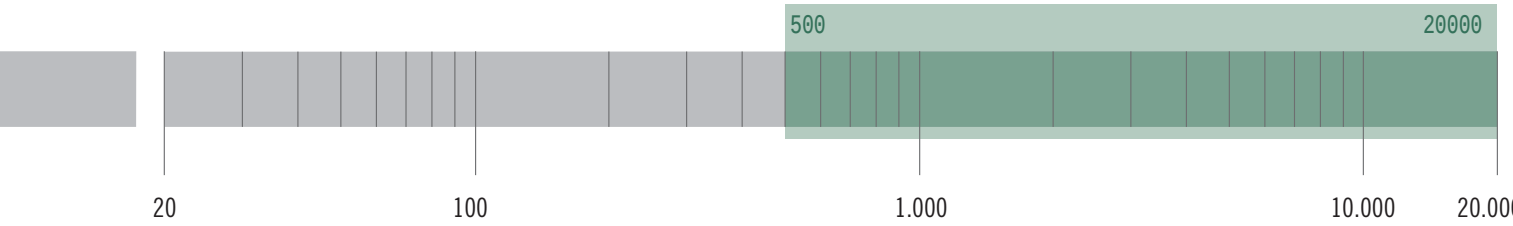
Vertical 2000 Hz
1/3 Octave Polars



Vertical 4000 Hz
1/3 Octave Polars



Vertical 8000 Hz
1/3 Octave Polars



HORN
H100

Professional High Frequency Horn

PART NUMBER **13125015**

Features

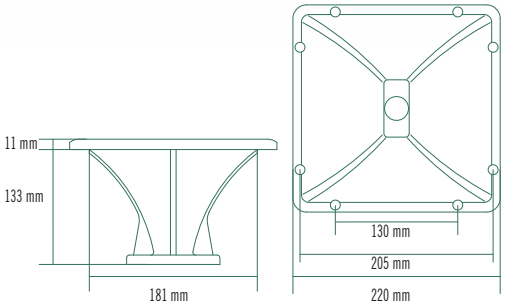
- 1-inch Throat Diameter
- 90° x 75° Constant Directivity Coverage
- Loading down to 800 Hz
- State of the art sound quality

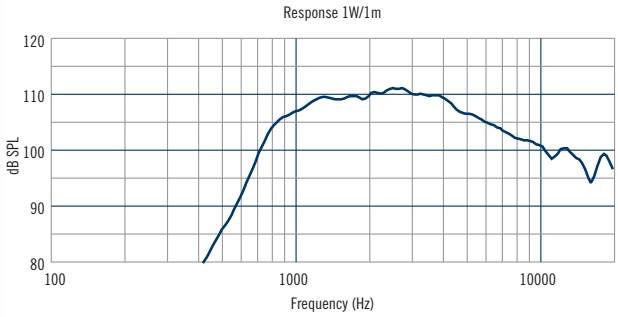
General Specifications

Throat Diameter	25.4/1.0	mm/inch
Nominal Coverage (-6dB)	90° x 75°	
Cut-off Frequency	800	Hz
Material	Structural Polyurethane	

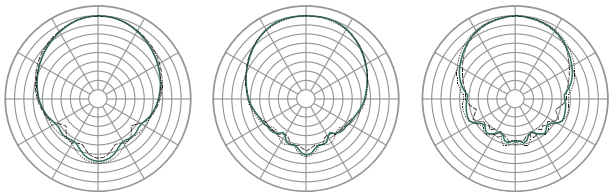
Mounting Information

Overall Dimensions	220x220	mm
Baffle Cut-out Dimensions	182x182	mm
Total Depth	133	mm
Driver Mounting		
4 x 6.5 mm holes	76	mm
Net Weight	0.6	kg
Shipping Weight	0.8	kg

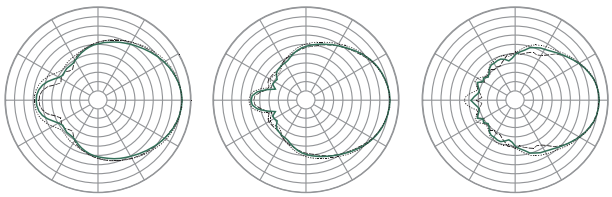




Frequency response curve of the horn measured on axis at distance of 1 meter with1 watt signal, in an anechoic environment, with ND1411-M compression driver.



Horizontal 2000 Hz 1/3 Octave Polars | Horizontal 4000 Hz 1/3 Octave Polars | Horizontal 8000 Hz 1/3 Octave Polars



Vertical 2000 Hz 1/3 Octave Polars | Vertical 4000 Hz 1/3 Octave Polars | Vertical 8000 Hz 1/3 Octave Polars

HORN
HF101

Professional High Frequency Horn

PART NUMBER **13133048**

Features

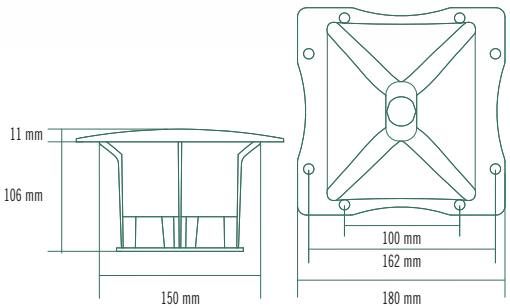
- 1-inch Throat Diameter
- 90° x 70° Constant Directivity Coverage
- Loading down to 1000 Hz
- Aluminum Body
- Perfectly Controlled Dispertion

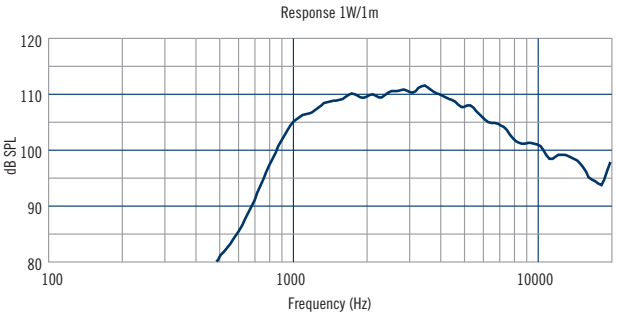
General Specifications

Throat Diameter	25.4/1.0	mm/inch
Nominal Coverage (-6dB)	90x70	
Cut-off Frequency	1000	Hz
Material	Aluminum	

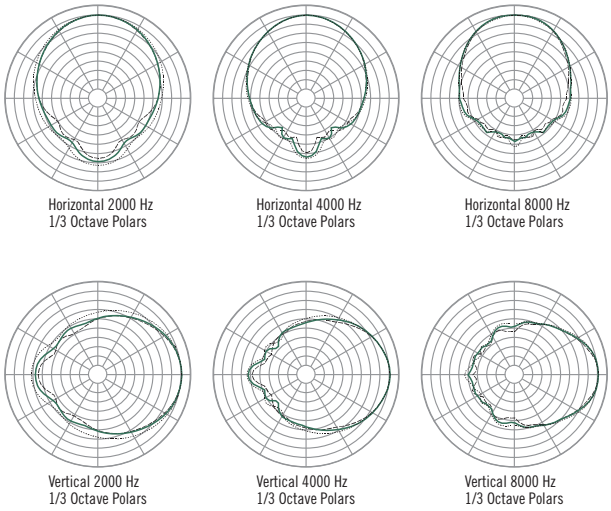
Mounting Information

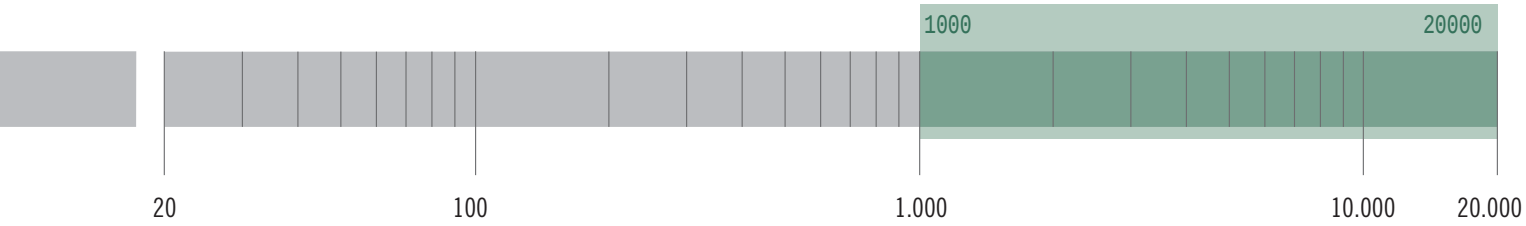
Overall Dimensions	180x180	mm
Baffle Cut-out Dimensions	150x2150	mm
Total Depth	90	mm
Driver Mounting		
4 x 6.5 mm holes	76	mm
Net Weight	0.7	kg
Shipping Weight	0.9	kg





Frequency response curve of the horn measured on axis at distance of 1 meter with1 watt signal, in an anechoic environment, with ND1411-M compression driver.





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the rules of sound