



B&C

SPEAKERS

CATALOGUE

20

20

With over 70 years of industry experience, B&C Speakers has designed and built thousands of unique transducers. Each year, our sales and engineering teams work together to develop a comprehensive catalogue. While this catalogue reflects the large majority of our technologies, it is primarily designed to feature more recent additions to the

product range. Please refer to our web site (<http://www.bcspeakers.com>) to get the latest product updates throughout the year. You will also find more detailed specifications and physical dimensions for all standard models. Our web site is by far our most up-to-date and complete product information resource.

LARGE SIGNAL PARAMETERS AND EXCURSION LIMITS

Thiele/Small parameters, usually abbreviated T/S, have been the universal language for describing loudspeaker behavior in the small-signal domain since their introduction in the 1960s. Their primary utility is as a design aid for ported cabinets, maximizing sensitivity. They have serious limitations when applied to modern sound systems, as they were never designed to model loudspeakers in the large signal domain. In today's world of high voltage amplifiers, ubiquitous digital signal processing (DSP), and advanced computer modeling it is more important than ever to understand the intent and limitations of Thiele/Small parameters.

Thiele/Small parameters are calculated from an equivalent circuit model. Simulated resistors, capacitors, and inductors are adjusted until they match a woofer's measured impedance response (Figure 1) as closely as possible. This process is similar to how a passive crossover can have high-pass, low-pass, and equalization filters just like the ones provided in

your digital loudspeaker processor. How well this equivalent circuit models the transducer itself depends on the accuracy of the woofer impedance measurement, as well as the complexity of the circuit model itself. Different models can give quite different results for the same woofer, and every manufacturer has their own preferred model to generate T/S parameters for their specification sheets.

One of the main limitations of T/S parameters is that they are measured with the voice coil near the rest position. In short, they are small-signal parameters which should not be used beyond one watt or a few hundred Hz (where cone resonances begin to invalidate the model). Even one watt may be generous around F_s (the woofer's resonant frequency), where impedance often exceeds 100Ω in a nominally 8Ω woofer. Since modern subwoofers are rated in kilowatts, and amplifiers in tens of kilowatts, the behavior of a woofer at one watt is not really so interesting anymore. Loudspeaker designers need to predict not just loudspeaker system sensitivity, but maximum output before excessive distortion or risk of damage.

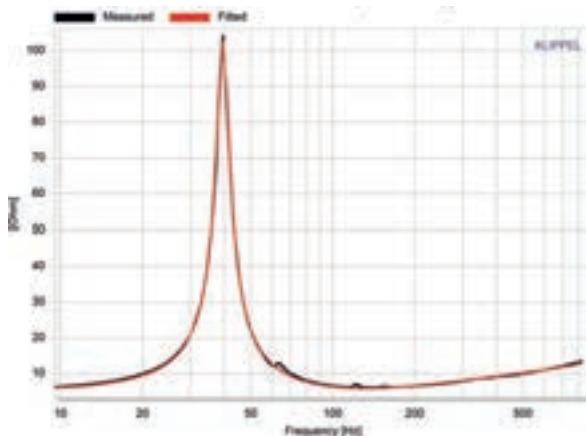
The woofer's behavior at high excursions must be measured and considered in its design, along with durability concerns like cone weight and suspension stiffness.

To try and describe the maximum capabilities of a transducer, large-signal parameters like X_{max} (excursion) and P_e (power handling) are used. Since there is no allowance for nonlinearities in the small-signal parameters, the behavior of the system once the cone starts to move cannot be correctly accounted for by most software. In fact, all the parameters change considerably with cone motion, and they are not necessarily symmetrical (i.e. the woofer behaves differently coil in versus coil out). To more accurately characterize a woofer, it is important to measure changes in all fundamental parameters across the whole range of cone motion. The woofer can then be optimized to behave predictably at high power and excursion.

B&C's specified **Nominal Power Handling** is measured according to the AES2-1984 standard. The transducer under test is driven for a two-hour period with a pink noise signal having a crest factor of 2 (or 6 dB), and filtered to the working range

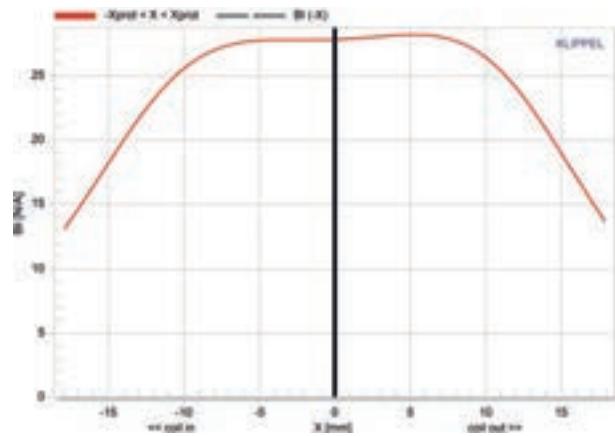
Magnitude of electric impedance Z (f)

Measured free-air impedance of 18SW115 subwoofer (black), and simulated impedance based on equivalent circuit model (red).



Force factor BI (x)

BI(x) graph for 18SW115 subwoofer. Dotted line is the same curve inverted to help gauge symmetry



of the transducer itself. For instance, a 50-500 Hz range is typical for woofer testing. Cone loudspeakers are tested in free air, while compression drivers are coupled to their recommended horn. Power is calculated using the RMS value of applied voltage – averaged over the test period – and the minimum value of electrical impedance within the working range of the loudspeaker. After the test, the transducer must be in working order, without permanent impact on its technical performance.

Due to the transient character of musical program material, whose crest factor is 12 dB or more, it is customary to specify a **Continuous Program Power Handling** double that of the Nominal Power Handling. This figure can then be used as a guide to power amplifier selection, in order to fully exploit the thermal and mechanical capabilities of the transducer without clipping.

Looking through a loudspeaker specification sheet, an electronics engineer would likely ask where the missing pages are. Most woofer spec sheets are one page long, and list more physical characteristics like coil height than tested parameters like sensitivity. In electronics even a very simple operational amplifier² comes with dozens of pages of specifications, from packaging to application notes, detailed test conditions, and every major parameter versus voltage, load, and ambient temperature. Circuit diagrams are provided, and both standard operating and failure conditions are considered. A moving mechanical system like a woofer is much more complicated than a simple integrated circuit, especially considering the diversity of applications. The parameters prescribed by T/S cannot hope to account for the varieties in performance seen in practical applications.

At B&C Speakers, one of the tools used in transducer development is the Klippe R&D suite². This suite is a combination of hardware and software that can be used to

measure transducers at high excursion and power, and characterize their performance in a repeatable way. Using a laser to directly measure cone excursion, in combination with voltage and current measured at the amplifier terminals, our engineers can measure exactly how closely the transducer follows an input signal. The result of running a full Klippe Large Signal Identification (LSI) test is a twelve-page report with much more detailed information about suspension limits and symmetry, how fast the motor and coil heat up, and even how electrical damping is affected by a hot coil. Instabilities and nonlinearities can be identified, and engineers can then look to address them in the design of the transducer.

For example, consider the BI parameter. This parameter is a measurement of how strongly the electric current of the audio signal translates to force on the cone - like horsepower in a car engine. The strength of the magnetic field, B, is multiplied by the length of wire immersed in that field, l. Higher numbers indicate a stronger motor, which results in better sound quality, efficiency, and stronger electrical damping. Figure 2 shows the anatomy of a typical woofer motor. As the cone moves, the amount of coil immersed in the magnetic gap changes – until the cone has moved so far that most of the coil is no longer in the gap. Graphing the value of BI as the cone moves from all the way in to all the way out gives a result like Figure 3 (taken from our 18SW115 subwoofer).

The BI curve in Figure 3 is relatively flat for ± 10 mm of excursion. This linearity is a key advantage in our SW, TBW, DS, and IPAL series subwoofers. Using a combination of coil geometry and magnetic circuit design, our engineers are able to keep BI relatively constant through the middle 2/3 of excursion (where the coil spends most of its life). Effectively, the peak BI the motor could provide is spread out over a wider range of excursion. This distribution

results in reduced distortion, and improved sound quality and durability. Another woofer could have higher BI listed on its spec sheet, but be unstable and have higher distortion at high excursion as its motor force could be concentrated in the middle.

The " X_{var} " excursion value reported on our data sheets (generally after the traditional " X_{max} " value) is generated taking the measured BI curve into account. Beyond this excursion limit, the magnetic field seen by the voice coil (BI), or the total suspension compliance (K_{ms}), or both, drops to less than 50% of their small-signal value. Excursions beyond this level produce high distortion levels, strong variations from small signal behavior, and eventually power compression. B&C Speakers believes that the added information included in X_{var} gives a more accurate and reliable prediction of loudspeaker behavior under actual operating conditions.

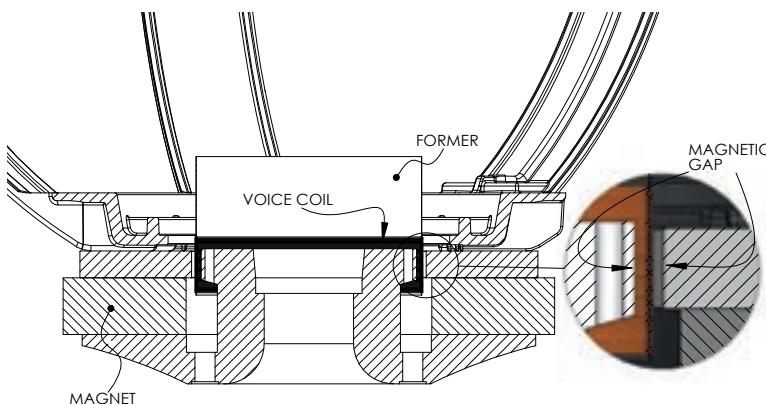
These examples illustrate how one-dimensional specifications like T/S parameters tell only a very small part of the story, and can make two very different loudspeakers look similar. Transducers are complex mechanical systems with many compromises to make between cost, performance, and longevity. A pro-audio brand like B&C Speakers designs transducers for maximum output and durability, to be used in the lightest weight and smallest enclosures possible. We deploy advanced R&D techniques to analyze and predict large signal behavior and minimize nonlinearities. Make sure when you choose a woofer based on Thiele/Small parameters you understand whether they reflect a woofer designed using these same methods, or one designed to look good at rest, on paper.

For more information please visit
<http://www.bcspeakers.com>,
or contact your local distributor

¹ <http://www.ti.com/product/TL074>

² <https://www.klipel.de/products/rd-system.html>

Cross-section of subwoofer motor showing metal parts which concentrate magnetic energy in the gap, where the coil is immersed



B&C Speakers is a major supplier to the pro audio market in midrange, woofer and subwoofer cone drivers. We have made a strong commitment to provide a well-balanced line of LF drivers that range in size from 2" to 21".

In recent years we have made refinements to our cone geometry, magnet assemblies and speaker production lines to create a dynamic and powerful lineup of products. The models that are included in this catalog all have:

- Increased sensitivity
- Increased power handling capacity
- Increased excursion capabilities
- lower distortion levels

Our engineers have optimized each design with Finite Element Analysis (FEA) software to ensure each speaker operates to its fullest potential time and time again.

From nightclubs, to stadiums, to concert halls around the world, our speakers are chosen based on their reliability, consistency and most of all for their outstanding sound quality and performance.

5FG44

FE WOOFER

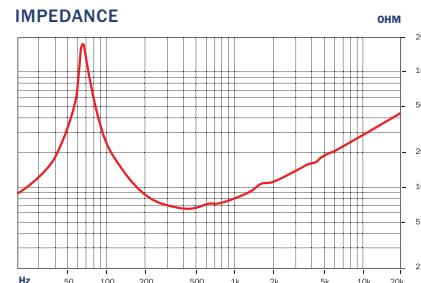
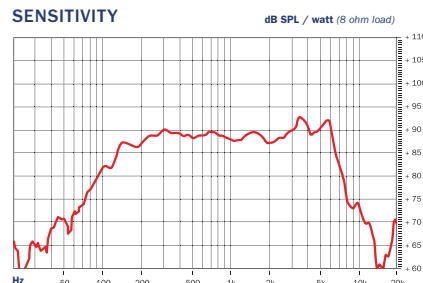


200 W
continuous program
power capacity

44 mm (1.7 in)
aluminium voice coil

92 dB
sensitivity

63 - 6000 Hz
response



SPECIFICATIONS

Nominal Diameter	127 mm (5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	100 W
Continuous Program ²	200 W
Sensitivity (1W/1m) ³	92 dB
Frequency Range	63 - 6000 Hz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Copper
Former Material	Kapton
Winding Depth	9 mm (0.35 in)
Magnetic Gap Depth	6 mm (0.25 in)
Flux Density	1.1 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	63 Hz
Re	5.8 Ω
Qes	0.3
Qms	10
Qts	0.27
Vas	6.3 dm³ (0.22 ft³)
Sd	95 cm² (14.7 in²)
η_0	0.55%
X max	± 3 mm
X var	± 5 mm
Mms	12.0 g
Bl	10 T·m
Le	0.8 mH
EBP	210 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	155 mm (6.1 in)
Bolt Circle Diameter	142 mm (5.6 in)
Baffle Cutout Diameter	122 mm (4.8 in)
Depth	77 mm (3.03 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	0.5 dm³ (0.02 ft³)
Net Weight	1.6 kg (3.52 lb)
Shipping Weight	1.8 Kg (3.97 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Service kit	RCK005FG448

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 200 to 4000 Hz.

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

6MD38

FE MIDRANGE



240 W
continuous program
power capacity

96 dB
sensitivity

38 mm (1.5 in)
aluminium voice coil

130 - 6000 Hz
response

SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	170 mm (6.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	120 W
Continuous Program ²	240 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	130 - 6000 Hz
Voice Coil Diameter	38 mm (1.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	9 mm (0.35 in)
Magnetic Gap Depth	6 mm (0.25 in)
Flux Density	1.4 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	None

THIELE & SMALL PARAMETERS⁴

Fs	130 Hz
Re	5.7 Ω
Qes	0.49
Qms	3.7
Qts	0.44
Vas	3 dm³ (0.1 ft³)
Sd	132 cm² (20.5 in²)
η_0	1.4%
X max	± 2 mm
X var	± 4.5 mm
Mms	12 g
Bl	10.5 T·m
Le	0.25 mH
EBP	265 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	187 mm (7.4 in)
Bolt Circle Diameter	172 mm (6.7 in)
Baffle Cutout Diameter	145 mm (5.7 in)
Depth	82 mm (3.2 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	0.8 dm³ (0.03 ft³)
Net Weight	2.2 kg (4.8 lb)
Shipping Weight	2.4 kg (5.29 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Service kit	RCK006MD388

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 500 to 6000 Hz.

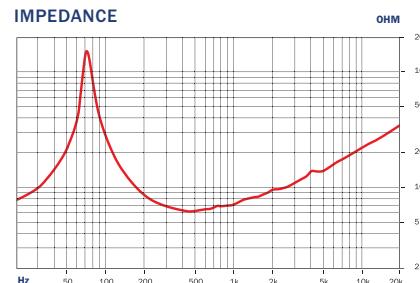
Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

6PS38

FE WOOFER



300 W continuous program power capacity	38 mm (1.5 in) aluminium voice coil
94 dB sensitivity	75 - 5000 Hz response



SPECIFICATIONS

Nominal Diameter	170 mm (6.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.6 Ω
Power Handling	
Nominal (AES) ¹	150 W
Continuous Program ²	300 W
Sensitivity (1W/1m) ³	94 dB
Frequency Range	75 - 5000 Hz
Voice Coil Diameter	38 mm (1.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	12 mm (0.49 in)
Magnetic Gap Depth	6 mm (0.24 in)
Flux Density	1.4 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	75 Hz
Re	5.4 Ω
Qes	0.31
Qms	11.7
Qts	0.3
Vas	8 dm³ (0.28 ft³)
Sd	132 cm² (20.46 in²)
η_0	1%
X max	± 6 mm
X var	± 7.5 mm
Mms	14 g
Bl	10.8 T·m
Le	0.6 mH
EBP	241 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	187 mm (7.36 in)
Bolt Circle Diameter	172 mm (6.77 in)
Baffle Cutout Diameter	145.0 mm (5.71 in)
Depth	82 mm (3.23 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	0.8 dm³ (0.03 ft³)
Net Weight	2.2 kg (4.85 lb)
Shipping Weight	2.4 kg (5.29 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Service kit	RCK06PS388

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request

6PS44

FE WOOFER

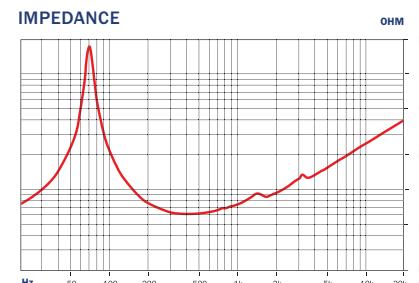


400 W
continuous program
power capacity

44 mm (1.7 in)
copper voice coil

93 dB
sensitivity

70 - 5000 Hz
response



SPECIFICATIONS

Nominal Diameter	170 mm (6.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.0 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	93 dB
Frequency Range	70 - 5000 Hz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	12 mm (0.49 in)
Magnetic Gap Depth	6 mm (0.24 in)
Flux Density	1.4 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	71 Hz
Re	5.3 Ω
Qes	0.34
Qms	12.5
Qts	0.33
Vas	7 dm³ (0.25 ft³)
Sd	132 cm² (20.46 in²)
η_0	0.7%
X max	± 4.5 mm
X var	± 6.0 mm
Mms	18 g
Bl	11 T·m
Le	0.7 mH
EBP	208 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	187 mm (7.36 in)
Bolt Circle Diameter	172 mm (6.77 in)
Baffle Cutout Diameter	145.0 mm (5.71 in)
Depth	88 mm (3.46 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Air volume occupied by driver	0.9 dm³ (0.03 ft³)
Net Weight	2.5 kg (5.51 lb)
Shipping Weight	2.7 Kg (5.95 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Service kit	RCK06PS448

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.⁴

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

8PE21

FE WOOFER

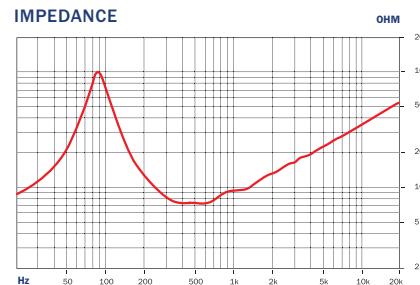
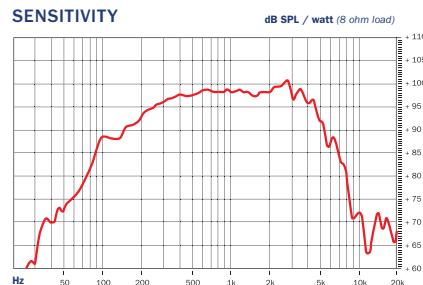


98 dB
sensitivity

400 W
continuous program
power capacity

90 - 5000 Hz
response

51 mm (2 in)
copper voice coil



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.2 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	90 - 5000 Hz
Voice Coil Diameter	51 mm (2 in)
Winding Material	Copper
Former Material	Kapton
Winding Depth	9.0 mm (0.37 in)
Magnetic Gap Depth	8.0 mm (0.31 in)
Flux Density	1.25 T
Magnet Material	Ferrite
Waterproof Cone Treatment	None

THIELE & SMALL PARAMETERS⁴

Fs	87 Hz
Re	5.6 Ω
Qes	0.2
Qms	3.8
Qts	0.19
Vas	13 dm³ (0.46 ft³)
Sd	220 cm² (34.1 in²)
η_0	4.1%
X max	± 2.5 mm
X var	± 4.5 mm
Mms	18 g
Bl	16.6 T·m
Le	0.5 mH
EBP	435 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.86 in)
Bolt Circle Diameter	210 mm (8.27 in)
Baffle Cutout Diameter	187 mm (7.36 in)
Depth	91 mm (3.58 in)
Flange and Gasket Thickness	11 mm (0.43 in)
Air volume occupied by driver	1.2 dm³ (0.04 ft³)
Net Weight	4.2 kg (9.26 lb)
Shipping Weight	4.65 kg (10.25 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.91 in)
Service kit	RCK008PE218

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

8FW51

FE WOOFER



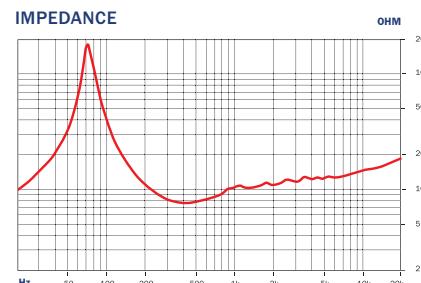
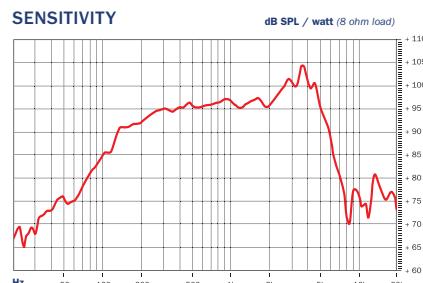
400 W
continuous program
power capacity

51 mm (2 in)
copper voice coil

Shorting copper cap
for extended
HF response

97 dB
sensitivity

70 - 5000 Hz
response



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.4 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	70 - 5000 Hz
Voice Coil Diameter	51 mm (2 in)
Winding Material	Copper
Former Material	Kapton
Winding Depth	17 mm (0.65 in)
Magnetic Gap Depth	10 mm (0.4 in)
Flux Density	1.35 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

Also available in 4 Ω and 16 Ω, data upon request

THIELE & SMALL PARAMETERS⁴

Fs	74 Hz
Re	5.2 Ω
Qes	0.21
Qms	9.3
Qts	0.21
Vas	12 dm³ (0.42 ft³)
Sd	220 cm² (34.1 in²)
η_0	2.1 %
X max	± 6 mm
X var	± 5 mm
Mms	27 g
Bl	17.7 T·m
Le	0.56 mH
EPB	352 Hz

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	100 mm (3.94 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	1.5 dm³ (0.05 ft³)
Net Weight	5.3 kg (11.6 lb)
Shipping Weight	5.75 kg (12.7 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.91 in)
Service kit	RCK008FW518

Average SPL from 200 to 4000 Hz.
⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

8FG64

FE SUBWOOFER



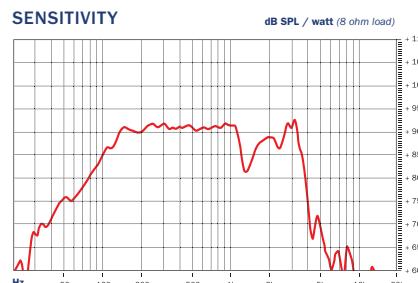
600 W
continuous program
power capacity

64 mm (2.5 in)
copper voice coil

Aluminium
demodulating ring
for very low distortion

92 dB
sensitivity

50 - 3000 Hz
response



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.7 Ω
Power Handling	
Nominal (AES) ¹	300 W
Continuous Program ²	600 W
Sensitivity (1W/1m) ³	92 dB
Frequency Range	50 - 3000 Hz
Voice Coil Diameter	64 mm (2.52 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	19 mm (0.75 in)
Magnetic Gap Depth	10 mm (0.39 in)
Flux Density	0.9 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	51 Hz
Re	5.8 Ω
Qes	0.32
Qms	10.1
Qts	0.31
Vas	15 dm³ (0.53 ft³)
Sd	220 cm² (34.1 in²)
η_0	0.7%
X max	± 7 mm
X var	± 8 mm
Mms	41 g
Bl	15.8 T·m
Le	1.7 mH
EBP	159 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.86 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	100 mm (3.94)
Flange and Gasket Thickness	9 mm (0.37 in)
Air volume occupied by driver	1.5 dm³ (0.05 ft³)
Net Weight	4.5 kg (9.92 lb)
Shipping Weight	4.95 kg (10.91 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.91 in)
Service kit	RCK008FG648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

10MD26

FE MID-BASS



700 W
continuous program
power capacity

100 dB
sensitivity

76 mm (3 in)
aluminium voice coil

80 - 4000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.2 Ω
Power Handling	
Nominal (AES) ¹	350 W
Continuous Program ²	700 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	80 - 4000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	11 mm (0.43 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.45 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	None

THIELE & SMALL PARAMETERS⁴

Fs	76 Hz
Re	5.8 Ω
Qes	0.22
Qms	4.8
Qts	0.21
Vas	20 dm ³ (0.71 ft ³)
Sd	320 cm ² (49.1 in ²)
η_0	3.9 %
X max	± 1.5 mm
X var	± 4.5 mm
Mms	31 g
Bl	19.6 T·m
Le	1.2 mH
EPB	345 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	262 mm (10.3 in)
Bolt Circle Diameter	245 mm (9.6 in)
Baffle Cutout Diameter	230 mm (8.8 in)
Depth	124 mm (4.9 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	2.6 dm ³ (0.09 ft ³)
Net Weight	7.3 kg (16.1 lb)
Shipping Weight	7.9 kg (17.4 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK010MD268

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 200 to 4000 Hz.

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request

10FW64

FE WOOFER



500 W
continuous program
power capacity

98 dB
sensitivity

64 mm (2.5 in)
aluminium voice coil

65 - 3000 Hz
response



SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.4 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	65 - 3000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	14 mm (0.55 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.25 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	63 Hz
Re	5 Ω
Qes	0.25
Qms	3.4
Qts	0.23
Vas	27 dm ³ (0.95 ft ³)
Sd	320 cm ² (50 in ²)
η_0	2.6 %
X max	± 5 mm
X var	± 5.5 mm
Mms	34 g
Bl	16.4 T·m
Le	0.9 mH
EBP	252 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.3 in)
Bolt Circle Diameter	245 mm (9.6 in)
Baffle Cutout Diameter	230 mm (8.8 in)
Depth	116 mm (4.6 in)
Flange and Gasket Thickness	13 mm (0.5 in)
Air volume occupied by driver	2.5 dm ³ (0.09 ft ³)
Net Weight	5.9 kg (13 lb)
Shipping Weight	6.5 kg (14.3 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK010FW648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 200 to 2000 Hz.

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

12MH32

FE MID-BASS



800 W
continuous program
power capacity

76 mm (3 in)
copper voice coil

Aluminium
demodulating ring
for very low distortion

101 dB
sensitivity

50 - 3000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	400 W
Continuous Program ²	800 W
Sensitivity (1W/1m) ³	101 dB
Frequency Range	50 - 3000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	14 mm (0.55 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.4 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	53 Hz
Re	5.2 Ω
Qes	0.2
Qms	7.2
Qts	0.19
Vas	63 dm³ (2.2 ft³)
Sd	522 cm² (80.9 in²)
η_0	4.8 %
X max	± 5 mm
X var	± 7 mm
Mms	54 g
Bl	22.3 T·m
Le	0.83 mH
EBP	265 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	316 mm (12.4 in)
Bolt Circle Diameter	296 mm (11.6 in)
Baffle Cutout Diameter	282 mm (11.1 in)
Depth	133 mm (5.24 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Air volume occupied by driver	3.3 dm³ (0.12 ft³)
Net Weight	7.6 kg (16.7 lb)
Shipping Weight	8.5 kg (18.74 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK012MH328

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 2000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request

12FW64

FE WOOFER



500 W continuous program power capacity	64 mm (2.5 in) aluminium voice coil
98 dB sensitivity	55 - 3000 Hz response



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.7 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	55 - 3000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	14 mm (0.55 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.3 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	55 Hz
Re	5.2 Ω
Qes	0.32
Qms	3.5
Qts	0.29
Vas	64 dm ³ (2.26 ft ³)
Sd	522 cm ² (80.9 in ²)
η_0	3.6 %
X max	± 5 mm
X var	± 5 mm
Mms	47 g
Bl	15.5 T·m
Le	1 mH
EBP	171 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.7 in)
Baffle Cutout Diameter	283 mm (11.1 in)
Depth	136 mm (5.35 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Air volume occupied by driver	3 dm ³ (0.10 ft ³)
Net Weight	5.6 kg (12.3 lb)
Shipping Weight	6.5 kg (14.33 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12FW648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 200 to 2000 Hz.

Average SPL from 200 to 2000 Hz.
Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

12FW76

FE WOOFER



1000 W
continuous program
power capacity

100 dB
sensitivity

76 mm (3 in)
copper voice coil

55 - 3000 Hz
response

Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.8 Ω
Power Handling	
Nominal (AES) ¹	500 W
Continuous program ²	1000 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	55 - 3000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	19 mm (0.75 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.35 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	54 Hz
Re	5.1 Ω
Qes	0.18
Qms	3.8
Qts	0.18
Vas	45 dm³ (1.6 ft³)
Sd	522 cm² (80.9 in²)
η_0	3.7 %
X max	± 7 mm
X var	± 10 mm
Mms	75 g
Bl	26.4 T·m
Le	1.4 mH
EBP	300 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.7 in)
Baffle Cutout Diameter	283 mm (11.1 in)
Depth	147 mm (5.79 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Air volume occupied by driver	3 dm³ (0.10 ft³)
Net Weight	8.5 kg (18.7 lb)
Shipping Weight	9.4 kg (20.72 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK012FW768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 4000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request

12PS100

FE SUBWOOFER



1400 W
continuous program
power capacity

93 dB
sensitivity

100 mm (4 in)
copper voice coil

45 - 1000 Hz
response

Double silicone
spider with optimized
compliance



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.7 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	93 dB
Frequency Range	45 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	21 mm (0.83 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.05 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	44 Hz
Re	5.3 Ω
Qes	0.29
Qms	3.9
Qts	0.27
Vas	47 dm ³ (1.6 ft ³)
Sd	531 cm ² (82.3 in ²)
η_0	1.3 %
X max	± 8 mm
X var	± 8 mm
Mms	106 g
Bl	22.5 T·m
Le	2 mH
EBP	151 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	319 mm (12.5 in)
Bolt Circle Diameter	299 mm (11.8 in)
Baffle Cutout Diameter	281 mm (11.1 in)
Depth	118 mm (4.6 in)
Flange and Gasket Thickness	13 mm (0.5 in)
Air volume occupied by driver	3.5 dm ³ (0.12 ft ³)
Net Weight	8.8 kg (19.4 lb)
Shipping Weight	9.7 kg (21.38 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12PS1008

Also available in 4 Ω, data upon request

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 150 to 500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

12TBX100

FE SUBWOOFER



2000 W
continuous program
power capacity

95 dB
sensitivity

100 mm (4 in)
copper voice coil

45 - 1000 Hz
response

Aluminium
demodulating ring
for very low distortion

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ¹	1000 W
Continuous Program ²	2000 W
Sensitivity (1W/1m) ³	95 dB
Frequency Range	45 - 1500 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25 mm (1 in)
Magnetic Gap Depth	12 mm (0.5 in)
Flux Density	1.1 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	42 Hz
Re	5.1 Ω
Qes	0.27
Qms	6.9
Qts	0.26
Vas	37.5 dm³ (1.3 ft³)
Sd	531 cm² (82.3 in²)
η₀	1.15 %
X max	± 9 mm
X var	± 11 mm
Mms	119 g
Bl	25.5 T·m
Le	1.6 mH
EBP	155 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	319 mm (12.5 in)
Bolt Circle Diameter	299 mm (11.8 in)
Baffle Cutout Diameter	281 mm (11.1 in)
Depth	135 mm (5.3 in)
Flange and Gasket Thickness	13 mm (0.5 in)
Air volume occupied by driver	4.2 dm³ (0.15 ft³)
Net Weight	11.8 kg (26 lb)
Shipping Weight	12.7 kg (28.0 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12TBX1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 150 to 1500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

15PLB76

FE WOOFER



800 W
continuous program power capacity

76 mm (3 in)
copper voice coil

100 dB
sensitivity

40 - 2000 Hz
response



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.2 Ω
Power Handling	
Nominal (AES) ¹	400 W
Continuous Program ²	800 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	40 - 2000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	16 mm (0.62 in)
Magnetic Gap Depth	11 mm (0.4 in)
Flux Density	1.15 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

Also available in 4 Ω, data upon request

THIELE & SMALL PARAMETERS⁴

Fs	42 Hz
Re	5.0 Ω
Qes	0.26
Qms	5.9
Qts	0.25
Vas	164 dm ³ (5.8 ft ³)
Sd	855 cm ² (132.5 in ²)
η_0	4.5 %
X max	± 5 mm
X var	± 8 mm
Mms	88 g
Bl	22.1 T·m
Le	1.3 mH
EBP	161 Hz

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	169 mm (6.65 in)
Flange and Gasket Thickness	16 mm (0.62 in)
Air volume occupied by driver	5.2 dm ³ (0.18 ft ³)
Net Weight	8.5 kg (18.7 lb)
Shipping Weight	9.8 kg (21.61 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15PLB768

Average SPL from 200 to 2000 Hz.
⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

15FW76

FE WOOFER



1000 W
continuous program
power capacity

100 dB
sensitivity

76 mm (3 in)
copper voice coil

40 - 2000 Hz
response

Aluminium
demodulating ring
for very low distortion

Double silicone
spider and ventilated
voice coil gap



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.4 Ω
Power Handling	
Nominal (AES) ¹	500 W
Continuous program ²	1000 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	40 - 2000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	19 mm (0.75 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.25 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	40 Hz
Re	5.1 Ω
Qes	0.22
Qms	5.1
Qts	0.21
Vas	138 dm ³ (4.9 ft ³)
Sd	855 cm ² (132.5 in ²)
η_0	3.9 %
X max	± 7 mm
X var	± 8 mm
Mms	117 g
Bl	26.2 T·m
Le	1.4 mH
EBP	181 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	177 mm (6.97 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	5.5 dm ³ (0.19 ft ³)
Net Weight	9.2 kg (20.2 lb)
Shipping Weight	10.5 kg (23.15 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15FW768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 200 to 2000 Hz.

Average SPL from 200 to 2000 Hz.
Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request

15PS100

FE SUBWOOFER



1400 W
continuous program
power capacity

95.0 dB
sensitivity

100 mm (4 in)
copper voice coil

35 - 1500 Hz
response

Double silicone
spider with optimized
compliance



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	95.0 dB
Frequency Range	35 - 1500 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	21 mm (0.83 in)
Magnetic Gap Depth	11 mm (0.4 in)
Flux Density	1.05 T
Magnet Material	Ferrite
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	39 Hz
Re	5.2 Ω
Qes	0.47
Qms	6.0
Qts	0.43
Vas	103.0 dm ³ (3.64 ft ³)
Sd	855.0 cm ² (132.5 in ²)
η_0	1.35 %
X max	± 8 mm
X var	± 6.5 mm
Mms	160 g
Bl	21.2 T·m
Le	2.0 mH
EBP	82 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	168 mm (6.6 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	6.3 dm ³ (0.22 ft ³)
Net Weight	9.8 kg (21.5 lb)
Shipping Weight	11.1 kg (24.47 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15PS1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 150 to 1500 Hz.

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

15PZB100

FE SUBWOOFER



1400 W
continuous program
power capacity

97 dB
sensitivity

100 mm (4 in)
copper voice coil

40 - 2000 Hz
response

Double silicone
spider with optimized
compliance



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.4 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	40 - 2000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	21 mm (0.83 in)
Magnetic Gap Depth	9 mm (0.35 in)
Flux Density	1.15 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	39 Hz
Re	5.2 Ω
Qes	0.3
Qms	6.5
Qts	0.29
Vas	110 dm ³ (3.8 ft ³)
Sd	855 cm ² (132.5 in ²)
η_0	2.1 %
X max	± 8 mm
X var	± 6.5 mm
Mms	154 g
Bl	25.8 T·m
Le	2 mH
EBP	130 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	174 mm (6.85 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	5.2 dm ³ (0.18 ft ³)
Net Weight	11.8 kg (26 lb)
Shipping Weight	13.1 kg (28.8 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15PZB1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 150 to 500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

15TBX100

FE SUBWOOFER



2000 W
continuous program
power capacity

96 dB
sensitivity

100 mm (4 in)
copper voice coil

35 - 1500 Hz
response

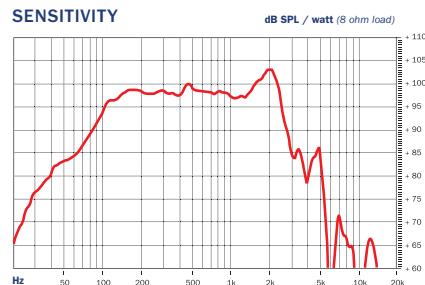
Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.2 Ω
Power Handling	
Nominal (AES) ¹	1000 W
Continuous Program ²	2000 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	35 - 1500 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25 mm (1 in)
Magnetic Gap Depth	12 mm (0.5 in)
Flux Density	1.1 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	35Hz
Re	5.1 Ω
Qes	0.3
Qms	5.2
Qts	0.28
Vas	113 dm ³ (3.8 ft ³)
Sd	855 cm ² (132.5 in ²)
η_0	1.95 %
X max	± 9 mm
X var	± 11 mm
Mms	163 g
Bl	25.5 T·m
Le	1.6 mH
EBP	116 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	181 mm (7.1 in)
Flange and Gasket Thickness	16 mm (0.62 in)
Air volume occupied by driver	5.4 dm ³ (0.19 ft ³)
Net Weight	12.3 kg (27.1 lb)
Shipping Weight	13.6 kg (29.98 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15TBX1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 150 to 1500 Hz.

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

15TBW100

FE SUBWOOFER



3000 W
continuous program
power capacity

96 dB
sensitivity

100 mm (4 in)
split winding
copper voice coil

40 - 1500 Hz
response

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

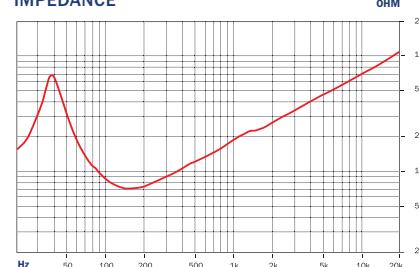
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.7 Ω
Power Handling	
Nominal (AES) ¹	1500 W
Continuous Program ²	3000 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	40 - 1500 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	31 mm (1.22 in)
Magnetic Gap Depth	15 mm (0.59 in)
Flux Density	1.15 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	39 Hz
Re	5.3 Ω
Qes	0.33
Qms	4.4
Qts	0.31
Vas	96 dm ³ (3.39 ft ³)
Sd	855 cm ² (132.5 in ²)
η_0	1.6 %
X max	± 12 mm
X var	± 13.5 mm
Mms	181 g
Bl	26.4 T·m
Le	2.2 mH
EBP	118 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	191 mm (7.52 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	6 dm ³ (0.21 ft ³)
Net Weight	14.3 kg (31.5 lb)
Shipping Weight	15.6 kg (34.39 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15TBW1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 200 to 1000 Hz.

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

18PS100

FE SUBWOOFER



1400 W
continuous program
power capacity

95.5 dB
sensitivity

100 mm (4 in)
copper voice coil

30 - 1000 Hz
response

Double silicone
spider with optimized
compliance



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	95.5 dB
Frequency Range	30 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	21 mm (0.83 in)
Magnetic Gap Depth	11 mm (0.4 in)
Flux Density	1.05 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	30 Hz
Re	5.3 Ω
Qes	0.41
Qms	4.6
Qts	0.39
Vas	245 dm ³ (8.6 ft ³)
Sd	1210 cm ² (187.6 in ²)
η_0	1.6 %
X max	± 8 mm
X var	± 8 mm
Mms	202 g
Bl	22.5 T·m
Le	2.1 mH
EBP	73 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	440 mm (17.3 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	197 mm (7.75 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	9.5 dm ³ (0.33 ft ³)
Net Weight	10.5 kg (23.1 lb)
Shipping Weight	12.1 kg (26.68 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)
Service kit	RCK18PS1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 150 to 500 Hz.

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

18PZB100

FE SUBWOOFER



1400 W
continuous program
power capacity

100 mm (4 in)
copper voice coil

Double silicone
spider with optimized
compliance

97 dB
sensitivity

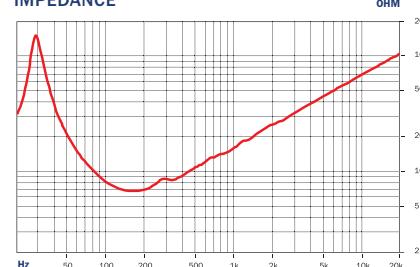
40 - 2000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	40 - 2000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	21 mm (0.83 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.15 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	30 Hz
Re	5.3 Ω
Qes	0.25
Qms	8.8
Qts	0.24
Vas	297 dm ³ (10.5 ft ³)
Sd	1134 cm ² (175.8 in ²)
η_0	3.1 %
X max	± 8 mm
X var	± 8 mm
Mms	170 g
Bl	26 T·m
Le	2.1 mH
EBP	120 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	440 mm (17.3 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	202 mm (7.95 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	9.5 dm ³ (0.33 ft ³)
Net Weight	12.1 kg (26.6 lb)
Shipping Weight	13.7 kg (30.2 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)
Service kit	RCK18PZB1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 2000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

18TBX100

FE SUBWOOFER



2400 W
continuous program
power capacity

97 dB
sensitivity

100 mm (4 in)
split winding
copper voice coil

35 - 1000 Hz
response

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.2 Ω
Power Handling	
Nominal (AES) ¹	1200 W
Continuous Program ²	2400 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	35 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25 mm (1 in)
Magnetic Gap Depth	12 mm (0.5 in)
Flux Density	1.1 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	34 Hz
Re	5.1 Ω
Qes	0.37
Qms	7.2
Qts	0.35
Vas	212 dm ³ (7.5 ft ³)
Sd	1210 cm ² (187.6 in ²)
η_0	2.2 %
X max	± 9 mm
X var	± 11 mm
Mms	209 g
Bl	25.5 T·m
Le	1.6 mH
EBP	91 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	440 mm (17.3 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	209 mm (8.2 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	10.5 dm ³ (0.37 ft ³)
Net Weight	13 kg (28.6 lb)
Shipping Weight	14.6 kg (32.2 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)
Service kit	RCK18TBX1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 100 to 1000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request

18TBW100

FE SUBWOOFER



3000 W
continuous program
power capacity

96 dB
sensitivity

100 mm (4 in)
split winding
copper voice coil

35 - 1000 Hz
response

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

Aluminium
demodulating ring
for very low distortion



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	1500 W
Continuous Program ²	3000 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	35 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	31 mm (1.22 in)
Magnetic Gap Depth	15 mm (0.59 in)
Flux Density	1.15 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	35 Hz
Re	5.3 Ω
Qes	0.41
Qms	8
Qts	0.39
Vas	175 dm³ (6.18 ft³)
Sd	1210 cm² (187.6 in²)
η_0	1.76 %
X max	± 12 mm
X var	± 14 mm
Mms	245 g
Bl	26.4 T·m
Le	2.45 mH
EBP	85 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	442 mm (17.4 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	241 mm (9.5 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	11 dm³ (0.39 ft³)
Net Weight	15.1 kg (33.3 lb)
Shipping Weight	16.7 kg (36.8 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)
Service kit	RCK18TBW1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 200 to 1000 Hz.

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

B&C is a leader in the development of neodymium woofers for the professional audio market. Our HPL series, launched in 1998, was one of the first neodymium loudspeakers available. We have since expanded our use of neodymium to cover our entire range. In addition to having optimized frequency response curves, our newer woofers feature baskets that have been designed to maximize power handling, excursion, and heat dissipation.

The **NDL** series works with an inside slug high-energy neodymium magnet. It has been developed with a new ventilated magnet assembly to assist the cooling of the voice coil. NDL series woofers strike a balance between light weight and performance.

The **MDN** and **MBX** series are specifically designed for high output Mid-Bass applications, especially in compact enclosures. The more recent MBX parameters offer an ideal solution for two way systems, but are also an excellent choice for multi-driver applications, such as Line Array enclosures. The MBX series combines high sensitivity, linearity and excellent power handling. Low moving mass enables a precise and fast transient attack. Other features include a dedicated demodulation ring, ventilated voice coil gap, and new hydrophobic cone surface, offering extreme protection

without increased moving mass. The **NBX** and **NW** series feature a very high-energy neodymium magnet assembly. A specially designed double silicone spider offers excellent excursion control.

The **SW** series is the next generation of neodymium magnet subwoofers. We focused our energy on long, large diameter voice coils (4" to 6") for greater power handling and low power compression. In addition, we have developed new suspension systems to offer superb linearity with low DC offset, and industry-leading durability.

The most recent **DS** Series subwoofers feature high BI motors and four-layer aluminum voice coils, resulting in more energy in the gap, higher efficiency, lower distortion, and better overall performance in subwoofer applications. Now available with both 4.5" (115 mm) and 4" (100 mm) diameter Copper Clad Aluminum Wire voice coils.

The **NDF** and **NDS** series are a complete lineup of high sensitivity and power handling 4" frame transducers. These products represent the best performance for size available in small woofers today, and are made with our famously critical quality control, allowing new compact loudspeaker designs with appropriately scaled performance.

4NDF34

ND EXTENDED RANGE



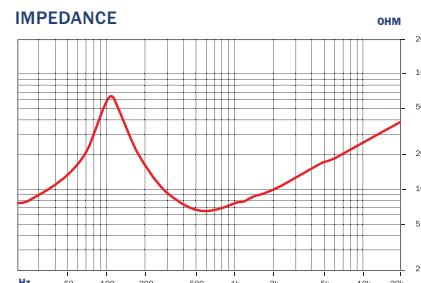
200 W
continuous program power capacity

92 dB
sensitivity

34 mm (1.3 in)
copper voice coil

110 - 8000 Hz
response

Neodymium magnet allows a very light yet powerful motor assembly



SPECIFICATIONS

Nominal Diameter	100 mm (4.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.4 Ω
Power Handling	
Nominal (AES) ¹	100 W
Continuous Program ²	200 W
Sensitivity (1W/1m) ³	92 dB
Frequency Range	110 - 8000 Hz
Voice Coil Diameter	34 mm (1.33 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	11 mm (0.43 in)
Magnetic Gap Depth	7 mm (0.28 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	110 Hz
Re	5.5 Ω
Qes	0.28
Qms	4.2
Qts	0.27
Vas	1.6 dm³ (0.06 ft³)
Sd	57 cm² (8.84 in²)
η_0	0.7 %
X max	± 3.8 mm
X var	± 5.7 mm
Mms	6.1 g
Bl	9.0 T·m
Le	0.23 mH
EBP	392 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	127 mm (5.0 in)
Bolt Circle Diameter	115 mm (4.53 in)
Baffle Cutout Diameter	103.0 mm (4.06 in)
Depth	66 mm (2.6 in)
Flange and Gasket Thickness	3 mm (0.12 in)
Air volume occupied by driver	0.25 dm³ (0.01 ft³)
Net Weight	0.57 kg (1.26 lb)
Shipping Weight (24 units)	13.8 kg (30.42 lb)
Shipping Box (24 units)	425 X 335 X 250 mm (16.73 X 13.19 X 9.84 in)

Service kit **RCK04NDF34**

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 500 to 5000 Hz.

Average SPL from 500 to 5000 Hz.
Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

4NDS34

ND WOOFER



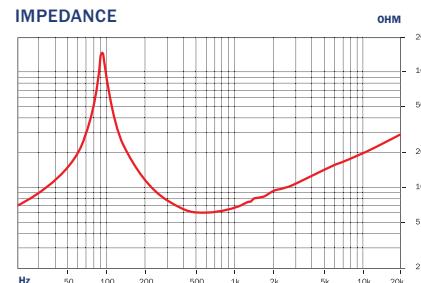
200 W
continuous program power capacity

34 mm (1.3 in)
copper voice coil

Neodymium magnet allows a very light yet powerful motor assembly

89 dB
sensitivity

80 - 2000 Hz
response



SPECIFICATIONS

Nominal Diameter	100 mm (3.94 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.2 Ω
Power Handling	
Nominal (AES) ¹	100 W
Continuous Program ²	200 W
Sensitivity (1W/1m) ³	89 dB
Frequency Range	80 - 2000 Hz
Voice Coil Diameter	34 mm (1.33 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	11.0 mm (0.43 in)
Magnetic Gap Depth	7.0 mm (0.28 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	79 Hz
Re	5.5 Ω
Qes	0.25
Qms	8.5
Qts	0.24
Vas	2.6 dm³ (0.09 ft³)
Sd	57.0 cm² (8.84 in²)
η_0	0.5 %
X max	± 3.8 mm
X var	± 5.0 mm
Mms	7.2 g
Bl	8.8 T·m
Le	0.21 mH
EBP	316 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	127 mm (5.0 in)
Bolt Circle Diameter	114 mm (4.51 in)
Baffle Cutout Diameter	103.0 mm (4.06 in)
Depth	67 mm (2.64 in)
Flange and Gasket Thickness	3 mm (0.12 in)
Air volume occupied by driver	0.25 dm³ (0.01 ft³)
Net Weight	0.57 kg (1.26 lb)
Shipping Weight (24 units)	14.0 kg (30.86 lb)
Shipping Box	425x335x250 mm (16.73x13.19x9.84 in)
Service kit	RCK04NDS348

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.⁴

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

5MDN38

ND MIDRANGE



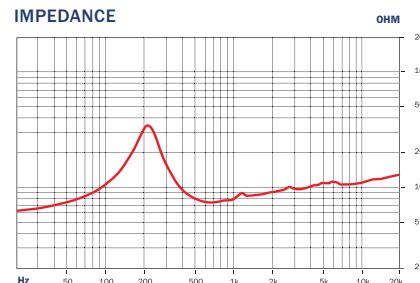
200 W
continuous program
power capacity

96 dB
sensitivity

38 mm (1.5 in)
copper voice coil

240 - 10000 Hz
response

Shorting copper cap
for extended
HF response



SPECIFICATIONS

Nominal Diameter	127 mm (5 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.0 Ω
Power Handling	
Nominal (AES) ¹	100 W
Continuous Program ²	200 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	240 - 10000 Hz
Voice Coil Diameter	38 mm (1.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	10 mm (0.4 in)
Magnetic Gap Depth	6 mm (0.24 in)
Flux Density	1.25 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	240 Hz
Re	5.6 Ω
Qes	0.54
Qms	2.6
Qts	0.45
Vas	0.6 dm³ (0.02 ft³)
Sd	95 cm² (14.7 in²)
η_0	1.7 %
X max	± 3.5 mm
X var	± 2.5 mm
Mms	9 g
Bl	11.5 T·m
Le	0.4 mH
EBP	444 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	155 mm (6.1 in)
Bolt Circle Diameter	142 mm (5.6 in)
Baffle Cutout Diameter	122 mm (4.8 in)
Depth	75 mm (2.95 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	0.35 dm³ (0.01 ft³)
Net Weight	0.85 kg (1.9 lb)
Shipping Weight	1.05 kg (2.31 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Service kit	RCK005MDN388

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 7000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

5NSM38

ND MIDRANGE



220 W
continuous program
power capacity

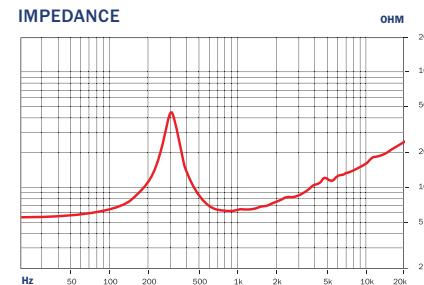
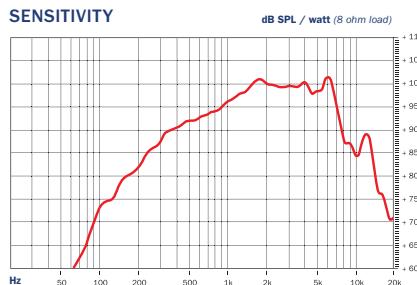
99 dB
sensitivity

38 mm (1.5 in)
aluminium voice coil

300 - 3500 Hz
response

Ideal for Direct
Radiation and
Horn Loaded
Midrange application

Aluminium
demodulating ring
for very low distortion



SPECIFICATIONS

Nominal Diameter	127 mm (5.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ¹	110 W
Continuous Program ²	220 W
Sensitivity (1W/1m) ³	99 dB
Frequency Range	300 - 3500 Hz
Voice Coil Diameter	38 mm (1.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	7.0 mm (0.29 in)
Magnetic Gap Depth	6 mm (0.24 in)
Flux Density	1.45 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front side

THIELE & SMALL PARAMETERS⁴

Fs	300 Hz
Re	5.3 Ω
Qes	0.99
Qms	4.1
Qts	0.79
Vas	0.3 dm³ (0.01 ft³)
Sd	95 cm² (14.73 in²)
η_0	1.15 %
X max	± 2.2 mm
X var	± 3.0 mm
Mms	9 g
Bl	10.1 T·m
Le	0.15 mH
EBP	303 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	157 mm (6.18 in)
Bolt Circle Diameter	142 mm (5.59 in)
Baffle Cutout Diameter	122 mm (4.8 in)
Depth	108 mm (4.25 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	1.2 dm³ (0.04 ft³)
Net Weight	1.37 kg (3.02 lb)
Shipping Weight	1.82kg (4.01 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.91 in)
Service kit	RCK005NSM388

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 500 to 2500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

5NDL38

ND WOOFER

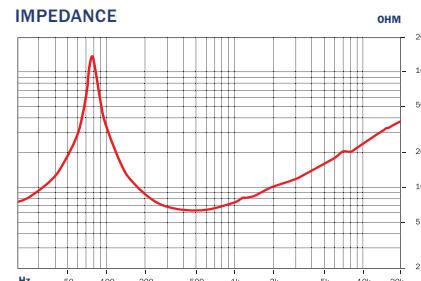


180 W
continuous program power capacity

38 mm (1.5 in)
copper voice coil

91 dB
sensitivity

80 - 7000 Hz
response



SPECIFICATIONS

Nominal Diameter	127 mm (5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ¹	90 W
Continuous Program ²	180 W
Sensitivity (1W/1m) ³	91 dB
Frequency Range	80 - 7000 Hz
Voice Coil Diameter	38 mm (1.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	10 mm (0.37 in)
Magnetic Gap Depth	6 mm (0.24 in)
Flux Density	1.25 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	80 Hz
Re	5.5 Ω
Qes	0.37
Qms	9.2
Qts	0.36
Vas	4.3 dm³ (0.15 ft³)
Sd	95 cm² (14.7 in²)
η_0	0.55 %
X max	± 3.5 mm
X var	± 4.0 mm
Mms	11 g
Bl	9.2 T·m
Le	0.64 mH
EBP	216 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	155 mm (6.1 in)
Bolt Circle Diameter	142 mm (5.6 in)
Baffle Cutout Diameter	122.0 mm (4.8 in)
Depth	75 mm (2.95 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	0.35 dm³ (0.01 ft³)
Net Weight	0.85 kg (1.9 lb)
Shipping Weight	1.05 kg (2.31 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Service kit	RCK005NDL388

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request

6MDN44

ND MIDRANGE



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	170 mm (6.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	96.5 dB
Frequency Range	150 - 6000 Hz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	10 mm (0.37 in)
Magnetic Gap Depth	6 mm (0.25 in)
Flux Density	1.45 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	140 Hz
Re	5.4 Ω
Qes	0.46
Qms	2.8
Qts	0.40
Vas	2.7 dm ³ (0.09 ft ³)
Sd	132 cm ² (20.5 in ²)
η_0	1.6 %
X max	± 2.5 mm
X var	± 3.0 mm
Mms	11 g
Bl	11 T·m
Le	0.47 mH
EBP	304 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	187 mm (7.4 in)
Bolt Circle Diameter	172 mm (6.7 in)
Baffle Cutout Diameter	145 mm (5.7 in)
Depth	73 mm (2.9 in)
Flange and Gasket Thickness	11 mm (0.4 in)
Air volume occupied by driver	0.6 dm ³ (0.02 ft ³)
Net Weight	1.0 kg (2.2 lb)
Shipping Weight	1.2 kg (2.65 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Service kit	RCK06MDN448

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 500 to 5000 Hz.

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request

6MBX44

ND MIDBASS



400 W
continuous program
power capacity

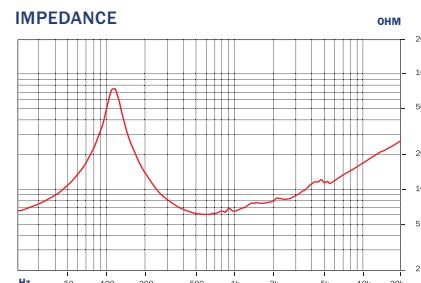
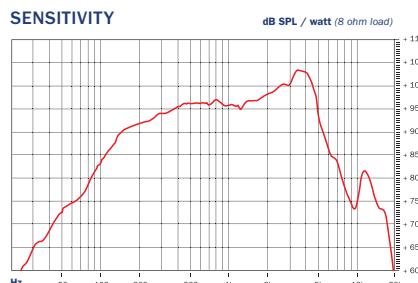
98 dB
sensitivity

44 mm (1.7 in)
aluminium voice coil

115 - 5000 Hz
response

Neodymium magnet
allows a very
light yet powerful
motor assembly

Aluminium
demodulating ring
for very low distortion



SPECIFICATIONS

Nominal Diameter	170 mm (6.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	115 - 5000 Hz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	10 mm (0.37 in)
Magnetic Gap Depth	6 mm (0.25 in)
Flux Density	1.55 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Impregnated Cone

THIELE & SMALL PARAMETERS⁴

Fs	113 Hz
Re	5.4 Ω
Qes	0.34
Qms	3.9
Qts	0.31
Vas	4.1 dm³ (0.14 ft³)
Sd	132 cm² (20.46 in²)
η_0	1.4 %
X max	± 3.5 mm
X var	± 3.0 mm
Mms	12 g
Bl	11.7 T·m
Le	0.2 mH
EBP	332 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	187 mm (7.36 in)
Bolt Circle Diameter	172 mm (6.7 in)
Baffle Cutout Diameter	145 mm (5.7 in)
Depth	87 mm (3.43 in)
Flange and Gasket Thickness	11 mm (0.4 in)
Air volume occupied by driver	0.63 dm³ (0.02 ft³)
Net Weight	1.5 kg (3.31 lb)
Shipping Weight	1.7 kg (3.75 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Service kit	RCK06MBX448

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

6NSM51

ND MIDBASS



500 W
continuous program power capacity

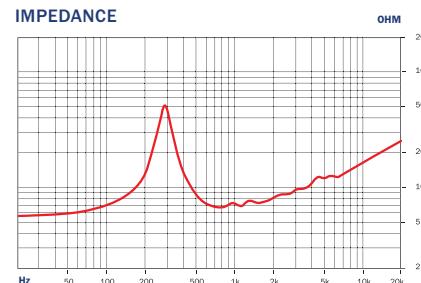
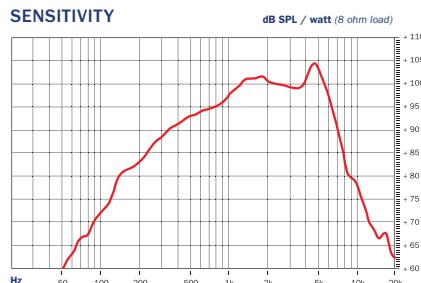
100 dB
sensitivity

51 mm (2 in)
aluminium voice coil

300 - 6000 Hz
response

Ideal for Direct Radiation and Horn Loaded Midrange application

Aluminium demodulating ring for very low distortion



SPECIFICATIONS

Nominal Diameter	170 mm (6.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.6 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	300 - 6000 Hz
Voice Coil Diameter	51 mm (2.0 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	8.5 mm (0.33 in)
Magnetic Gap Depth	6.0 mm (0.24 in)
Flux Density	1.6 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	280 Hz
Re	5.4 Ω
Qes	0.68
Qms	5.4
Qts	0.6
Vas	0.7 dm³ (0.02 ft³)
Sd	143.0 cm² (22.17 in²)
η_0	2.2 %
X max	± 2.8 mm
X var	± 3.0 mm
Mms	13.5 g
Bl	13.9 T·m
Le	0.15 mH
EBP	411 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	187 mm (7.36 in)
Bolt Circle Diameter	172 mm (6.77 in)
Baffle Cutout Diameter	151.0 mm (5.94 in)
Depth	113 mm (4.45 in)
Flange and Gasket Thickness	11 mm (0.43 in)
Air volume occupied by driver	2.0 dm³ (0.07 ft³)
Net Weight	2.7 kg (5.95 lb)
Shipping Weight	2.95 kg (6.5 lb)
Shipping Box	221x214x130 mm (8.70x8.43x5.12 in)
Service kit	RCK06NSM518

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

6NDL38

ND WOOFER



300 W
continuous program
power capacity

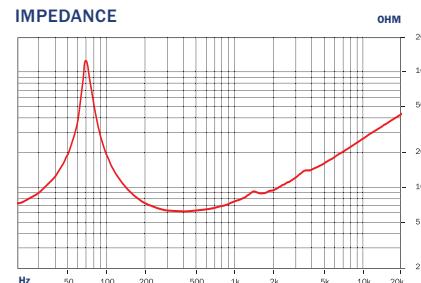
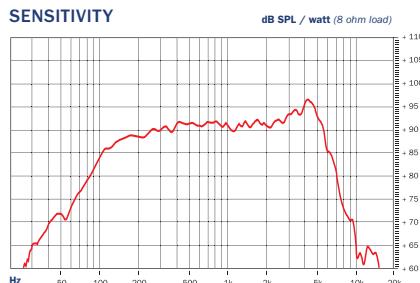
92 dB
sensitivity

38 mm (1.5 in)
copper voice coil

70 - 6000 Hz
response

Neodymium magnet
allows a very
light yet powerful
motor assembly

Aluminium
demodulating ring
for very low distortion



SPECIFICATIONS

Nominal Diameter	170 mm (6.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6 Ω
Power Handling	
Nominal (AES) ¹	150 W
Continuous Program ²	300 W
Sensitivity (1W/1m) ³	92 dB
Frequency Range	70 - 6000 Hz
Voice Coil Diameter	38 mm (1.5 in)
Winding Material	Copper
Former Material	Kapton
Winding Depth	12 mm (0.5 in)
Magnetic Gap Depth	6 mm (0.25 in)
Flux Density	1.15 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	72 Hz
Re	5.2 Ω
Qes	0.44
Qms	11.5
Qts	0.42
Vas	7 dm³ (0.25 ft³)
Sd	132 cm² (20.5 in²)
η_0	0.6 %
X max	± 6 mm
X var	± 5.5 mm
Mms	17 g
Bl	9.5 T·m
Le	0.6 mH
EBP	163 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	187 mm (7.4 in)
Bolt Circle Diameter	172 mm (6.7 in)
Baffle Cutout Diameter	145 mm (5.7 in)
Depth	85 mm (3.3 in)
Flange and Gasket Thickness	11 mm (0.4 in)
Air volume occupied by driver	0.63 dm³ (0.02 ft³)
Net Weight	1.2 kg (2.6 lb)
Shipping Weight	1.4 kg (3.09 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Service kit	RCK06NDL388

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ SPL from 500 to 5000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request

8NSM64

ND MIDRANGE



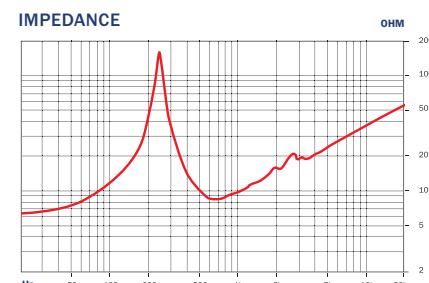
500 W
continuous program
power capacity

64 mm (2.52 in)
aluminium voice coil

Ideal for Direct Radiation
and Horn Loaded
Midrange application

100 dB
sensitivity

245 - 2000 Hz
response



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.2 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	245 - 2000 Hz
Voice Coil Diameter	64 mm (2.52 in)
Winding Material	Aluminum
Former Material	Glass Fibre
Winding Depth	13 mm (0.51 in)
Magnetic Gap Depth	10 mm (0.39 in)
Flux Density	1.55 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	245 Hz
Re	5.7 Ω
Qes	0.35
Qms	9.3
Qts	0.34
Vas	1.5 dm³ (0.05 ft³)
Sd	220 cm² (34.1 in²)
η_0	4.5 %
X max	± 2.0 mm
X var	± 1.7 mm
Mms	19 g
Bl	22 T·m
Le	0.6 mH
EBP	700 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	239 mm (9.41 in)
Bolt Circle Diameter	222 mm (8.74 in)
Baffle Cutout Diameter	200 mm (7.87 in)
Depth	115 mm (4.53 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	3.5 dm³ (0.12 ft³)
Net Weight	4.85 kg (10.69 lb)
Shipping Weight	5.45 kg (12.02 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK008NSM648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

8MDN51

ND WOOFER



400 W
continuous program
power capacity

97 dB
sensitivity

51 mm (2 in)
copper voice coil

70 - 4000 Hz
response

Neodymium ring
magnet assembly

Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.7 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	70 - 4000 Hz
Voice Coil Diameter	51 mm (2 in)
Winding Material	Aluminium
Former Material	Kapton
Winding Depth	16 mm (0.62 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.45 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	70 Hz
Re	5.1 Ω
Qes	0.21
Qms	3.7
Qts	0.2
Vas	16 dm³ (0.6 ft³)
Sd	220 cm² (34.1 in²)
η_0	2.4%
X max	± 6 mm
X var	± 6 mm
Mms	23 g
Bl	15.3 T·m
Le	0.8 mH
EBP	333 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	95 mm (3.74 in)
Flange and Gasket Thickness	11 mm (0.4 in)
Air volume occupied by driver	1.1 dm³ (0.04 ft³)
Net Weight	2.55 kg (5.6 lb)
Shipping Weight	3.0 kg (6.61 lb)
Shipping Box	255x255x150mm (10.04x10.04x5.91 in)
Service kit	RCK008MDN518

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 300 to 3000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

8NDL51

ND WOOFER



400 W
continuous program power capacity

94 dB
sensitivity

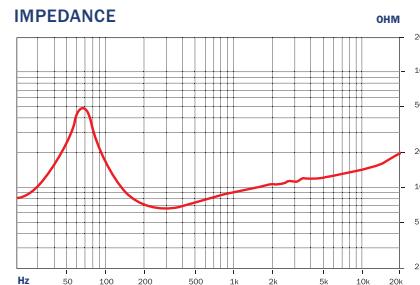
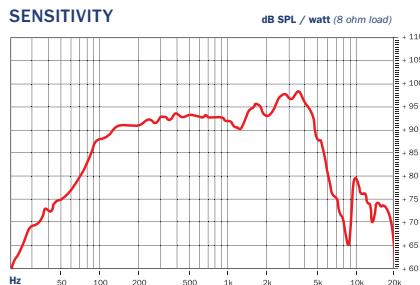
51 mm (2 in)
copper voice coil

65 - 3000 Hz
response

Neodymium magnet allows a very light yet powerful motor assembly

Shorting copper cap for extended HF response

Ventilated voice coil gap for reduced power compression



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.6 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	94 dB
Frequency Range	65 - 3000 Hz
Voice Coil Diameter	51 mm (2 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	17 mm (0.67 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.05 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	66 Hz
Re	5.3 Ω
Qes	0.41
Qms	3.6
Qts	0.37
Vas	14 dm³ (0.49 ft³)
Sd	220 cm² (34.1 in²)
η_0	1 %
X max	± 7 mm
X var	± 7 mm
Mms	28 g
Bl	12.4 T·m
Le	0.5 mH
EBP	160 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	90 mm (3.5 in)
Flange and Gasket Thickness	11 mm (0.4 in)
Air volume occupied by driver	1.1 dm³ (0.04 ft³)
Net Weight	1.8 kg (4 lb)
Shipping Weight	2.25 kg (4.96 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.90 in)
Service kit	RCK008NDL518

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ SPL from 300 to 3000 Hz.

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

8MBX51

ND MIDBASS



400 W
continuous program
power capacity

96.5 dB
sensitivity

51 mm (2 in)
aluminium coil

60 - 4000 Hz
response

Neodymium ring
magnet assembly

Aluminium
demodulating ring
for very low distortion

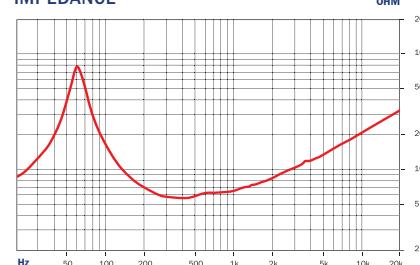
Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	5.9 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	96.5 dB
Frequency Range	60 - 4000 Hz
Voice Coil Diameter	51 mm (2 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	15 mm (0.59 in)
Magnetic Gap Depth	7 mm (0.28 in)
Flux Density	1.3 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Impregnated Cone

THIELE & SMALL PARAMETERS⁴

Fs	60 Hz
Re	4.9 Ω
Qes	0.31
Qms	5.6
Qts	0.29
Vas	23 dm³ (0.81 ft³)
Sd	220 cm² (34.1 in²)
η_0	1.7 %
X max	± 6 mm
X var	± 8 mm
Mms	20 g
Bl	11.4 T·m
Le	0.4 mH
EBP	193 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.86 in)
Bolt Circle Diameter	210 mm (8.27 in)
Baffle Cutout Diameter	187 mm (7.36 in)
Depth	93 mm (3.7 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	1.1 dm³ (0.04 ft³)
Net Weight	1.8 kg (3.97 lb)
Shipping Weight	2.25 kg (4.96 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.90 in)
Service kit	RCK008MBX518

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request

8NW51

ND WOOFER



400 W
continuous program power capacity

96.5 dB
sensitivity

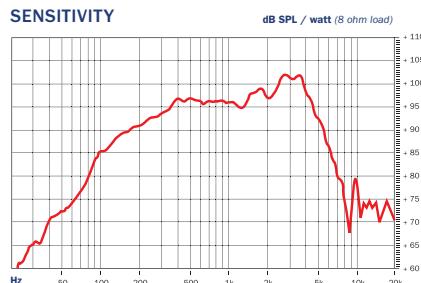
51 mm (2 in)
copper voice coil

70 - 3000 Hz
response

Neodymium ring magnet allows a very high force factor and linear excursion

Shorting copper cap for extended HF response

Ventilated voice coil gap for reduced power compression



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.7 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	96.5 dB
Frequency Range	70 - 3000 Hz
Voice Coil Diameter	51 mm (2 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	19 mm (0.75 in)
Magnetic Gap Depth	10 mm (0.4 in)
Flux Density	1.3 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	74 Hz
Re	5.2 Ω
Qes	0.19
Qms	2.7
Qts	0.17
Vas	11 dm³ (0.4 ft³)
Sd	220 cm² (34.1 in²)
η_0	2.4 %
X max	± 6 mm
X var	± 6 mm
Mms	28 g
Bl	18.9 T·m
Le	0.4 mH
EBP	389 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	100 mm (4 in)
Flange and Gasket Thickness	11 mm (0.4 in)
Air volume occupied by driver	1.1 dm³ (0.04 ft³)
Net Weight	3 kg (6.6 lb)
Shipping Weight	3.45 kg (7.6 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.90 in)
Service kit	RCK008NW518

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 400 to 2500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

8NDL64

ND WOOFER



700 W
continuous program power capacity

97 dB
sensitivity

64 mm (2.5 in)
copper voice coil

80 - 4000 Hz
response

Neodymium inside slug magnet assembly

Shorting copper cap for extended HF response

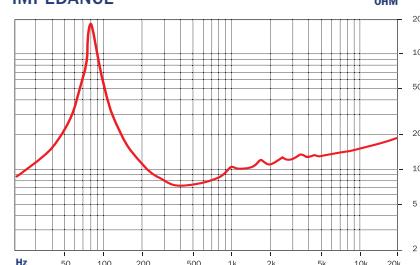
Ventilated voice coil gap for reduced power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.2 Ω
Power Handling	
Nominal (AES) ¹	350 W
Continuous Program ²	700 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	80 - 4000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	14 mm (0.55 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	80 Hz
Re	5.4 Ω
Qes	0.25
Qms	10.91
Qts	0.25
Vas	9.6 dm³ (0.34 ft³)
Sd	220 cm² (34.1 in²)
η_0	1.88 %
X max	± 4.5 mm
X var	± 5.0 mm
Mms	28 g
Bl	17.5 T·m
Le	0.62 mH
EBP	320 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	95 mm (3.74 in)
Flange and Gasket Thickness	10 mm (0.39 in)
Air volume occupied by driver	1.5 dm³ (0.05 ft³)
Net Weight	2.8 kg (6.17 lb)
Shipping Weight	3.25 kg (7.17 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.90 in)
Service kit	RCK008NDL648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request

8BG51

ND WOOFER



500 W
continuous program power capacity

92 dB
sensitivity

51 mm (2 in)
copper voice coil

50 - 4000 Hz
response

Neodymium magnet allows a very light yet powerful motor assembly

Shorting copper cap for extended HF response

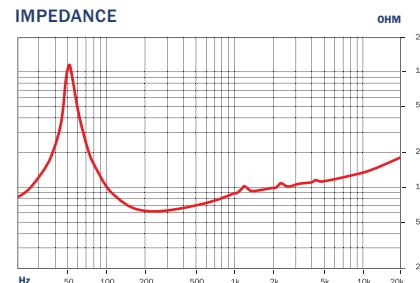
Ventilated voice coil gap for reduced power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.0 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	92 dB
Frequency Range	50 - 4000 Hz
Voice Coil Diameter	51 mm (2 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	17 mm (0.65 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.15 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	52 Hz
Re	5.1 Ω
Qes	0.42
Qms	12.3
Qts	0.4
Vas	18 dm³ (0.63 ft³)
Sd	220 cm² (34.1 in²)
η_0	0.6 %
X max	± 6.5 mm
X var	± 8.0 mm
Mms	35 g
Bl	11.8 T·m
Le	0.5 mH
EBP	123 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	90 mm (3.5 in)
Flange and Gasket Thickness	11 mm (0.43 in)
Air volume occupied by driver	1.1 dm³ (0.04 ft³)
Net Weight	1.8 kg (4.0 lb)
Shipping Weight	2.25 kg (4.96 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.90 in)
Service kit	RCK008BG518

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request

10NSM76

ND MIDRANGE



800 W
continuous program power capacity

100 dB
sensitivity

76 mm (3 in)
aluminium voice coil

235 - 3500 Hz
response

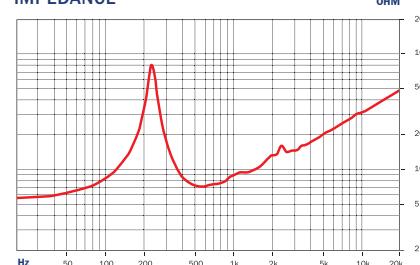
Ideal for Direct Radiation and Horn Loaded Midrange application



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.0 Ω
Power Handling	
Nominal (AES) ¹	400 W
Continuous Program ²	800 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	235 - 3500 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	11 mm (0.45 in)
Magnetic Gap Depth	9 mm (0.35 in)
Flux Density	1.6 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	235 Hz
Re	5.2 Ω
Qes	0.55
Qms	8.6
Qts	0.52
Vas	2 dm³ (0.07 ft³)
Sd	320 cm² (49.6 in²)
η_0	4.5 %
X max	± 3.5 mm
X var	± 3.5 mm
Mms	33 g
Bl	21.5 T·m
Le	0.9 mH
EBP	427 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	291 mm (11.46 in)
Bolt Circle Diameter	274 mm (10.79 in)
Baffle Cutout Diameter	234 mm (9.21 in)
Depth	130 mm (5.12 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Air volume occupied by driver	5.0 dm³ (0.18 ft³)
Net Weight	3.75 kg (8.27 lb)
Shipping Weight	4.65 kg (10.25 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCk10NSM76

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

10MBX64

ND MIDBASS



700 W
continuous program power capacity

100 dB
sensitivity

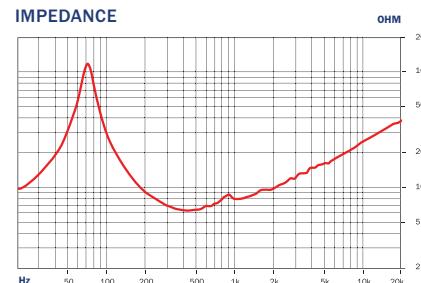
64 mm (2.5 in)
aluminium voice coil

65 - 6000 Hz
response

Neodymium inside slug magnet assembly

Aluminium demodulating ring for very low distortion

Ventilated voice coil gap for reduced power compression



SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	350 W
Continuous Program ²	700 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	65 - 6000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	12 mm (0.47 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Impregnated Cone

THIELE & SMALL PARAMETERS⁴

Fs	65 Hz
Re	5.5 Ω
Qes	0.27
Qms	5.6
Qts	0.26
Vas	28 dm ³ (0.99 ft ³)
Sd	346 cm ² (53.63 in ²)
η_0	3.2 %
X max	± 4.0 mm
X var	± 5.5 mm
Mms	32 g
Bl	16.9 T·m
Le	0.39 mH
EBP	240 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.28 in)
Bolt Circle Diameter	245 mm (9.6 in)
Baffle Cutout Diameter	230 mm (9 in)
Depth	125 mm (4.92 in)
Flange and Gasket Thickness	14 mm (0.5 in)
Air volume occupied by driver	1.5 dm ³ (0.05 ft ³)
Net Weight	3.2 kg (7.05 lb)
Shipping Weight	3.8 kg (8.38 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK10MBX648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 300 to 3000 Hz.

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request

10CLA64

ND WOOFER



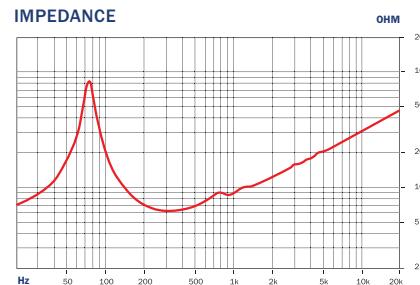
500 W
continuous program
power capacity

64 mm (2.5 in)
copper clad aluminum
voice coil

Ventilated voice
coil gap for reduced
power compression

96 dB
sensitivity

75 - 4000 Hz
response



SPECIFICATIONS

Nominal Diameter	250 mm (10.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	5.5 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	96.0 dB
Frequency Range	75 - 4000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	14.0 mm (0.55 in)
Magnetic Gap Depth	8.0 mm (0.31 in)
Flux Density	1.15 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

F _s	74 Hz
R _e	6.3 Ω
Q _{es}	0.45
Q _{ms}	6.8
Q _{ts}	0.42
V _{as}	18.5 dm³ (0.65 ft³)
S _d	320.0 cm² (49.6 in²)
η ₀	1.65 %
X _{max}	± 5.0 mm
X _{var}	± 5.0 mm
M _{mss}	36.0 g
B _i	14.5 T·m
L _e	0.9 mH
E _{BP}	164 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	257 mm (10.12 in)
Bolt Circle Diameter	245 mm (9.65 in)
Baffle Cutout Diameter	232.0 mm (9.13 in)
Depth	111 mm (4.39 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	1.0 dm³ (0.04 ft³)
Net Weight	1.9 kg (4.19 lb)
Shipping Weight	2.5 kg (5.51 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK10CLA648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

10HPL64

ND WOOFER



400 W
continuous program power capacity

64 mm (2.5 in)
aluminium voice coil

Neodymium magnet allows a very light yet powerful motor assembly

98.5 dB
sensitivity

60 - 4000 Hz
response



SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.2 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	98.5 dB
Frequency Range	60 - 4000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	12 mm (0.47 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	None

THIELE & SMALL PARAMETERS⁴

Fs	61 Hz
Re	5.4 Ω
Qes	0.33
Qms	4.5
Qts	0.31
Vas	32 dm ³ (1.1 ft ³)
Sd	320 cm ² (50 in ²)
η_0	2.5 %
X max	± 4 mm
X var	± 5.5 mm
Mms	29 g
Bl	15 T·m
Le	0.5 mH
EBP	184 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.3 in)
Bolt Circle Diameter	245 mm (9.6 in)
Baffle Cutout Diameter	230 mm (9.1 in)
Depth	122 mm (4.8 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Air volume occupied by driver	1.5 dm ³ (0.05 ft ³)
Net Weight	2 kg (4.4 lb)
Shipping Weight	2.6 kg (5.7 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK010HPL648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 200 to 4000 Hz.

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request

10NDL64

ND WOOFER



500 W
continuous program
power capacity

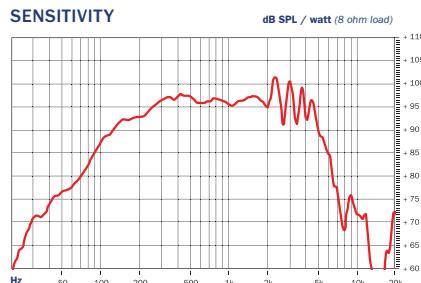
97 dB
sensitivity

64 mm (2.5 in)
aluminium voice coil

50 - 3000 Hz
response

Neodymium magnet
allows a very
light yet powerful
motor assembly

Ventilated voice
coil gap for reduced
power compression



SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 Ω
Minimum Impedance	7 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	50 - 3000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	14 mm (0.55 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	56 Hz
Re	5.7 Ω
Qes	0.29
Qms	3.4
Qts	0.26
Vas	31 dm ³ (1.1 ft ³)
Sd	320 cm ² (50 in ²)
η_0	1.8 %
X max	± 6 mm
X var	± 7 mm
Mms	37 g
Bl	16.2 T·m
Le	0.9 mH
EBP	193 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.3 in)
Bolt Circle Diameter	245 mm (9.64 in)
Baffle Cutout Diameter	230 mm (9.1 in)
Depth	113 mm (4.4 in)
Flange and Gasket Thickness	13 mm (0.5 in)
Air volume occupied by driver	1.5 dm ³ (0.05 ft ³)
Net Weight	2.9 kg (6.4 lb)
Shipping Weight	3.5 kg (7.7 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK10NDL648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 300 to 3000 Hz.

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

10NW64

ND WOOFER



600 W
continuous program
power capacity

96 dB
sensitivity

64 mm (2.5 in)
copper voice coil

60 - 2500 Hz
response

Neodymium magnet
allows a very
light yet powerful
motor assembly

Shorting copper cap for
extended HF response

Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	300 W
Continuous Program ²	600 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	60 - 2500 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	16 mm (0.62 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	59 Hz
Re	5.2 Ω
Qes	0.27
Qms	4.3
Qts	0.26
Vas	22.0 dm ³ (0.78 ft ³)
Sd	320 cm ² (49.6 in ²)
η_0	1.6 %
X max	± 6.0 mm
X var	± 5.5 mm
Mms	47 g
Bl	18.3 T·m
Le	0.65 mH
EBP	218 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.3 in)
Bolt Circle Diameter	245 mm (9.6 in)
Baffle Cutout Diameter	230 mm (9.1 in)
Depth	113 mm (4.4 in)
Flange and Gasket Thickness	13 mm (0.5 in)
Air volume occupied by driver	1.5 dm ³ (0.05 ft ³)
Net Weight	2.9 kg (6.4 lb)
Shipping Weight	3.5 kg (7.7 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK10NW648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 250 to 2500 Hz.

Average SPL from 250 to 2500 Hz.
Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request

10NW76

ND WOOFER



800 W
continuous program
power capacity

96.5 dB
sensitivity

76 mm (3 in)
copper clad aluminum
wire voice coil

65 - 3500 Hz
response

Neodymium magnet
allows a very
light yet powerful
motor assembly

Aluminium
demodulating ring for
very low distortion

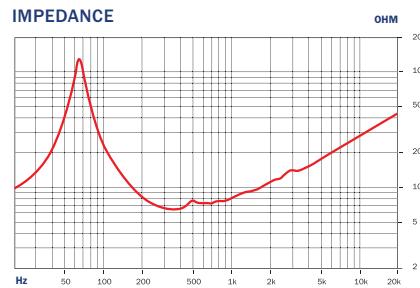
Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	250 mm (10.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.6 Ω
Power Handling	
Nominal (AES) ¹	400 W
Continuous Program ²	800 W
Sensitivity (1W/1m) ³	96.5 dB
Frequency Range	65 - 3500 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	18.5 mm (0.73 in)
Magnetic Gap Depth	10.0 mm (0.39 in)
Flux Density	1.35 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	67 Hz
Re	5.5 Ω
Qes	0.27
Qms	7.8
Qts	0.26
Vas	17.6 dm³ (0.62 ft³)
Sd	320.0 cm² (49.6 in²)
η_0	1.85 %
X max	± 6.8 mm
X var	± 7.0 mm
Mms	47.0 g
Bl	20.0 T·m
Le	0.38 mH
EBP	248 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.28 in)
Bolt Circle Diameter	246 mm (9.69 in)
Baffle Cutout Diameter	233.0 mm (9.17 in)
Depth	119 mm (4.69 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Air volume occupied by driver	1.5 dm³ (0.05 ft³)
Net Weight	3.8 kg (8.38 lb)
Shipping Weight	4.4 kg (9.7 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK10NW768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request

12CL64

ND WOOFER



500 W
continuous program
power capacity

64 mm (2.5 in)
copper voice coil

98 dB
sensitivity

50 - 3000 Hz
response



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	50 - 3000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	13 mm (0.51 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.15 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	52 Hz
Re	5.5 Ω
Qes	0.32
Qms	4.3
Qts	0.3
Vas	64 dm ³ (2.25 ft ³)
Sd	522 cm ² (80.9 in ²)
η_0	3.4 %
X max	± 4.5 mm
X var	± 6 mm
Mms	55 g
Bl	17.5 T·m
Le	1.1 mH
EBP	162 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	313 mm (12.32 in)
Bolt Circle Diameter	299 mm (11.77 in)
Baffle Cutout Diameter	282 mm (11.1 in)
Depth	133 mm (5.24 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	2 dm ³ (0.07 ft ³)
Net Weight	1.9 kg (4.2 lb)
Shipping Weight	2.8 kg (6.17 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12CL648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

12CLA76

ND WOOFER



700 W
continuous program
power capacity

98.5 dB
sensitivity

76 mm (3 in)
copper clad aluminum
wire voice coil

50 - 3000 Hz
response

Ventilated voice coil
gap for reduced power
compression



SPECIFICATIONS

Nominal Diameter	320 mm (12.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.1 Ω
Power Handling	
Nominal (AES) ¹	350 W
Continuous Program ²	700 W
Sensitivity (1W/1m) ³	98.5 dB
Frequency Range	50 - 3000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	16.0 mm (0.63 in)
Magnetic Gap Depth	11.0 mm (0.43 in)
Flux Density	1.2 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	52 Hz
Re	5.1 Ω
Qes	0.26
Qms	4.9
Qts	0.25
Vas	56.0 dm³ (1.98 ft³)
Sd	522.0 cm² (80.91 in²)
η_0	2.9 %
X max	± 5.3 mm
X var	± 6.5 mm
Mms	64.0 g
Bl	20.2 T·m
Le	0.44 mH
EBP	200 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	313 mm (12.32 in)
Bolt Circle Diameter	299 mm (11.77 in)
Baffle Cutout Diameter	283.0 mm (11.14 in)
Depth	143 mm (5.63 in)
Flange and Gasket Thickness	9 mm (0.37 in)
Air volume occupied by driver	2.3 dm³ (0.08 ft³)
Net Weight	3.4 kg (7.5 lb)
Shipping Weight	4.3 kg (9.48 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12CLA76

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available 12CL76 w/copper coil

12NDL76

ND WOOFER



800 W
continuous program
power capacity

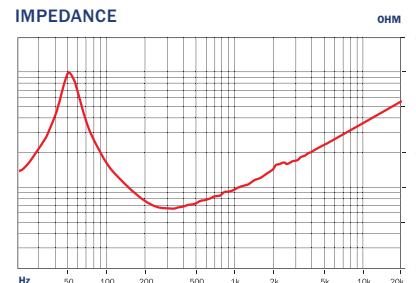
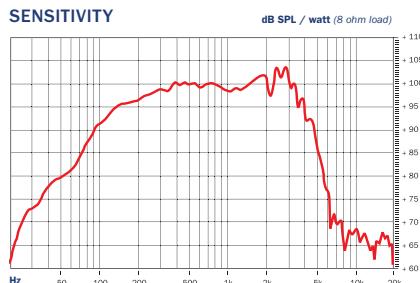
100 dB
sensitivity

76 mm (3 in)
aluminium voice coil

50 - 2000 Hz
response

Neodymium magnet
allows a very
light yet powerful
motor assembly

Ventilated voice
coil gap for reduced
power compression



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.2 Ω
Power Handling	
Nominal (AES) ¹	400 W
Continuous Program ²	800 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	50 - 2000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	19 mm (0.75 in)
Magnetic Gap Depth	10 mm (0.4 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	50 Hz
Re	5.3 Ω
Qes	0.21
Qms	4.2
Qts	0.2
Vas	73 dm³ (2.5 ft³)
Sd	522 cm² (80.9 in²)
η_0	4.3 %
X max	± 7.0 mm
X var	± 6.5 mm
Mms	53 g
Bl	20.1 T·m
Le	1.0 mH
EBP	238 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.7 in)
Baffle Cutout Diameter	283 mm (11.1 in)
Depth	141 mm (5.5 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	2.5 dm³ (0.08 ft³)
Net Weight	3.9 kg (8.6 lb)
Shipping Weight	4.8 kg (10.58 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12NDL768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 300 to 3000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request

12NW76

ND WOOFER



1000 W
continuous program
power capacity

98.5 dB
sensitivity

76 mm (3 in)
copper voice coil

40 - 2000 Hz
response

Neodymium ring
magnet allows a very
high force factor and
linear excursion

Aluminium
demodulating ring
for very low distortion

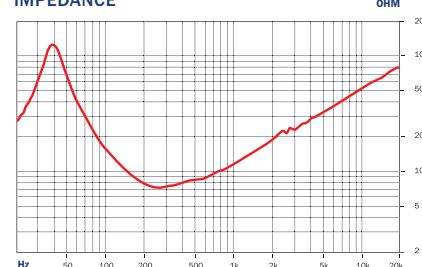
Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.9 Ω
Power Handling	
Nominal (AES) ¹	500 W
Continuous Program ²	1000 W
Sensitivity (1W/1m) ³	98.5 dB
Frequency Range	40 - 2000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	19 mm (0.75 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.3 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	40 Hz
Re	5.3 Ω
Qes	0.17
Qms	3.7
Qts	0.16
Vas	76 dm ³ (2.7 ft ³)
Sd	522 cm ² (80.9 in ²)
η_0	2.8 %
X max	± 8 mm
X var	± 10 mm
Mms	77 g
Bl	25.5 T·m
Le	1.25 mH
EBP	235 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.7 in)
Baffle Cutout Diameter	283 mm (11.1 in)
Depth	147 mm (5.8 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	2.5 dm ³ (0.08 ft ³)
Net Weight	4.9 kg (10.8 lb)
Shipping Weight	5.8 kg (12.79 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12NW768

Also available in 4 and 16 Ω, data upon request

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 300 to 3000 Hz

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

12NDL88

ND WOOFER



1400 W
continuous program
power capacity

98 dB
sensitivity

88 mm (3.5 in)
aluminium voice coil

50 - 3000 Hz
response

Aluminium
demodulating ring
for very low distortion

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	50 - 3000 Hz
Voice Coil Diameter	88 mm (3.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	21 mm (0.85 in)
Magnetic Gap Depth	10 mm (0.4 in)
Flux Density	1.15 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	51 Hz
Re	5 Ω
Qes	0.29
Qms	5
Qts	0.27
Vas	52 dm³ (1.84 ft³)
Sd	522 cm² (80.9 in²)
η_0	2.3 %
X max	± 8 mm
X var	± 9.5 mm
Mms	71 g
Bl	19.9 T·m
Le	1.3 mH
EBP	175 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.7 in)
Baffle Cutout Diameter	282 mm (11.1 in)
Depth	140 mm (5.5 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Air volume occupied by driver	2.5 dm³ (0.08 ft³)
Net Weight	4.8 (10.58 lb)
Shipping Weight	5.7 kg (12.57 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12NDL888

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request

12BG76

ND SUBWOOFER



1000 W
continuous program
power capacity

92 dB
sensitivity

76 mm (3 in)
copper voice coil

45 - 1000 Hz
response

FEA optimized
Neodymium magnet
assembly

Aluminium
demodulating ring
for very low distortion

Double silicone spider
with optimized
compliance

Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	500 W
Continuous Program ²	1000 W
Sensitivity (1W/1m) ³	92.0 dB
Frequency Range	45 - 1000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25.0 mm (0.98 in)
Magnetic Gap Depth	11.5 mm (0.45 in)
Flux Density	1.25 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	44 Hz
Re	5.4 Ω
Qes	0.44
Qms	5.9
Qts	0.41
Vas	32.0 dm ³ (1.13 ft ³)
Sd	522.0 cm ² (80.91 in ²)
η_0	0.65 %
X max	± 9.5 mm
X var	± 14.0 mm
Mms	148.0 g
Bl	22.7 T·m
Le	1.1 mH
EBP	100 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.73 in)
Baffle Cutout Diameter	284 mm (11.18 in)
Depth	159 mm (6.26 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	2.0 dm ³ (0.07 ft ³)
Net Weight	5.0 kg (11.02 lb)
Shipping Weight	5.9 kg (13.01 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12BG768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 12BG100 w/copper coil

12NBX100

ND SUBWOOFER



2000 W
continuous program
power capacity

96 dB
sensitivity

100 mm (4 in)
copper voice coil

40 - 1500 Hz
response

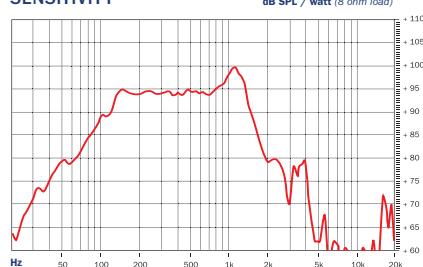
Aluminium
demodulating ring
for very low distortion

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	1000 W
Continuous Program ²	2000 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	40 - 1500 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25 mm (1 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.1 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

Also available in 4 Ω, data upon request
Also available 12 NBX 100 - 4

THIELE & SMALL PARAMETERS⁴

Fs	41 Hz
Re	5.1 Ω
Qes	0.24
Qms	3.9
Qts	0.22
Vas	51 dm³ (1.8 ft³)
Sd	531 cm² (82 in²)
η_0	1.45 %
X max	± 10 mm
X var	± 10 mm
Mms	117 g
Bl	25.6 T·m
Le	1.9 mH
EBP	170 Hz

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	320 mm (12.6 in)
Bolt Circle Diameter	300 mm (11.8 in)
Baffle Cutout Diameter	280 mm (11 in)
Depth	143 mm (5.63 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Air volume occupied by driver	4 dm³ (0.14 ft³)
Net Weight	8 kg (17.6 lb)
Shipping Weight	8.9 kg (19.62 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12NBX1008

⁴ Average SPL from 150 to 1200 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

14NDL76

ND WOOFER



1000 W
continuous program
power capacity

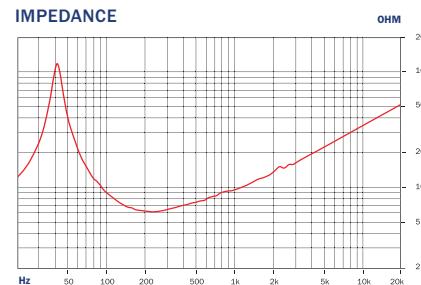
99 dB
sensitivity

76 mm (3 in)
copper voice coil

40 - 3000 Hz
response

Ventilated voice
coil gap for reduced
power compression

Aluminium
demodulating ring
for very low distortion



SPECIFICATIONS

Nominal Diameter	359 mm (13.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.1 Ω
Power Handling	
Nominal (AES) ¹	500 W
Continuous Program ²	1000 W
Sensitivity (1W/1m) ³	99 dB
Frequency Range	40 - 3000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	21 mm (0.83 in)
Magnetic Gap Depth	10 mm (0.4 in)
Flux Density	1.15 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	41 Hz
Re	5 Ω
Qes	0.31
Qms	8.2
Qts	0.3
Vas	123 dm ³ (4.34 ft ³)
Sd	707 cm ² (109.59 in ²)
η_0	2.7 %
X max	± 8 mm
X var	± 9.5 mm
Mms	85 g
Bl	19 T·m
Le	1.1 mH
EBP	132 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	359 mm (14.1 in)
Bolt Circle Diameter	343 mm (13.5 in)
Baffle Cutout Diameter	323 mm (12.7 in)
Depth	161 mm (6.34 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Air volume occupied by driver	3 dm ³ (0.11 ft ³)
Net Weight	4.5 kg (9.92 lb)
Shipping Weight	5.8 kg (12.79 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK14NDL76

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

14NDL88

ND WOOFER



1400 W
continuous program
power capacity

99 dB
sensitivity

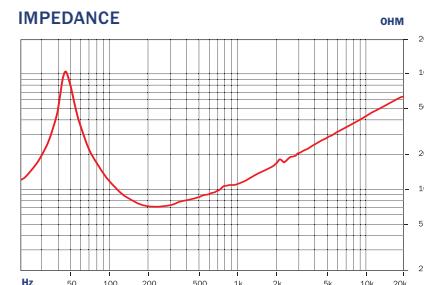
88 mm (3.5 in)
aluminium voice coil

45 - 3000 Hz
response

Ventilated voice
coil gap for reduced
power compression

Aluminium
demodulating ring
for very low distortion

Double silicone
spider with optimized
compliance



SPECIFICATIONS

Nominal Diameter	359 mm (13.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	99 dB
Frequency Range	45 - 3000 Hz
Voice Coil Diameter	88 mm (3.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	21 mm (0.85 in)
Magnetic Gap Depth	10 mm (0.4 in)
Flux Density	1.15 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	45 Hz
Re	5 Ω
Qes	0.31
Qms	7.8
Qts	0.3
Vas	102 dm³ (3.6 ft³)
Sd	707 cm² (109.6 in²)
η_0	2.9 %
X max	± 8 mm
X var	± 9.5 mm
Mms	86 g
Bl	19.9 T·m
Le	1.2 mH
EBP	145 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	359 mm (14.1 in)
Bolt Circle Diameter	343 mm (13.5 in)
Baffle Cutout Diameter	323 mm (12.7 in)
Depth	167 mm (6.57 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Air volume occupied by driver	3.5 dm³ (0.12 ft³)
Net Weight	4.7 kg (10.36 lb)
Shipping Weight	6.0 kg (13.23 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK14NDL888

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

14NA100

ND WOOFER



1600 W
continuous program
power capacity

99 dB
sensitivity

100 mm (4 in)
copper clad
aluminum voice coil

45 - 2000 Hz
response

Aluminium
demodulating ring
for very low distortion

Double silicone spider
with optimized
compliance

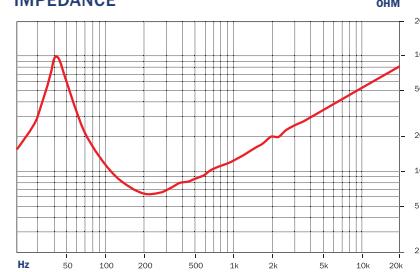
Ventilated voice coil
gap for reduced power
compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	359 mm (14 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.2 Ω
Power Handling	
Nominal (AES) ¹	800 W
Continuous Program ²	1600 W
Sensitivity (1W/1m) ³	99 dB
Frequency Range	45 - 2000 Hz
Voice Coil Diameter	100 mm (4.0 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	23.0 mm (0.91 in)
Magnetic Gap Depth	11.0 mm (0.43 in)
Flux Density	1.15 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	43 Hz
Re	5.1 Ω
Qes	0.24
Qms	5.6
Qts	0.23
Vas	99.5 dm ³ (3.51 ft ³)
Sd	707 cm ² (109.59 in ²)
η_0	3.1 %
X max	± 8.8 mm
X var	± 8.5 mm
Mms	96.5 g
Bl	23.5 T·m
Le	0.74 mH
EBP	179 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	359 mm (14.13 in)
Bolt Circle Diameter	343 mm (13.5 in)
Baffle Cutout Diameter	324.0 mm (12.76 in)
Depth	176 mm (6.93 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Air volume occupied by driver	3.5 dm ³ (0.12 ft ³)
Net Weight	8.3 kg (18.3 lb)
Shipping Weight	9.6 kg (21.16 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK14NA1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

15CLA76

ND WOOFER



700 W
continuous program power capacity

99 dB
sensitivity

76 mm (3 in)
Aluminium voice coil

40 - 3000 Hz
response

Ventilated voice coil gap for reduced power compression

Aluminium demodulating ring for very low distortion



SPECIFICATIONS

Nominal Diameter	380 mm (15.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.0 Ω
Power Handling	
Nominal (AES) ¹	350 W
Continuous Program ²	700 W
Sensitivity (1W/1m) ³	99 dB
Frequency Range	40 - 3000 Hz
Voice Coil Diameter	76 mm (3.0 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	16.0 mm (0.63 in)
Magnetic Gap Depth	11.0 mm (0.43 in)
Flux Density	1.2 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	40 Hz
Re	5.2 Ω
Qes	0.31
Qms	6.9
Qts	0.3
Vas	176 dm ³ (6.22 ft ³)
Sd	855 cm ² (132.53 in ²)
η_0	3.5 %
X max	± 5.5 mm
X var	± 7.5 mm
Mms	93 g
Bl	19.8 T·m
Le	0.5 mH
EBP	129 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	388 mm (15.28 in)
Bolt Circle Diameter	374 mm (14.72 in)
Baffle Cutout Diameter	353.0 mm (13.9 in)
Depth	171 mm (6.73 in)
Flange and Gasket Thickness	10 mm (0.39 in)
Air volume occupied by driver	4.4 dm ³ (0.16 ft ³)
Net Weight	3.9 kg (8.6 lb)
Shipping Weight	5.2 kg (11.46 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15CLA768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

15NDL76

ND WOOFER



1000 W
continuous program
power capacity

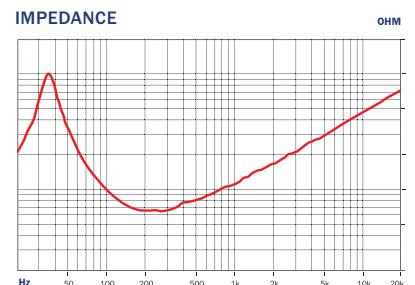
99.5 dB
sensitivity

76 mm (3 in)
copper voice coil

40 - 2000 Hz
response

Neodymium magnet
allows a very
light yet powerful
motor assembly

Ventilated voice
coil gap for reduced
power compression



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.7 Ω
Power Handling	
Nominal (AES) ¹	500 W
Continuous Program ²	1000 W
Sensitivity (1W/1m) ³	99.5 dB
Frequency Range	40 - 2000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	18 mm (0.68 in)
Magnetic Gap Depth	11 mm (0.4 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	37 Hz
Re	5.3 Ω
Qes	0.24
Qms	4.5
Qts	0.22
Vas	195 dm ³ (6.8 ft ³)
Sd	855 cm ² (132.5 in ²)
η_0	4.1 %
X max	± 7 mm
X var	± 9 mm
Mms	96 g
Bl	22.5 T·m
Le	1.5 mH
EBP	154 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	171 mm (6.7 in)
Flange and Gasket Thickness	16 mm (0.62 in)
Air volume occupied by driver	3.5 dm ³ (0.12 ft ³)
Net Weight	4.6 kg (10.1 lb)
Shipping Weight	5.9 kg (13 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15NDL76

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 200 to 2000 Hz.

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

15NW76

ND WOOFER



1200 W
continuous program
power capacity

100.5 dB
sensitivity

76 mm (3 in)
copper voice coil

40 - 2000 Hz
response

Aluminium
demodulating ring
for very low distortion

Neodymium ring
magnet allows a very
high force factor and
linear excursion

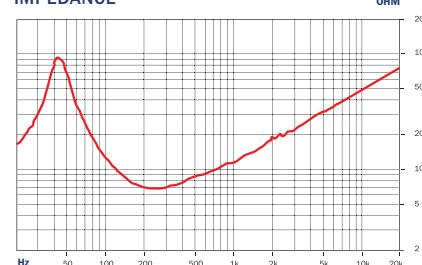
Double silicone
spider with optimized
compliance



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.9 Ω
Power Handling	
Nominal (AES) ¹	600 W
Continuous Program ²	1200 W
Sensitivity (1W/1m) ³	100.5 dB
Frequency Range	40 - 2000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	19 mm (0.75 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.3 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	42 Hz
Re	5.3 Ω
Qes	0.23
Qms	4.3
Qts	0.22
Vas	130 dm ³ (4.5 ft ³)
Sd	855 cm ² (132.5 in ²)
η_0	4.4 %
X max	± 8 mm
X var	± 10 mm
Mms	104 g
Bl	25.5 T·m
Le	1.25 mH
EBP	182 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	177 mm (7.0 in)
Flange and Gasket Thickness	16 mm (0.62 in)
Air volume occupied by driver	3.7 dm ³ (0.13 ft ³)
Net Weight	5.6 kg (12.3 lb)
Shipping Weight	6.9 kg (15.21 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15NW768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 200 to 2000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

15NDL88

ND WOOFER



1400 W
continuous program
power capacity

99 dB
sensitivity

88 mm (3.5 in)
aluminium voice coil

45 - 3000 Hz
response

Double silicone
spider with optimized
compliance

Aluminium
demodulating ring
for very low distortion

Ventilated voice
coil gap for reduced
power compression



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	99 dB
Frequency Range	45 - 3000 Hz
Voice Coil Diameter	88 mm (3.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	21 mm (0.85 in)
Magnetic Gap Depth	10 mm (0.39 in)
Flux Density	1.15 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	45 Hz
Re	5 Ω
Qes	0.36
Qms	6.1
Qts	0.34
Vas	126 dm ³ (4.45 ft ³)
Sd	855 cm ² (132.5 in ²)
η_0	3.1 %
X max	± 8 mm
X var	± 10 mm
Mms	102 g
Bl	20.1 T·m
Le	1.25 mH
EBP	125 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	177 mm (6.97 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Air volume occupied by driver	3.5 dm ³ (0.12 ft ³)
Net Weight	4.6 kg (10.1 lb)
Shipping Weight	5.9 kg (13 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15NDL888

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

15NA100

ND WOOFER



1600 W
continuous program
power capacity

98 dB
sensitivity

100 mm (4 in)
aluminium voice coil

45 - 2000 Hz
response

FEA optimized
Neodymium magnet
assembly

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.6 Ω
Power Handling	
Nominal (AES) ¹	800 W
Continuous Program ²	1600 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	45 - 2000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	23 mm (0.9 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.2 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	47 Hz
Re	5.1 Ω
Qes	0.29
Qms	6.1
Qts	0.28
Vas	88 dm³ (3.1 ft³)
Sd	855 cm² (132.5 in²)
η_0	2.9 %
X max	± 10 mm
X var	± 9 mm
Mms	136 g
Bl	26.3 T·m
Le	1.2 mH
EBP	162 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	180 mm (7.09 in)
Flange and Gasket Thickness	16 mm (0.62 in)
Air volume occupied by driver	6 dm³ (0.21 ft³)
Net Weight	9.3 kg (20.5 lbs)
Shipping Weight	10.6 kg (23.37 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15NA1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 200 to 2000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

15BG100

ND SUBWOOFER



2000 W
continuous program
power capacity

94.5 dB
sensitivity

100 mm (4 in)
copper voice coil

35 - 1000 Hz
response

Aluminium
demodulating ring
for very low distortion

FEA optimized
Neodymium magnet
assembly

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6 Ω
Power Handling	
Nominal (AES) ¹	1000 W
Continuous Program ²	2000 W
Sensitivity (1W/1m) ³	94.5 dB
Frequency Range	35 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	27 mm (1.06 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	36 Hz
Re	5.1 Ω
Qes	0.49
Qms	5.0
Qts	0.44
Vas	83 dm ³ (2.93 ft ³)
Sd	855 cm ² (132.5 in ²)
η_0	0.8 %
X max	± 10.5 mm
X var	± 14 mm
Mms	240 g
Bl	23 T·m
Le	1.6 mH
EBP	73 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	189 mm (7.45 in)
Flange and Gasket Thickness	24 mm (0.94 in)
Air volume occupied by driver	6 dm ³ (0.21 ft ³)
Net Weight	8.6 kg (18.9 lb)
Shipping Weight	9.9 kg (21.83 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15BG1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 100 to 500Hz.

Average SPL from 100 to 500Hz.
Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

15NBX100

ND SUBWOOFER



2000 W
continuous program
power capacity

97 dB
sensitivity

100 mm (4 in)
copper voice coil

35 - 1500 Hz
response

Aluminium
demodulating ring
for very low distortion

Double silicone
spider with optimized
compliance

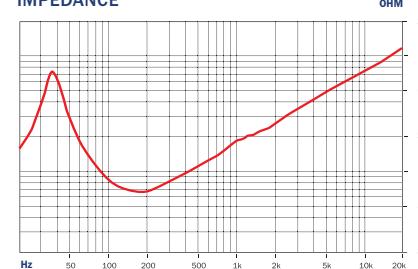
Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.4 Ω
Power Handling	
Nominal (AES) ¹	1000 W
Continuous Program ²	2000 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	35 - 1500 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25 mm (1.0 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.1 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	36 Hz
Re	5.1 Ω
Qes	0.31
Qms	4.2
Qts	0.29
Vas	125 dm ³ (4.4 ft ³)
Sd	855 cm ² (132.5 in ²)
η_0	2 %
X max	± 10 mm
X var	± 10 mm
Mms	151 g
Bl	25 T·m
Le	2 mH
EBP	116 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (16.7 in)
Baffle Cutout Diameter	353 mm (13.9 in)
Depth	179 mm (7.05 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	6 dm ³ (0.21 ft ³)
Net Weight	9 kg (19.8 lb)
Shipping Weight	10.3 kg (22.71 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15NBX1008

Also available in 4 Ω, data upon request

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 150 to 1500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

15DS100

ND SUBWOOFER



3000 W
continuous program
power capacity

97 dB
sensitivity

100 mm (4 in)
four layer aluminum
voice coil

39 - 1000 Hz
response

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.2 Ω
Power Handling	
Nominal (AES) ¹	1500 W
Continuous Program ²	3000 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	39 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	37 mm (1.46 in)
Magnetic Gap Depth	16 mm (0.63 in)
Flux Density	0.7 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	39 Hz
Re	4.5 Ω
Qes	0.27
Qms	7.75
Qts	0.26
Vas	76 dm ³ (2.68 ft ³)
Sd	855 cm ² (132.53 in ²)
η_0	1.77 %
X max	± 14.5 mm
X var	± 14 mm
Mms	220 g
Bl	30.68 T·m
Le	4.6 mH
EBP	144 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.47 in)
Bolt Circle Diameter	374 mm (16.7 in)
Baffle Cutout Diameter	353.0 mm (13.9 in)
Depth	190 mm (7.5 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	6 dm ³ (0.21 ft ³)
Net Weight	9.6 kg (21.16 lb)
Shipping Weight	10.9 kg (24.03 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15DS1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

15SW115

ND SUBWOOFER



3400 W
continuous program
power capacity

96 dB
sensitivity

116 mm (4.5 in)
split winding
copper voice coil

35 - 1500 Hz
response

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	1700 W
Continuous Program ²	3400 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	35 - 1500 Hz
Voice Coil Diameter	116 mm (4.5 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	34 mm (1.33 in)
Magnetic Gap Depth	14 mm (0.55 in)
Flux Density	1.15 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

F _s	35 Hz
R _e	5.2 Ω
Q _{es}	0.25
Q _{ms}	4.4
Q _{ts}	0.24
V _{as}	110 dm ³ (3.9 ft ³)
S _d	855 cm ² (132.5 in ²)
η ₀	1.8 %
X _{max}	± 13.5 mm
X _{var}	± 13 mm
M _{ms}	200 g
B _i	30 T·m
L _e	1.8 mH
E _{BP}	140 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (16.7 in)
Baffle Cutout Diameter	353 mm (13.9 in)
Depth	193 mm (7.6 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	7 dm ³ (0.25 ft ³)
Net Weight	12 kg (26.4 lb)
Shipping Weight	13.3 kg (29.32 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15SW1158

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 100 to 1000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

15DS115

ND SUBWOOFER



3200 W
continuous program
power capacity

97 dB
sensitivity

116 mm (4.5 in)
four layer
aluminum voice coil

35 - 1000 Hz
response

Neodymium magnet
allows a very high force
factor and linear
excursion

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.2 Ω
Power Handling	
Nominal (AES) ¹	1600 W
Continuous Program ²	3200 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	35 - 1000 Hz
Voice Coil Diameter	116 mm (4.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	40.0 mm (1.57 in)
Magnetic Gap Depth	14.0 mm (0.55 in)
Flux Density	0.8 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	33 Hz
Re	4.9 Ω
Qes	0.18
Qms	5.2
Qts	0.17
Vas	94 dm ³ (3.32 ft ³)
Sd	855 cm ² (132.53 in ²)
η_0	1.9 %
X max	± 16.5 mm
X var	± 14 mm
Mms	254 g
Bl	38.7 T·m
Le	4.5 mH
EBP	183 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	375 mm (14.8 in)
Baffle Cutout Diameter	354 mm (13.94 in)
Depth	199 mm (7.83 in)
Flange and Gasket Thickness	15 mm (0.59 in)
Air volume occupied by driver	7 dm ³ (0.25 ft ³)
Net Weight	11.6 kg (25.57 lb)
Shipping Weight	12.9 kg (28.44 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15DS1158

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

18NBX100

ND SUBWOOFER



2400 W
continuous program power capacity

96 dB
sensitivity

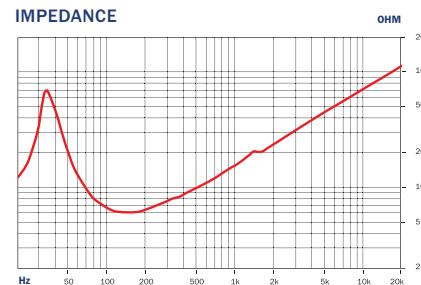
100 mm (4 in)
copper voice coil

35 - 1000 Hz
response

Double silicone spider with optimized compliance

Ventilated voice coil gap for reduced power compression

Aluminium demodulating ring for very low distortion



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6 Ω
Power Handling	
Nominal (AES) ¹	1200 W
Continuous Program ²	2400 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	35 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25 mm (1 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.1 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	35 Hz
Re	5.2 Ω
Qes	0.4
Qms	5.6
Qts	0.38
Vas	198 dm ³ (7 ft ³)
Sd	1210 cm ² (187.6 in ²)
η_0	2 %
X max	± 10 mm
X var	± 12 mm
Mms	217 g
Bl	24.8 T·m
Le	1.85 mH
EBP	87 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	440 mm (17.3 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	208 mm (8.19 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	8.5 dm ³ (0.3 ft ³)
Net Weight	9.3 kg (20.5 lb)
Shipping Weight	10.9 kg (24.03 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)
Service kit	RCK18NBX1008

Also available in 4 Ω, data upon request

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 100 to 500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

18NW100

ND SUBWOOFER



2400 W
continuous program
power capacity

98 dB
sensitivity

100 mm (4 in)
copper voice coil

35 - 1000 Hz
response

FEA optimized
Neodymium magnet
assembly allows the
highest force factor and
excursion capability

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ¹	1200 W
Continuous Program ²	2400 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	35 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25 mm (1 in)
Magnetic Gap Depth	12 mm (0.5 in)
Flux Density	1.2 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	31 Hz
Re	5.1 Ω
Qes	0.27
Qms	4.2
Qts	0.26
Vas	252 dm ³ (8.9 ft ³)
Sd	1210 cm ² (187.6 in ²)
η_0	2.7 %
X max	± 9 mm
X var	± 11 mm
Mms	211 g
Bl	28 T·m
Le	1.7 mH
EBP	114 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	440 mm (17.3 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	209 mm (8.2 in)
Flange and Gasket Thickness	16 mm (0.62 in)
Air volume occupied by driver	8.5 dm ³ (0.03 ft ³)
Net Weight	9.3 kg (20.5 lb)
Shipping Weight	10.9 kg (24.03 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)
Service kit	RCK18NW1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 100 to 1000Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

18DS100

ND SUBWOOFER



3000 W
continuous program
power capacity

97.5 dB
sensitivity

100 mm (4 in)
four layer aluminum
voice coil

34 - 1000 Hz
response

Aluminium
demodulating ring
for very low distortion

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.1 Ω
Power Handling	
Nominal (AES) ¹	1500 W
Continuous Program ²	3000 W
Sensitivity (1W/1m) ³	97.5 dB
Frequency Range	34 - 1000 Hz
Voice Coil Diameter	100 mm (4.0 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	37 mm (1.46 in)
Magnetic Gap Depth	16 mm (0.63 in)
Flux Density	0.7 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	34 Hz
Re	4.5 Ω
Qes	0.3
Qms	9.5
Qts	0.29
Vas	155 dm ³ (5.47 ft ³)
Sd	1210 cm ² (187.55 in ²)
η_0	2.1 %
X max	± 14.5 mm
X var	± 14 mm
Mms	278 g
Bl	30 T·m
Le	4.4 mH
EBP	113 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18.11 in)
Bolt Circle Diameter	443 mm (17.44 in)
Baffle Cutout Diameter	422.0 mm (16.61 in)
Depth	239 mm (9.41 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	10 dm ³ (0.35 ft ³)
Net Weight	10.5 kg (23.15 lb)
Shipping Weight	12.3 kg (27.12 lb)
Shipping Box	500x500x300 mm (19.69x19.69x11.81 in)
Service kit	RCK18DS1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

18SW115

ND SUBWOOFER



3400 W
continuous program
power capacity

97 dB
sensitivity

116 mm (4.5 in)
split winding
copper voice coil

35 - 1500 Hz
response

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

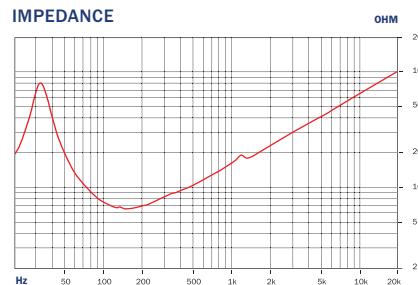
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	1700 W
Continuous Program ²	3400 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	35-1500 Hz
Voice Coil Diameter	116 mm (4.5 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	34 mm (1.33 in)
Magnetic Gap Depth	14 mm (0.55 in)
Flux Density	1.16 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	32 Hz
Re	5.3 Ω
Qes	0.32
Qms	5.6
Qts	0.3
Vas	187.0 dm³ (6.5 ft³)
Sd	1210 cm² (187.6 in²)
η_0	1.9 %
X max	± 14 mm
X var	± 16 mm
Mms	275 g
Bl	30.3 T·m
Le	1.9 mH
EBP	100 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	443 mm (17.4 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	242 mm (9.5 in)
Flange and gasket thickness	16 mm (0.62 in)
Air volume occupied by driver	10.5 dm³ (0.37 ft³)
Net Weight	11.9 Kg (26.2 lb)
Shipping Weight	13.7 kg (30.2 lb)
Shipping Box	500x500x300 mm (19.68x19.68x11.81 in)
Service kit	RCK18SW1158

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 150 to 1500 Hz.

Average SPL from 150 to 1500 Hz.
Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

18DS115

ND SUBWOOFER



3400 W
continuous program
power capacity

98 dB
sensitivity

116 mm (4.5 in)
four layer winding
aluminium voice coil

30 - 500 Hz
response

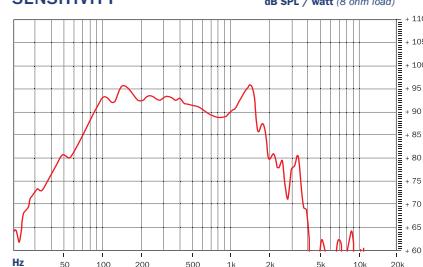
Double silicone spider
with optimized
compliance

Ventilated voice coil
gap for reduced power
compression

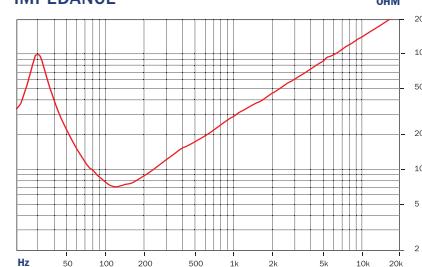
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	7 Ω
Power Handling	
Nominal (AES) ¹	1700 W
Continuous Program ²	3400 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	30 - 500 Hz
Voice Coil Diameter	116 mm (4.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	40 mm (1.57 in)
Magnetic Gap Depth	14 mm (0.55 in)
Flux Density	0.8 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	30 Hz
Re	5.0 Ω
Qes	0.21
Qms	4.3
Qts	0.2
Vas	168 dm ³ (5.93 ft ³)
Sd	1210 cm ² (187.55 in ²)
η_0	2.2 %
X max	± 16.5 mm
X var	± 14 mm
Mms	330 g
Bl	39 T·m
Le	3.85 mH
EBP	142 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18.11 in)
Bolt Circle Diameter	440 mm (17.32 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	248 mm (9.76 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	10 dm ³ (0.35 ft ³)
Net Weight	12 kg (26.46 lb)
Shipping Weight	13.6 kg (29.98 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)
Service kit	RCK18DS1158

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 100 to 500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

18IPAL

ND SUBWOOFER



3400 W
continuous program
power capacity

97 dB
sensitivity

116 mm (4.5 in)
split winding
aluminium voice coil

32 - 1000 Hz
response

Double silicone spider
with optimized
compliance

Ventilated voice coil
gap for reduced power
compression

Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	2 Ω
Minimum Impedance	2.1 Ω
Power Handling	
Nominal (AES) ¹	1700 W
Continuous Program ²	3400 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	32 - 1000 Hz
Voice Coil Diameter	116 mm (4.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	44 mm (1.7 in)
Magnetic Gap Depth	12 mm (0.47 in)
Flux Density	1.5 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	32 Hz
Re	1.3 Ω
Qes	0.14
Qms	4.2
Qts	0.14
Vas	164 dm³ (5.8 ft³)
Sd	1210 cm² (187.6 in²)
η_0	3.3 %
X max	± 20.0 mm
X var	± 15 mm
Mms	330 g
Bl	24.5 T·m
Le	0.65 mH
EBP	228 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18.0 in)
Bolt Circle Diameter	443 mm (17.4 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	261 mm (10.28 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	10.5 dm³ (0.37 ft³)
Net Weight	16.6 kg (36.6 lb)
Shipping Weight	18.9 kg (41.67 lb)
Shipping Box	570x570x320 mm (22.44x22.44x12.60 in)
Service kit	RCK18IPALM

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 1.42 V for 2 ohms Nominal Impedance

⁴ Average SPL from 100 to 1000 Hz.

Average SPL from 100 to 1000 Hz.
Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

21DS115

ND SUBWOOFER



3400 W
continuous program power capacity

99 dB
sensitivity

116 mm (4.5 in)
four layer winding aluminium voice coil

30 - 1000 Hz
response

Double silicone spider with optimized compliance

Ventilated voice coil gap for reduced power compression

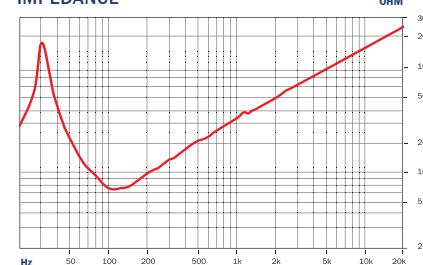
Aluminium demodulating ring for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	530 mm (21 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	1700 W
Continuous Program ²	3400 W
Sensitivity (1W/1m) ³	99 dB
Frequency Range	30 - 1000 Hz
Voice Coil Diameter	116 mm (4.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	36 mm (1.42 in)
Magnetic Gap Depth	14 mm (0.55 in)
Flux Density	0.8 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	30 Hz
Re	5.1 Ω
Qes	0.24
Qms	10.0
Qts	0.23
Vas	269.0 dm ³ (9.5 ft ³)
Sd	1680 cm ² (260.4 in ²)
η_0	3.0 %
X max	± 15 mm
X var	± 16.5 mm
Mms	407 g
Bl	40.8 T·m
Le	4.6 mH
EBP	125 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	547 mm (21.5 in)
Bolt Circle Diameter	527 mm (20.7 in)
Baffle Cutout Diameter	508 mm (20 in)
Depth	255 mm (10.04 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Air volume occupied by driver	15 dm ³ (0.53 ft ³)
Net Weight	14.8 kg (32.63 lb)
Shipping Weight	17.1 kg (37.7 lb)
Shipping Box	570x570x320 mm (22.44x22.44x12.60 in)
Service kit	RCK21DS1158

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 100 to 500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

21SW152

ND SUBWOOFER



4000 W
continuous program
power capacity

96 dB
sensitivity

153 mm (6 in)
split winding
copper voice coil

30 - 1000 Hz
response

Double silicone
spider with optimized
compliance
Ventilated voice
coil gap for reduced
power compression
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	530 mm (21 in)
Nominal Impedance	4 Ω
Minimum Impedance	4.2 Ω
Power Handling	
Nominal (AES) ¹	2000 W
Continuous Program ²	4000 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	30 - 1000 Hz
Voice Coil Diameter	153 mm (6 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	30 mm (1.18 in)
Magnetic Gap Depth	12 mm (0.5 in)
Flux Density	1.2 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	32 Hz
Re	3.3 Ω
Qes	0.31
Qms	7.0
Qts	0.3
Vas	200.0 dm ³ (7.0 ft ³)
Sd	1680 cm ² (260.4 in ²)
η_0	2.2 %
X max	± 15 mm
X var	± 16 mm
Mms	460 g
Bl	32.5 T·m
Le	1.5 mH
EBP	103 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	547 mm (21.5 in)
Bolt Circle Diameter	527 mm (20.7 in)
Baffle Cutout Diameter	508 mm (20 in)
Depth	261 mm (10.3 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	16 dm ³ (0.56 ft ³)
Net Weight	18.5 kg (40.7 lb)
Shipping Weight	20.8 kg (45.86 lb)
Shipping Box	570x570x320 mm (22.44x22.44x12.60 in)
Service kit	RCK21SW1524

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Average SPL from 100 to 500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

21IPAL

ND SUBWOOFER



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	530 mm (21.0 in)
Nominal Impedance	1 Ω
Minimum Impedance	1.1 Ω
Power Handling	
Nominal (AES) ¹	2500 W
Continuous Program ²	5000 W
Sensitivity (1W/1m) ³	99 dB
Frequency Range	37 - 1000 Hz
Voice Coil Diameter	153 mm (6.0 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	48.0 mm (1.9 in)
Magnetic Gap Depth	18.0 mm (0.7 in)
Flux Density	1.35 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	37 Hz
Re	0.7 Ω
Qes	0.22
Qms	4.9
Qts	0.21
Vas	155 dm ³ (5.47 ft ³)
Sd	1680 cm ² (260 in ²)
η_0	3.2 %
X max	± 22 mm
X var	± 15 mm
Mms	487 g
Bl	19.1 T·m
Le	0.5 mH
EBP	168 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	547 mm (21.5 in)
Bolt Circle Diameter	527 mm (20.7 in)
Baffle Cutout Diameter	508 mm (20 in)
Depth	269 mm (10.59 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Air volume occupied by driver	16 dm ³ (0.56 ft ³)
Net Weight	22.0 kg (48.5 lb)
Shipping Weight	24.3 kg (53.57 lb)
Shipping Box	570x570x320 mm (22.44x22.44x12.60 in)
Service kit	RCK21IPAL

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Coaxial loudspeakers combine the features of our best cone loudspeakers and compression drivers into a one-piece, point-source solution. Their format enables electro-acoustical designers to build very compact, versatile systems.

The majority of our more recent **FCX** and **FHX** series coaxial designs feature a single magnet structure for both the woofer and high frequency driver. This solution offers a more compact, lightweight, and cost effective solution than dual driver coaxial alternatives, with little or no impact on overall performance.

All coaxial loudspeaker cones are treated with a protective waterproof coating and a fine mesh HF driver protection screen, allowing operation in a wide range of environments. The waveguides loaded on the compression drivers are designed in accordance with the latest theories, resulting in uniform angular coverage and high acoustical load, with very low distortion.

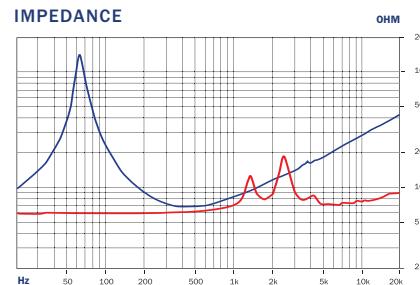
Many of our coaxial loudspeakers are available in alternative impedance configurations. Please ask your B&C representative for more information.

5FCX44

FE-ND COAXIAL




200 W continuous program power capacity	70° nominal coverage
91 dB sensitivity	60 - 18000 Hz response



SPECIFICATIONS

Nom. Diameter	127 mm (5 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.5 Ω (LF), 6.5 Ω (HF)
Frequency Range	60 - 18000 Hz
Dispersion Angle ¹	70°
Magnet Material	Ferrite (LF)/Neo Ring (HF)
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	91 dB
Power Handling Nom. (AES) ³	100 W
Continuous Program ⁴	200 W
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Copper
Flux Density	1.07 T
Former Material	Kapton
Winding Depth	9.0 mm (0.35 in)
Magnetic Gap Depth	6.0 mm (0.24 in)

HF UNIT

Sensitivity (1W/1m) ²	107.5 dB
Power Handling Nom. (AES) ³	10 W
Continuous Program ⁴	20 W

Voice Coil Diameter	25 mm (1 in)
Winding Material	Aluminium
Diaphragm Material	Polyester
Recommended Crossover ⁵	2.5 kHz
Flux Density	1.65 T
Inductance	0.1 mH

THIELE & SMALL PARAMETERS⁴

Fs	61 Hz
Re	5.6 Ω
Qes	0.25
Qms	7.8
Qts	0.25
Vas	7 dm³ (0.25 ft³)
Sd	95 cm² (14.7 in²)
η_0	0.6 %
X max	± 3 mm
X var	± 5 mm

Mms	12 g
Bl	10.5 T·m
Le	0.8 mH
EBP	244 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	136 mm (5.35 in)
Bolt Circle Diameter	142 mm (5.6 in)
Baffle Cutout Diameter	122 mm (4.8 in)
Depth	110 mm (4.33 in)
Flange and Gasket Thickness	8 mm (0.31 in)
Net Weight	1.85 kg (4.1 lb)
Shipping Weight	2.3 kg (5.07 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.90 in)

Service kit LF	RCK005FCX448
Service kit HF	MMDE58

¹ Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

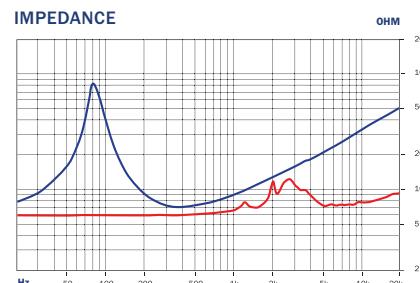
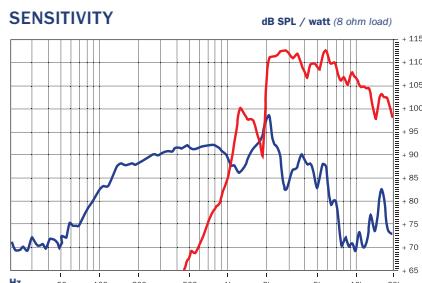
⁵ 12 dB/oct. or higher slope high-pass filter.

6FHX51

FE-ND COAXIAL



300 W continuous program power capacity	70° nominal coverage
93 dB sensitivity	85 - 18000 Hz response



SPECIFICATIONS

Nom. Diameter	170 mm (6.5 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.5 Ω (LF), 7 Ω (HF)
Frequency Range	85 - 18000 Hz
Dispersion Angle ¹	70°
Magnet Material	Ferrite (LF)/Neo Ring (HF)
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	93 dB
Power Handling Nom. (AES) ³	150 W
Continuous Program ⁴	300 W
Voice Coil Diameter	51 mm (2 in)
Winding Material	Copper
Flux Density	1.05 T
Former Material	Kapton
Winding Depth	13.0 mm (0.51 in)
Magnetic Gap Depth	6.0 mm (0.24 in)

HF UNIT

Sensitivity (1W/1m) ²	108.5 dB
Power Handling ³	10 W
Continuous Program ⁴	20 W

Voice Coil Diameter	25 mm (1 in)
Winding Material	Aluminum
Diaphragm Material	Polyester
Recommended Crossover ⁵	2.5 kHz
Flux Density	1.65 T
Inductance	0.1 mH

THIELE & SMALL PARAMETERS⁴

Fs	85 Hz
Re	5.5 Ω
Qes	0.4
Qms	7.8
Qts	0.37
Vas	5 dm³ (0.18 ft³)
Sd	132 cm² (20.5 in²)
η_0	0.83 %
X max	± 5 mm
X var	± 5.7 mm

Mms	16 g
Bl	11.3 T·m
Le	1 mH
EBP	212 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	187 mm (7.4 in)
Bolt Circle Diameter	172 mm (6.7 in)
Baffle Cutout Diameter	146 mm (5.75 in)
Depth	122 mm (4.8 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Net Weight	2.7 kg (5.9 lb)
Shipping Weight	3.15 kg (6.94 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.90 in)
Service kit LF	RCK06FHX518
Service kit HF	MMDDE58

¹ Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test made

with continuous pink noise signal within the range Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

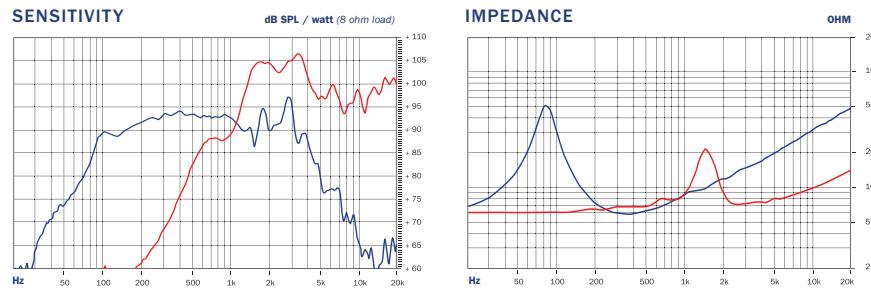
⁵ 12 dB/oct. or higher slope high-pass filter.

8CX21

FE COAXIAL



400 W continuous program power capacity	100° nominal coverage
94 dB sensitivity	75 - 20000 Hz response



SPECIFICATIONS

Nom. Diameter	210 mm (8 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.1 Ω (LF), 7.2 Ω (HF)
Frequency Range	75 - 20000 Hz
Dispersion Angle ¹	100°
Magnet Material	Ferrite Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	94 dB
Power Handling Nom. (AES) ³	200 W
Continuous Program ⁴	400 W
Voice Coil Diameter	52 mm (2 in)
Winding Material	Copper
Flux Density	1.1 T
Former Material	Kapton
Winding Depth	16.0 mm (0.63 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

HF UNIT

Sensitivity (1W/1m) ²	101 dB
Power Handling Nom. (AES) ³	25 W
Continuous Program ⁴	50 W

THIELE & SMALL PARAMETERS⁴

Fs	74 Hz
Re	5.2 Ω
Qes	0.39
Qms	4.1
Qts	0.36
Vas	15 dm³ (0.55 ft³)
Sd	220 cm² (34.1 in²)
η ₀	1.5 %
X max	± 5 mm
X var	± 5.5 mm

¹ Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test made with continuous pink noise signal within the range Fs-10Fs.

Mms	21 g
Bl	11.5 T·m
Le	1.2 mH
EBP	189 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	135 mm (5.3 in)
Flange and Gasket Thickness	11 mm (0.4 in)
Net Weight	4 kg (8.8 lb)
Shipping Weight	4.6 kg (10.14 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit LF	RCK008CX218
Service kit HF	MMD0128

made with continuous pink noise signal within the range Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request

8FCX51

FE COAXIAL



500 W
continuous program
power capacity

100°
nominal coverage

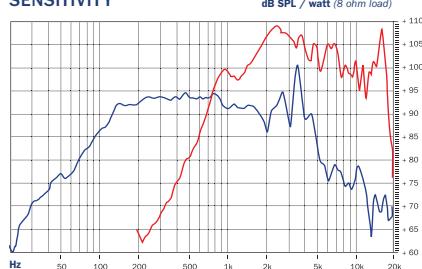
Single ferrite
magnet assembly

96 dB
sensitivity

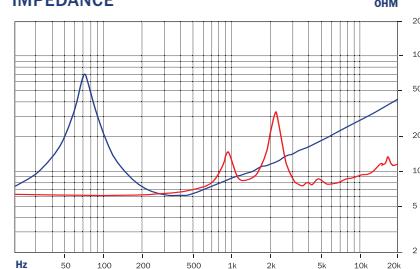
70 - 18000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	210 mm (8 in)
Nom. Impedance	8 Ω
Minimum Impedance	6 Ω (LF), 7 Ω (HF)
Frequency Range	70 - 18000 Hz
Dispersion Angle ¹	100°
Magnet Material	Ferrite Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	96 dB
Power Handling Nom. (AES) ³	250 W
Continuous Program ⁴	500 W
Voice Coil Diameter	51 mm (2 in)
Winding Material	Aluminium
Flux Density	1.0 T
Former Material	Glass Fibre
Winding Depth	17.5 mm (0.69 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

HF UNIT

Sensitivity (1W/1m) ²	104 dB
Power Handling ³	50 W
Continuous Program ⁴	100 W

VOICE COIL & SMALL PARAMETERS⁴

Fs	69 Hz
Re	4.9 Ω
Qes	0.36
Qms	6.3
Qts	0.34
Vas	16 dm³ (0.56 ft³)
Sd	220 cm² (34.1 in²)
η_0	1.4 %
X max	± 6.5 mm
X var	± 6 mm

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	118 mm (4.6 in)
Flange and Gasket Thickness	10 mm (0.37 in)
Net Weight	5.1 kg (11.2 lb)
Shipping Weight	5.7 kg (12.57 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit LF	RCK008FCX518
Service kit HF	MMD4008

¹ Included by ~6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test made

with continuous pink noise signal within the range Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

10FCX64

FE COAXIAL



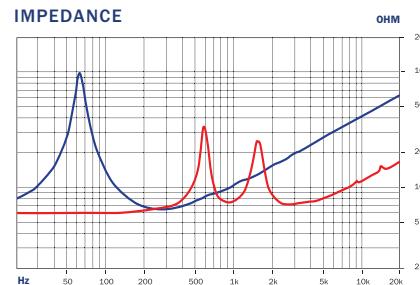
500 W
continuous program
power capacity

70°
nominal coverage

Single ferrite
magnet assembly

95 dB
sensitivity

65 - 18000 Hz
response



SPECIFICATIONS

Nom. Diameter	250 mm (10 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.4 Ω (LF), 7 Ω (HF)
Frequency Range	65 - 18000 Hz
Dispersion Angle ¹	70°
Magnet Material	Ferrite Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	95 dB
Power Handling Nom. (AES) ³	250 W
Continuous Program ⁴	500 W
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Copper
Flux Density	0.96 T
Former Material	Kapton
Winding Depth	13.0 mm (0.51 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

Voice Coil Diameter

65 mm (2.5 in)

Winding Material

Aluminium

Diaphragm Material

Titanium

Recommended Crossover⁵

1.2 kHz

Flux Density

1.6 T

Inductance

0.15 mH

THIELE & SMALL PARAMETERS⁴

Fs	63 Hz
Re	5.5 Ω
Qes	0.44
Qms	7.9
Qts	0.42
Vas	25 dm ³ (0.89 ft ³)
Sd	320 cm ² (49.1 in ²)
η ₀	1.4 %
X max	± 5.5 mm
X var	± 6 mm

Mms

37 g

Bl

13.4 T·m

Le

1.2 mH

EBP

143 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.3 in)
Bolt Circle Diameter	245 mm (9.6 in)
Baffle Cutout Diameter	230 mm (8.8 in)
Depth	140 mm (5.51 in)
Flange and Gasket Thickness	11 mm (0.43 in)
Net Weight	5.65 kg (12.8 lb)
Shipping Weight	6.55 kg (14.44 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)

Service kit LF

RCK10FCX648

Service kit HF

MMD620TN-8M

¹ Included by ~6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

12FHX76

FE COAXIAL



**FE
COAXIALS**

700 W
continuous program
power capacity

98 dB
sensitivity

60° x 40°
nominal coverage

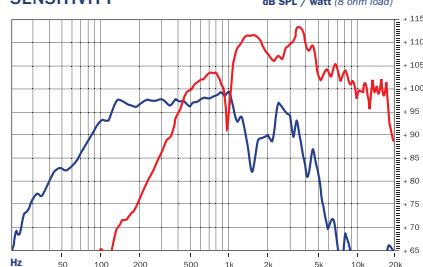
45 - 18000 Hz
response

Modified exponential
horn flare for improved
acoustic loading
and controlled coverage

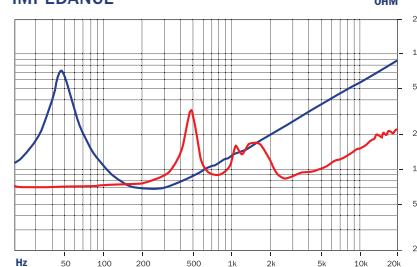
Single ferrite
magnet assembly



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	320 mm (12 in)
Nom. Impedance	8 Ω
Minimum Impedance	6 Ω (LF), 7.8 Ω (HF)
Frequency Range	45 - 18000 Hz
Dispersion Angle ¹	60° x 40°
Magnet Material	Ferrite Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	98 dB
Power Handling Nom. (AES) ³	350 W
Continuous Program ⁴	700 W
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Flux Density	1.0 T
Former Material	Glass Fibre
Winding Depth	16.5 mm (0.65 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

HF UNIT

Sensitivity (1W/1m) ²	106 dB
Power Handling Nom. (AES) ³	80 W
Continuous Program ⁴	160 W

THIELE & SMALL PARAMETERS⁴

Fs	48 Hz
Re	5.2 Ω
Qes	0.36
Qms	5.4
Qts	0.33
Vas	88 dm³ (3.1 ft³)
Sd	522 cm² (80.9 in²)
η ₀	2.7 %
X max	± 6.5 mm
X var	± 4 mm

¹ Included by ~6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test made in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

with continuous pink noise signal within the range Fs-10Fs.
LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

Also available in 4 Ω, data upon request
Also available 12FCX76 (without horn/ 80° disp.)

15FCX76

FE COAXIAL



800 W
continuous program power capacity

80°
nominal coverage

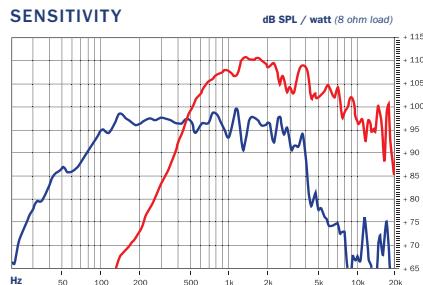
Single ferrite magnet assembly

98 dB
sensitivity

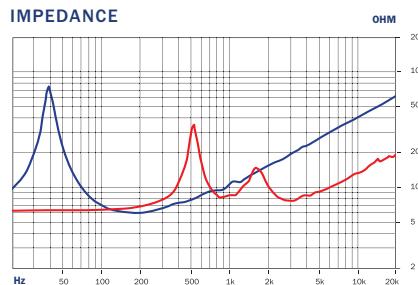
40 - 18000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	380 mm (15 in)
Nom. Impedance	8 Ω
Minimum Impedance	6 Ω (LF), 7.8 Ω (HF)
Frequency Range	40 - 18000 Hz
Dispersion Angle ¹	80°
Magnet Material	Ferrite Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	98 dB
Power Handling Nom. (AES) ³	400 W
Continuous Program ⁴	800 W
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Flux Density	1.0 T
Former Material	Glass Fibre
Winding Depth	16.5 mm (0.65 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

HF UNIT

Sensitivity (1W/1m) ²	105 dB
Power Handling Nom. (AES) ³	80 W
Continuous Program ⁴	160 W

Voice Coil Diameter **75 mm (3 in)**

Winding Material **Aluminium**

Diaphragm Material **Titanium**

Recommended Crossover⁵ **1.2 kHz**

Flux Density **1.9 T**

Inductance **0.14 mH**

Mms

87 g

Bl

15.6 T·m

Le

1.2 mH

EBP

85 Hz

THIELE & SMALL PARAMETERS⁴

Fs **40 Hz**

Re **5.2 Ω**

Qes **0.47**

Qms **8.3**

Qts **0.44**

Vas **187 dm³ (6.6 ft³)**

Sd **855 cm² (132.5 in²)**

η₀ **2.5 %**

X max **± 6.5 mm**

X var **± 7.5 mm**

MOUNTING AND SHIPPING INFORMATION

Overall Diameter **393 mm (15.5 in)**

Bolt Circle Diameter **374 mm (16.7 in)**

Baffle Cutout Diameter **353 mm (13.9 in)**

Depth **199 mm (7.83 in)**

Flange and Gasket Thickness **16 mm (0.62 in)**

Net Weight **9 kg (19.8 lb)**

Shipping Weight **10.6 kg (23.37 lb)**

Shipping Box **500x495x275 mm**

(19.68x19.48x10.83 in)

Service kit LF

RCK15FCX768

Service kit HF

MMD3BTN8M

¹ Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available 15FHX76 (with 60°x 40° horn)



Coaxial loudspeakers combine the features of our best cone loudspeakers and compression drivers into a one-piece, point-source solution. Their format enables electro-acoustical designers to build very compact, versatile systems.

The majority of our more recent **CXN** and **HGX** series coaxial designs feature a single magnet structure for both the woofer and high frequency driver. This solution offers a more compact, lightweight and cost effective solution than dual driver coaxial alternatives, with little or no impact on overall performance. The CXN series now also features a long throw, 88mm (3.5") voice coil

woofer, combined with a 75mm (3") diaphragm high frequency driver, an excellent balance between HF and LF output allowing cabinet designers to increase performance without compromise.

All coaxial loudspeaker cones are treated with a protective waterproof coating and a fine mesh HF driver protection screen, allowing operation in a wide range of environments. The waveguides loaded on the compression drivers are designed in accordance with the latest theories, resulting in uniform angular coverage and high acoustical load, with very low distortion.

4CXN36

ND COAXIAL



Neodymium magnet
allows a very light yet
powerful motor
assembly

Aluminium
demodulating ring
for very low distortion

21.5 mm (1.3")
HF unit exit
diameter

200 W
continuous program
power capacity

70°
split winding
aluminium voice coil

86 dB
sensitivity

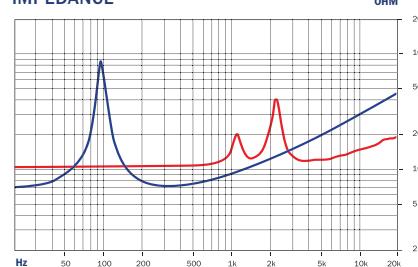
95 - 18000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	100 mm (4 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.4 Ω (LF), 11 Ω (HF)
Frequency Range	95 - 18000 Hz
Dispersion Angle ¹	70°
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

LF UNIT

Sensitivity (1W/1m) ²	86 dB
Power Handling Nom. (AES) ³	100 W
Continuous Program ⁴	200 W
Voice Coil Diameter	33 mm (1.3 in)
Winding Material	Copper
Flux Density	0.8 T
Former Material	Glass Fibre
Winding Depth	11 mm (0.43 in)
Magnetic Gap Depth	6 mm (0.24 in)

HF UNIT

Sensitivity (1W/1m) ²	99 dB
Power Handling Nom. (AES) ³	25 W
Continuous Program ⁴	50 W

Voice Coil Diameter **36 mm (1.4 in)**

Winding Material **Aluminium**

Diaphragm Material **HT Polymer**

Recommended Crossover⁵ **2.0 kHz**

Flux Density **1.5 T**

Inductance **0.14 mH**

Mms **6.8 g**

Bl **5.25 T·m**

Le **0.75 mH**

EBP **117 Hz**

THIELE & SMALL PARAMETERS⁴

Fs	94 Hz
Re	5.4 Ω
Qes	0.8
Qms	15.75
Qts	0.76
Vas	1.9 dm³ (0.07 ft³)
Sd	56.0 cm² (8.68 in²)
η ₀	0.19 %
X max	± 4 mm
X var	± 4 mm

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	127 mm (5.0 in)
Bolt Circle Diameter	114 mm (4.51 in)
Baffle Cutout Diameter	103 mm (4.06 in)
Depth	84 mm (3.31 in)
Flange and Gasket Thickness	3 mm (0.12 in)
Net Weight	0.54 kg (1.19 lb)
Shipping Weight	0.75 kg (1.65 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)

Service kit LF **RCK004CXN368**
Service kit HF **MMDDE11016**

¹ Included by ~6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

5CXN44

ND COAXIAL



300 W
continuous program
power capacity

80°
nominal coverage

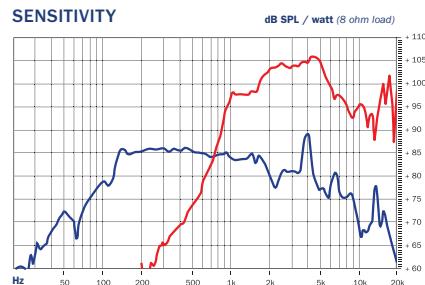
Aluminium
demodulating ring
for very low distortion

89.5 dB
sensitivity

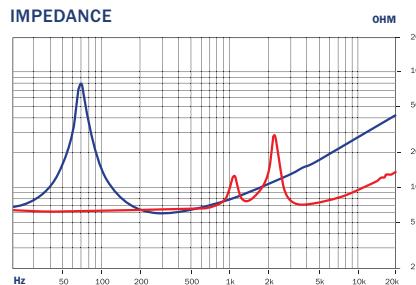
70 - 18000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	127 mm (5.0 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.1 Ω (LF), 7.5 Ω (HF)
Frequency Range	70 - 18000 Hz
Dispersion Angle ¹	80°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	89.5 dB
Power Handling Nom. (AES) ³	150 W
Continuous Program ⁴	300 W
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Copper
Flux Density	0.95 T
Former Material	Kapton
Winding Depth	14.0 mm (0.55 in)
Magnetic Gap Depth	6.0 mm (0.24 in)

HF UNIT

Sensitivity (1W/1m) ²	101 dB
Power Handling Nom. (AES) ³	25 W
Continuous Program ⁴	50 W

THIELE & SMALL PARAMETERS⁴

Fs	70 Hz
Re	4.7 Ω
Qes	0.47
Qms	9.6
Qts	0.45
Vas	4.3 dm³ (0.15 ft³)
Sd	95 cm² (14.73 in²)
η_0	0.31 %
X max	± 5.5 mm
X var	± 6 mm

¹ Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test made with continuous pink noise signal within the range Fs-10Fs.

Loudspeaker in free air.

with continuous pink noise signal within the range Fs-10Fs.

LF and HF Power calculated on rated nominal impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

6HCX51

ND COAXIAL



300 W
continuous program
power capacity

70°
nominal coverage

Single Neodymium
magnet assembly

92 dB
sensitivity

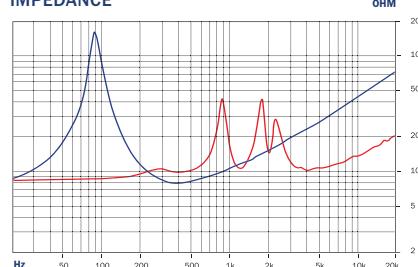
90 - 18000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	170 mm (6.5 in)
Nom. Impedance	8 Ω
Minimum Impedance	6 Ω (LF), 7.5 Ω (HF)
Frequency Range	90 - 18000 Hz
Dispersion Angle ¹	70°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Both sides

LF UNIT

Sensitivity (1W/1m) ²	92 dB
Power Handling Nom. (AES) ³	150 W
Continuous Program ⁴	300 W
Voice Coil Diameter	51 mm (2 in)
Winding Material	Copper
Flux Density	1.1 T
Former Material	Kapton
Winding Depth	13.0 mm (0.51 in)
Magnetic Gap Depth	6.0 mm (0.24 in)

HF UNIT

Sensitivity (1W/1m) ²	105 dB
Power Handling Nom. (AES) ³	25 W
Continuous Program ⁴	50 W

Voice Coil Diameter **36 mm (1.4 in)**

Winding Material **Aluminium**

Diaphragm Material **Polyester**

Recommended Crossover⁵ **2.2 kHz**

Flux Density **1.8 T**

Inductance **0.06 mH**

Mms

16 g

Bl **10.9 T·m**

Le **0.8 mH**

EBP **222 Hz**

THIELE & SMALL PARAMETERS⁴

Fs **89 Hz**

Re **5.2 Ω**

Qes **0.4**

Qms **7.5**

Qts **0.38**

Vas **5 dm³ (0.18 ft³)**

Sd **132 cm² (20.5 in²)**

η₀ **0.8 %**

X max **± 5 mm**

X var **± 5.5 mm**

OVERALL DIMENSIONS

Overall Diameter **187 mm (7.4 in)**

Bolt Circle Diameter **172 mm (6.7 in)**

Baffle Cutout Diameter **146 mm (5.7 in)**

Depth **104 mm (4.1 in)**

Flange and Gasket Thickness **11 mm (0.4 in)**

Net Weight **1.55 kg (3.4 lb)**

Shipping Weight **2.0 kg (4.41 lb)**

Shipping Box **255x255x150 mm**

(10.04x10.04x5.90 in)

Service Kit LF **RCK06HCX518**

Service Kit HF **MMD0128**

¹ Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request

8CXN51

ND COAXIAL



**ND
COAX
IALS**

500 W
continuous program
power capacity

100°
nominal coverage

Single Neodymium
magnet assembly

97 dB
sensitivity

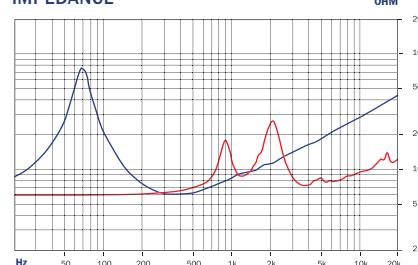
70 - 18000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	210 mm (8 in)
Nom. Impedance	8 Ω
Minimum Impedance	6 Ω (LF), 7.4 Ω (HF)
Frequency Range	70 - 18000 Hz
Dispersion Angle ¹	100°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	97 dB
Power Handling Nom. (AES) ³	250 W
Continuous Program ⁴	500 W
Voice Coil Diameter	51 mm (2 in)
Winding Material	Aluminum
Flux Density	1.15 T
Former Material	Glass Fibre
Winding Depth	17.0 mm (0.67 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

HF UNIT

Sensitivity (1W/1m) ²	104 dB
Power Handling Nom. (AES) ³	50 W
Continuous Program ⁴	100 W

Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Diaphragm Material	Polyimide
Recommended Crossover ⁵	1.8 kHz
Flux Density	1.8 T
Inductance	0.11 mH

THIELE & SMALL PARAMETERS⁴

Fs	68 Hz
Re	4.9 Ω
Qes	0.29
Qms	4.7
Qts	0.27
Vas	17 dm³ (0.60 ft³)
Sd	220 cm² (34.1 in²)
η_0	1.8 %
X max	± 6 mm
X var	± 6 mm

¹ Included by ~6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test made

Mms	22 g
Bl	12.6 T·m
Le	0.9 mH
EBP	234 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	111 mm (4.4 in)
Flange and Gasket Thickness	10 mm (0.4 in)
Net Weight	2.5 kg (5.5 lb)
Shipping Weight	3.1 kg (6.83 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit LF	RCK008CXN518
Service kit HF	MMD4008

with continuous pink noise signal within the range Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 4 and 16 Ω, data upon request

10CXN64

ND COAXIAL



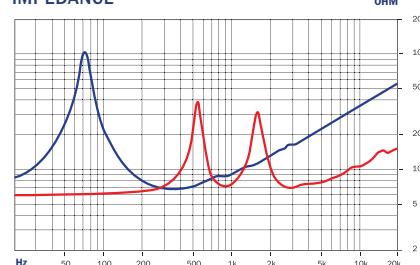
- Single Neodymium magnet assembly
- Aluminium demodulating ring for very low distortion
- 97 dB sensitivity
- 70° nominal coverage
- 70 - 18000 Hz response
- 33 mm (1.3") HF unit exit diameter



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	250 mm (10.0 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.7 Ω (LF), 7 Ω (HF)
Frequency Range	70 - 18000 Hz
Dispersion Angle ¹	70°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	97 dB
Power Handling Nom. (AES) ³	250 W
Continuous Program ⁴	500 W
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Copper
Flux Density	1.1 T
Former Material	Kapton
Winding Depth	15.0 mm (0.59 in)
Magnetic Gap Depth	9.0 mm (0.35 in)

HF UNIT

Sensitivity (1W/1m) ²	103.0 dB
Power Handling Nom. (AES) ³	80 W
Continuous Program ⁴	160 W

Voice Coil Diameter	65 mm (2.5 in)
Winding Material	Aluminium
Diaphragm Material	Titanium
Recommended Crossover ⁵	1.2 kHz
Flux Density	1.75 T
Inductance	0.15 mH

THIELE & SMALL PARAMETERS⁴

Fs	68 Hz
Re	5.6 Ω
Qes	0.33
Qms	5.6
Qts	0.31
Vas	23 dm ³ (0.81 ft ³)
Sd	320 cm ² (49.6 in ²)
η ₀	2.2 %
X max	± 5.5 mm
X var	± 5.0 mm

¹ Included by ~6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

Mms	33.5 g
Bl	15.8 T·m
Le	1.1 mH
EBP	206 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.28 in)
Bolt Circle Diameter	245 mm (9.65 in)
Baffle Cutout Diameter	233 mm (9.17 in)
Depth	142 mm (5.59 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Net Weight	3.2 kg (7.05 lb)
Shipping Weight	4.1 kg (9.04 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)

Service kit LF	RCK10CXN648
Service kit HF	MMD620TN8M

made with continuous pink noise signal within the range Fs-10Fs.

LF and HF Power calculated on rated nominal impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

12CXN76

ND COAXIAL



**ND
COAX
IALS**

700 W
continuous program
power capacity

99 dB
sensitivity

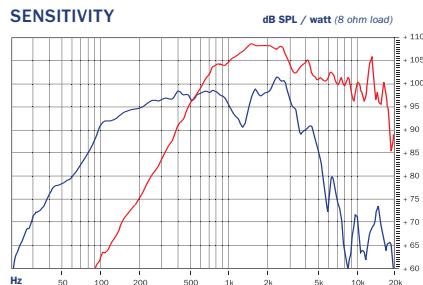
80°
nominal coverage

45 - 18000 Hz
response

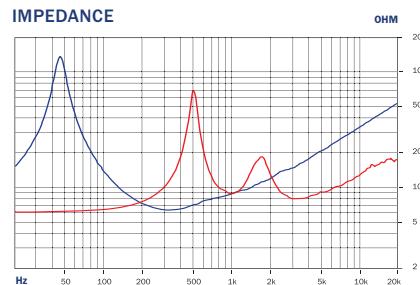
Single Neodymium
magnet assembly
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	320 mm (12 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.5 Ω (LF), 8 Ω (HF)
Frequency Range	45 - 18000 Hz
Dispersion Angle ¹	80°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	99 dB
Power Handling Nom. (AES) ³	350 W
Continuous Program ⁴	700 W
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Flux Density	1.15 T
Former Material	Glass Fibre
Winding Depth	16.2 mm (0.64 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

HF UNIT

Sensitivity (1W/1m) ²	105 dB
Power Handling Nom. (AES) ³	80 W
Continuous Program ⁴	160 W

Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Diaphragm Material	Polyester/Titanium
Recommended Crossover ⁵	1.2 kHz
Flux Density	1.9 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	42 Hz
Re	5.0 Ω
Qes	0.2
Qms	8.0
Qts	0.19
Vas	120 dm³ (4.2 ft³)
Sd	522 cm² (80.9 in²)
η ₀	4.1 %
X max	± 4 mm
X var	± 6 mm

Mms	47 g
Bl	17.6 T·m
Le	0.8 mH
EBP	210 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.7 in)
Baffle Cutout Diameter	282 mm (11.1 in)
Depth	170 mm (6.7 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Net Weight	5 kg (11 lb)
Shipping Weight	6.3 kg (13.89 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)

Service kit LF	RCK12CXN768M
Service kit HF	MMD9028M

¹ Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test made in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

with continuous pink noise signal within the range Fs-10Fs.
LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

Also available in 4 Ω, data upon request
Also available 15HCX76 (with 60°x 40° horn)

12CXN88

ND COAXIAL



1000 W
continuous program
power capacity

100 dB
sensitivity

80°
nominal coverage

50 - 18000 Hz
response

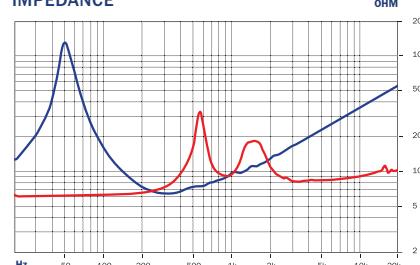
Single Neodymium
magnet assembly
Aluminium
demodulating ring
for very low distortion
Double silicone spider
with optimized
compliance



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	320 mm (12 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.6 Ω (LF), 8.5 Ω (HF)
Frequency Range	50 - 18000 Hz
Dispersion Angle ¹	80°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	100 dB
Power Handling Nom. (AES) ³	500 W
Continuous Program ⁴	1000 W
Voice Coil Diameter	88 mm (3.5 in)
Winding Material	Aluminum
Flux Density	1.05 T
Former Material	Glass Fibre
Winding Depth	21.5 mm (0.85 in)
Magnetic Gap Depth	11.0 mm (0.43 in)

HF UNIT

Sensitivity (1W/1m) ²	106 dB
Power Handling Nom. (AES) ³	80 W
Continuous Program ⁴	160 W

Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Diaphragm Material	Titanium
Recommended Crossover ⁵	1.2 kHz
Flux Density	1.75 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	50 Hz
Re	5 Ω
Qes	0.23
Qms	8.3
Qts	0.22
Vas	59 dm³ (2.08 ft³)
Sd	522 cm² (80.91 in²)
η ₀	3.6 %
X max	± 8 mm
X var	± 10.5 mm

¹ Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

Mms	60 g
Bl	20.9 T·m
Le	1.05 mH
EBP	217 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.7 in)
Baffle Cutout Diameter	284 mm (11.18 in)
Depth	178 mm (7.01 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Net Weight	6.0 kg (13.23 lb)
Shipping Weight	7.3 kg (16.09 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)

Service kit LF

RCK12CXN888

Service kit HF

MMD3DTN8M

made with continuous pink noise

signal within the range Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 4 and 16 Ω, data upon request

14CXN76

ND COAXIAL



800 W
continuous program
power capacity

100 dB
sensitivity

80°
nominal coverage

45 - 18000 Hz
response

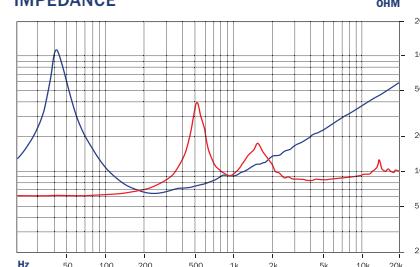
Single Neodymium
magnet assembly
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	355 mm (14 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.5 Ω (LF), 8.2 Ω (HF)
Frequency Range	45 - 18000 Hz
Dispersion Angle ¹	80°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front Side

LF UNIT

Sensitivity (1W/1m) ²	100 dB
Power Handling Nom. (AES) ³	400 W
Continuous Program	800 W
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Flux Density	1.05 T
Former Material	Glass Fibre
Winding Depth	16.5 mm (0.65 in)
Magnetic Gap Depth	9 mm (0.35 in)

HF UNIT

Sensitivity (1W/1m) ⁴	105 dB
Power Handling Nom. (AES) ⁵	80 W
Continuous Program ⁶	160 W

Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Diaphragm Material	Polyester/Titanium
Recommended Crossover ⁷	1.2 kHz
Flux Density	1.8 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	45 Hz
Re	5.2 Ω
Qes	0.29
Qms	8.5
Qts	0.28
Vas	131 dm³ (4.63 ft³)
Sd	707 cm² (109.59 in²)
η_0	4.0 %
X max	± 6 mm
X var	± 8 mm

MMS

Bl	18.4 T·m
Le	1.0 mH
EBP	155 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	359 mm (14.1 in)
Bolt Circle Diameter	343 mm (13.5 in)
Baffle Cutout Diameter	323 mm (12.7 in)
Depth	188 mm (7.4 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Net Weight	5.6 kg (12.35 lb)
Shipping Weight	6.9 kg (15.21 lb)
Shipping Box	425X425X224 mm (16.73X16.73X8.82 in)

Service kit LF

RCK14CXN768

Service kit HF

MMD902-8M

¹ Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test made

with continuous pink noise signal within the range Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available 14HCX76 (with 60°x 40° horn)

14CXN88

ND COAXIAL



**ND
COAX
IALS**

1000 W
continuous program
power capacity

99 dB
sensitivity

80°
nominal coverage

45 - 18000 Hz
response

Single Neodymium
magnet assembly

Aluminium
demodulating ring
for very low distortion

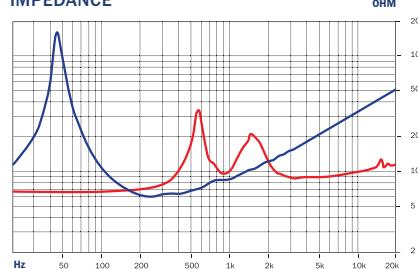
Double silicone spider
with optimized
compliance



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	359 mm (14.0 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.8 Ω (LF), 8.8 Ω (HF)
Frequency Range	45 - 18000 Hz
Dispersion Angle ¹	80°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	99 dB
Power Handling Nom. (AES) ³	500 W
Continuous Program ⁴	1000 W
Voice Coil Diameter	88 mm (3.5 in)
Winding Material	Aluminum
Flux Density	1.05 T
Former Material	Glass Fibre
Winding Depth	22.0 mm (0.87 in)
Magnetic Gap Depth	11.0 mm (0.43 in)

HF UNIT

Sensitivity (1W/1m) ²	106 dB
Power Handling Nom. (AES) ³	80 W
Continuous Program ⁴	160 W

Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Diaphragm Material	Titanium
Recommended Crossover ⁵	1.2 kHz
Flux Density	1.75 T
Inductance	0.14 mH

Mms	83 g
Bl	20.7 T·m
Le	0.95 mH
EBP	170 Hz

THIELE & SMALL PARAMETERS⁴

Fs	46 Hz
Re	4.7 Ω
Qes	0.27
Qms	13.0
Qt	0.26
Vas	100 dm ³ (3.53 ft ³)
Sd	707 cm ² (109.59 in ²)
η ₀	3.6 %
X max	± 8.5 mm
X var	± 9 mm

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	359 mm (14.13 in)
Bolt Circle Diameter	343 mm (323.0 in)
Baffle Cutout Diameter	326 mm (12.83 in)
Depth	200 mm (7.87 in)
Flange and Gasket Thickness	15 mm (0.59 in)
Net Weight	7.3 kg (16.09 lb)
Shipping Weight	8.9 kg (19.62 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)

Service kit LF	RCK14CXN888
Service kit HF	MMD3DTN8M

¹ Included by ~6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise

signal within the range Fs-10Fs.

LF and HF Power calculated on rated nominal impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 4 Ω, data upon request

15HCX76

ND COAXIAL



800 W
continuous program
power capacity

99 dB
sensitivity

60°x 40°
nominal coverage

40 - 18000 Hz
response

Modified exponential
horn flare for improved
acoustic loading and
controlled coverage

Single Neodymium
magnet assembly

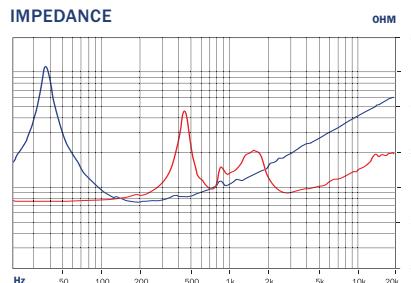
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	380 mm (15 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.0 Ω (lf), 8.0 Ω (hf)
Frequency Range	40 - 18000 Hz
Dispersion Angle ¹	60°x40°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	99 dB
Power Handling Nom. (AES) ³	400 W
Continuous Program ⁴	800 W
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Flux Density	1.15 T
Former Material	Glass Fibre
Winding Depth	16.5 mm (0.65 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

HF UNIT

Sensitivity (1W/1m) ²	107 dB
Power Handling Nom. (AES) ³	80 W
Continuous Program ⁴	160 W

THIELE & SMALL PARAMETERS⁴

Fs	38 Hz
Re	5.1 Ω
Qes	0.3
Qms	5.8
Qts	0.28
Vas	246 dm³ (8.6 ft³)
Sd	855 cm² (132.5 in²)
η ₀	3.7%
X max	± 4.5 mm
X var	± 6 mm

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.94 in)
Depth	200 mm (7.87 in)
Flange and Gasket Thickness	16 mm (0.62 in)
Net Weight	5.6 kg (12.35 lb)
Shipping Weight	7.2 kg (15.87 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)

Service kit LF	RCK15HCX768M
Service kit HF	MMD3BTN8M

¹ Included by ~6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test made in free air.

with continuous pink noise signal within the range Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available 15CXN76 (without horn / 80° disp)

15CXN88

ND COAXIAL



1000 W
continuous program power capacity

100 dB
sensitivity

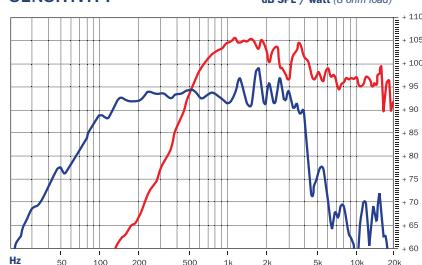
80°
nominal coverage

40 - 18000 Hz
response

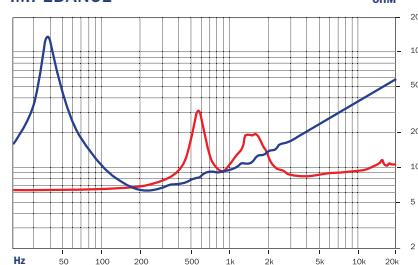
Single Neodymium magnet assembly
Aluminium demodulating ring for very low distortion
Double spider with optimized compliance



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	380 mm (15 in)
Nom. Impedance	8 Ω
Minimum Impedance	5.8 Ω (LF), 8.5 Ω (HF)
Frequency Range	40 - 18000 Hz
Dispersion Angle ¹	80°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	100 dB
Power Handling Nom. (AES) ³	500 W
Continuous Program ⁴	1000 W
Voice Coil Diameter	88 mm (3.5 in)
Winding Material	Aluminum
Flux Density	1.2 T
Former Material	Glass Fibre
Winding Depth	22.0 mm (0.87 in)
Magnetic Gap Depth	11.0 mm (0.43 in)

HF UNIT

Sensitivity (1W/1m) ²	106 dB
Power Handling Nom. (AES) ³	80 W
Continuous Program ⁴	160 W

Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Diaphragm Material	Titanium
Recommended Crossover ⁵	1.2 kHz
Flux Density	1.75 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	40 Hz
Re	5 Ω
Qes	0.26
Qms	10.3
Qts	0.25
Vas	178 dm³ (6.29 ft³)
Sd	855 cm² (132.53 in²)
η_0	4.2 %
X max	± 8.5 mm
X var	± 9.5 mm

Mms	93 g
Bl	21.2 T·m
Le	1.05 mH
EBP	153 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.47 in)
Bolt Circle Diameter	374 mm (14.72 in)
Baffle Cutout Diameter	356 mm (14.02 in)
Depth	208 mm (8.19 in)
Flange and Gasket Thickness	15 mm (0.59 in)
Net Weight	7.3 kg (16.09 lb)
Shipping Weight	8.9 kg (19.62 lb)
Shipping Box	500x495x275 mm (19.69x19.49x10.83 in)

Service kit LF	RCK15CXN888
Service kit HF	MMD3DTN8M

¹ Included by ~6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.



B&C Speakers has been a market leader in compression driver technology for decades. Our reliability and performance is second to none. We continue to work with a wide variety of materials to further improve the performance of our HF devices. Through our modeling programs we are able to analyze every aspect of the driver, and study the impact of key components on each design.

We use four different diaphragm materials: Mylar, pure Titanium, Polyimide, and a High Temperature Polymer. Each material has its own unique benefits and qualities. Mylar allows for an exceptionally smooth transient response. Pure Titanium provides high power handling and excellent reliability in the field. Polyimide also achieves high power handling and sensitivity, with a smooth top end response. Our industry leadership in High Temperature Polymer diaphragms provides higher sensitivity in the last octaves thanks to this lighter, stiffer material.

Standard features in our compression drivers include copper shorting rings, FEA optimized phase plugs, and edge-wound copper-clad aluminum voice coil wire.

The **DE618TN** has a completely redesigned diaphragm to incorporate a bent edge voice coil former, as well as new dome and surround geometry. These modifications combine to better control diaphragm displacement and deformations, resulting in lower distortion and a smoother higher frequency response above 10kHz.

The newest ring radiator offering from B&C speakers is the **DE36**, featuring a high temperature polymer diaphragm with a ferrite magnet motor. Extensive FEA modeling and physical testing over the last several years has culminated in a 1.5 inch (38mm) coil ring driver with outstanding sensitivity, high frequency extension, and compactness. A practical recommended crossover point of 1.8kHz and sensitivity of 108dB allow for a wide range of applications, including compact two way boxes and line arrays.

Also new are the **DE14** and **DE14TN**, improving on the industry standard DE12, 1" exit ferrite magnet high frequency driver. This 44mm (1.7") diaphragm driver now features an optimized phase plug and rear cap that improves frequency response with lower distortion

DE10

FE HF DRIVER



FE
HF
DRIV
ERS

40 W
continuous program
power capacity

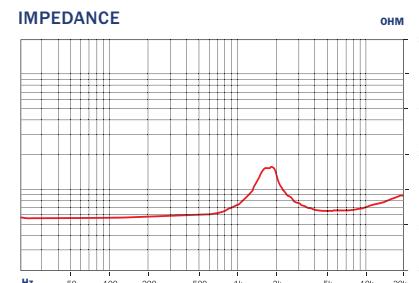
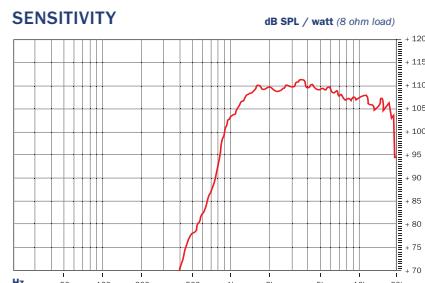
25 mm (1 in)
aluminium voice coil

1"
horn throat
diameter

107 dB
sensitivity

1500 - 18000 Hz
response

Polyester
diaphragm



SPECIFICATIONS

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ²	20 W
Continuous Program ³	40 W
Sensitivity (1W/1m) ⁴	107 dB

Frequency Range	1.5 - 18 kHz
Recommended crossover ⁵	2.5 kHz
Voice Coil Diameter	25 mm (1 in)
Winding Material	Aluminium
Inductance	0.1 mH
Diaphragm Material	Polyester
Flux Density	1.55 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Two M5 holes 180° on 76 mm (3 in) diameter	
Overall Diameter	90 mm (3.5 in)
Depth	53 mm (2.1 in)
Net Weight (1 unit)	0.8 kg (1.8 lb)
Shipping Weight (8 units)	7.05 kg (15.54 lb)
Shipping Box (8 units)	235x235x165 mm (9.25x9.25x6.5 in)
Replacement Diaphragm	MMD0108

¹ Driver mounted on B&C ME 10 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance, Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

DE12

FE HF DRIVER




50 W
continuous program power capacity

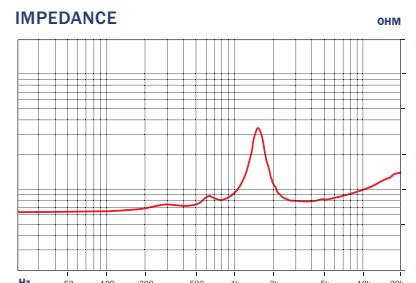
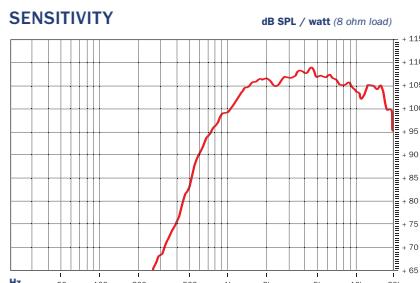
36 mm (1.4 in)
aluminium voice coil

1"
horn throat diameter

106 dB
sensitivity

1500 - 18000 Hz
response

Polyester diaphragm



SPECIFICATIONS

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.8 Ω
Power Handling	
Nominal (AES) ²	25 W
Continuous Program ³	50 W
Sensitivity (1W/1m) ⁴	106 dB

Frequency Range	1.5 - 18 kHz
Recommended crossover ⁵	2.2 kHz
Voice Coil Diameter	36 mm (1.4 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	Polyester
Flux Density	1.45 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Two M5 holes 180° on 76 mm (3 in) diameter	
Overall Diameter	90 mm (3.5 in)
Depth	49 mm (2 in)
Net Weight (1 unit)	1 kg (2.2 lb)
Shipping Weight (8 units)	8.65 Kg (19.07 lb)
Shipping Box (8 units)	235x235x165 mm (9.25x9.25x6.5 in)

Replacement Diaphragm **MMD0128**

¹ Driver mounted on B&C ME 45 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance, Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request
Also available DE12TC (Titanium diaphragm)

DE14TN

FE HF DRIVER



FE
HF
DRIV
ERS

60 W
continuous program
power capacity

36 mm (1.4 in)
aluminium voice coil

1"
horn throat
diameter

105 dB
sensitivity

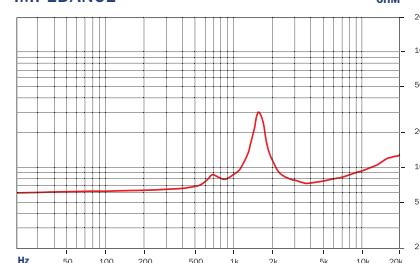
1500 - 18000 Hz
response

Titanium
diaphragm

SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.4 Ω
Power Handling	
Nominal (AES) ²	30 W
Continuous Program ³	60 W
Sensitivity (1W/1m) ⁴	105 dB

Frequency Range	1.5 - 18 kHz
Recommended crossover ⁵	2.2 kHz
Voice Coil Diameter	36 mm (1.4 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	Titanium
Flux Density	1.45 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Two M5 holes 180° on 76 mm (3 in) diameter	
Three M6 holes 120° on 57 mm (2.2 in) diameter	
Overall Diameter	90 mm (3.5 in)
Depth	49 mm (2 in)
Net Weight (1 unit)	1.1 kg (2.4 lb)
Shipping Weight (8 units)	9.45 kg (20.83 lb)
Shipping Box (8 units)	235x235x165 mm (9.25x9.25x6.5 in)

Replacement Diaphragm

MMD014TN8

¹ Driver mounted on B&C ME 45 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance, Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request
Also available DE 14 (Polyester diaphragm)

DE36

FE HF DRIVER



FE
HF
DRIV
ERS

70 W
continuous program
power capacity

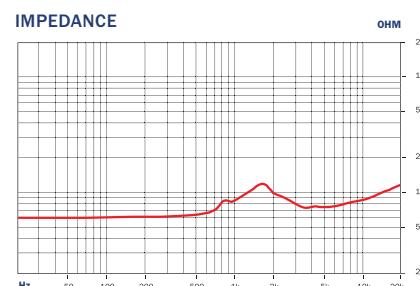
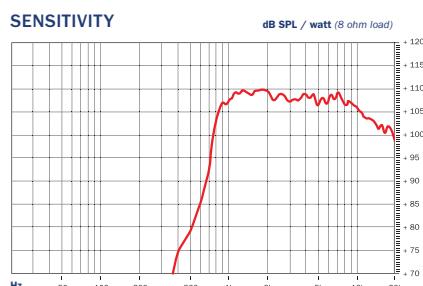
38 mm (1.5 in)
copper clad aluminum
voice coil

1"
horn throat
diameter

107.5 dB
sensitivity

1200 - 20000 Hz
response

Annular HT
Polyester
diaphragm



SPECIFICATIONS

Throat Diameter	25 mm (1.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.2 Ω
Power Handling	
Nominal (AES) ²	35 W
Continuous Program ³	70 W
Sensitivity (1W/1m) ⁴	107.5 dB

Frequency Range	1.2 - 20 kHz
Recommended crossover ⁵	1.8 kHz
Voice Coil Diameter	38 mm (1.5 in)
Winding Material	Aluminum
Inductance	0.05 mH
Diaphragm Material	HT Polymer
Flux Density	1.6 T
Magnet Material	Ferrite

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 180° on 76 mm (3 in) diameter	
Overall Diameter	90 mm (3.54 in)
Depth	48 mm (1.89 in)
Net Weight (1 unit)	1.1 kg (2.43 lb)
Shipping Weight (8 units)	9.65 kg (21.27 lb)
Shipping Box (8 units)	235x235x165 mm (9.25x9.25x6.5 in)
Replacement Diaphragm	MMD0368

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance, Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request

DE160

FE HF DRIVER



FE
HF
DRIV
ERS

80 W
continuous program
power capacity

44 mm (1.7 in)
aluminium voice coil

1"
horn throat
diameter

107 dB
sensitivity

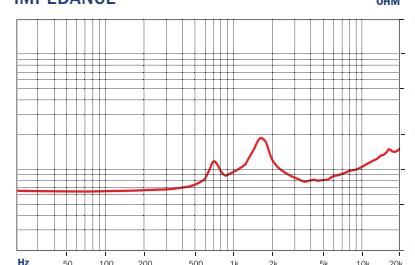
1500 - 18000 Hz
response

Polyester
diaphragm

SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.4 Ω
Power Handling	
Nominal (AES) ²	40 W
Continuous Program ³	80 W
Sensitivity (1W/1m) ⁴	107 dB

Frequency Range	1.5 - 18 kHz
Recommended crossover ⁵	2 kHz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Inductance	0.11 mH
Diaphragm Material	Polyester
Flux Density	1.5 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 180° on 76 mm (3 in) diameter	
Overall Diameter	102 mm (4 in)
Depth	61 mm (2.4 in)
Net Weight (1 unit)	1.6 kg (3.5 lb)
Shipping Weight (8 units)	13.45 Kg (29.65 lb)
Shipping Box (8 units)	235x235x165 mm (9.25x9.25x6.5 in)
Replacement Diaphragm	MMD25BTN8M

¹ Driver mounted on B&C ME 45 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance, Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request
Also available DE200 (Titanium Diaphragm)

DE180

FE HF DRIVER



FE
HF
DRIV
ERS

120 W
continuous program power capacity

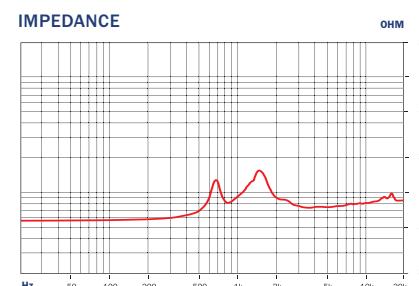
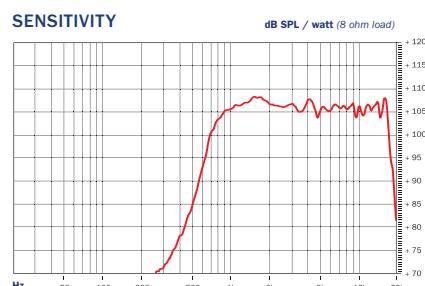
44 mm (1.7 in)
aluminium voice coil

1"
horn throat diameter

106.5 dB
sensitivity

1000 - 17000 Hz
response

Polyimide diaphragm



SPECIFICATIONS

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.4 Ω
Power Handling	
Nominal (AES) ²	60 W
Continuous Program ³	120 W
Sensitivity (1W/1m) ⁴	106.5 dB

Frequency Range	1 - 17 kHz
Recommended crossover ⁵	2 kHz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Inductance	0.12 mH
Diaphragm Material	Polyimide
Flux Density	1.35 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 180° on 76 mm (3 in) diameter	
Overall Diameter	102 mm (4.0 in)
Depth	61 mm (2.4 in)
Net Weight (1 unit)	1.6 kg (3.5 lb)
Shipping Weight (8 units)	13.45 kg (29.65 lb)
Shipping Box (8 units)	235x235x165 mm (9.25x9.25x6.5 in)
Replacement Diaphragm	MMDDDE1808

Also available in **16 Ω**, data upon request
Also available **DE 200 (Titanium Diaphragm)**
Also available **DE160 (Polyester version)**

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance, Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

DE250

FE HF DRIVER



FE
HF
DRIV
ERS

120 W
continuous program
power capacity

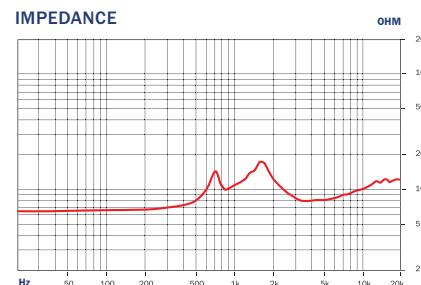
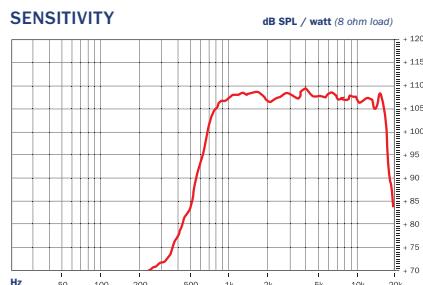
108.5 dB
sensitivity

44 mm (1.7 in)
aluminium voice coil

1000 - 18000 Hz
response

1"
horn throat
diameter

Polyester
diaphragm



SPECIFICATIONS

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.8 Ω
Power Handling	
Nominal (AES) ²	60 W
Continuous Program ³	120 W
Sensitivity (1W/1m) ⁴	108.5 dB

Frequency Range	1 - 18 kHz
Recommended crossover ⁵	1.6 kHz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Inductance	0.11 mH
Diaphragm Material	Polyimide
Flux Density	1.85 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 180° on 76 mm (3 in) diameter
Three M6 holes 120° on 57 mm (2.2 in) diameter
Overall Diameter 120 mm (4.7 in)
Depth 62 mm (2.4 in)
Net Weight (1 unit) 2.1 kg (4.6 lb)
Shipping Weight (4 units) 8.85 kg (19.51 lb)
Shipping Box (4 units) 265x135x170 mm (10.43x5.31x6.69 in)

Replacement Diaphragm

MMDE2508

Also available in 16 Ω, data upon request

Also available DE250TN (Titanium Diaphragm)

Also available DE254TN (Titanium Diaphragm/1.4" exit)

¹ Driver mounted on B&C ME 45 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance, Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

DE250TN

FE HF DRIVER



FE
HF
DRIV
ERS

120 W
continuous program
power capacity

106 dB
sensitivity

44 mm (1.7 in)
aluminium voice coil

1000 - 18000 Hz
response

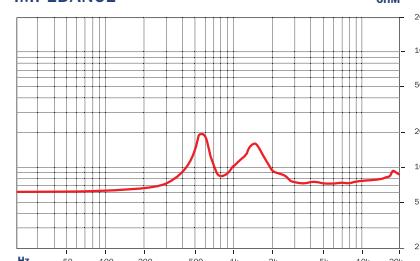
1"
horn throat
diameter

Titanium
diaphragm

SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Throat Diameter	25 mm (1.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.4 Ω
Power Handling	
Nominal (AES) ²	60 W
Continuous Program ³	120 W
Sensitivity (1W/1m) ⁴	106 dB

Frequency Range	1.0 - 18 kHz
Recommended crossover ⁵	1.5 kHz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Inductance	0.11 mH
Diaphragm Material	Titanium
Flux Density	1.85 T
Magnet Material	Ferrite

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 180° on 76 mm (3 in) diameter
Three M6 holes 120° on 57 mm (2.2 in) diameter
Overall Diameter 120 mm (4.7 in)
Depth 62 mm (2.4 in)
Net Weight (1 unit) 2.1 kg (4.6 lb)
Shipping Weight (4 units) 8.85 kg (19.51 lb)
Shipping Box (4 units) 265x135x170 mm (10.43x5.31x6.69 in)

Replacement Diaphragm

MMD5028M

¹ Driver mounted on B&C ME 45 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance, Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

DE618TN

FE HF DRIVER



FE
HF
DRIV
ERS

160 W
continuous program
power capacity

65 mm (2.5 in)
aluminium voice coil

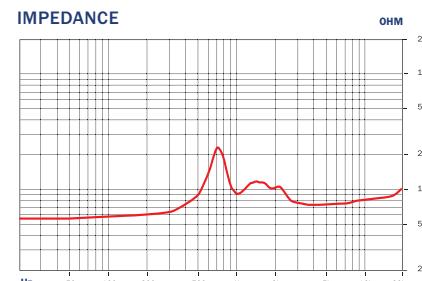
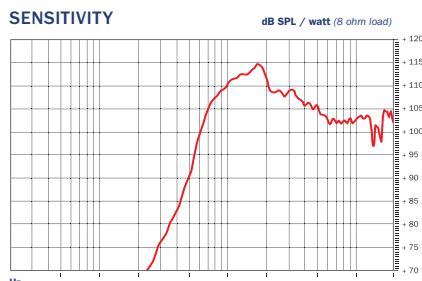
Titanium
diaphragm

Ferrite magnet
assembly with
shorting copper cap

108 dB
sensitivity

1000 - 18000 Hz
response

1.4"
horn throat
diameter



SPECIFICATIONS

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.3 Ω
Power Handling	
Nominal (AES) ²	80 W
Continuous Program ³	160 W
Sensitivity (1W/1m) ⁴	108 dB

Frequency Range	1 - 18 kHz
Recommended crossover ⁵	1.2 kHz
Voice Coil Diameter	65 mm (2.5 in)
Winding Material	Aluminium
Inductance	0.15 mH
Diaphragm Material	Titanium
Flux Density	1.65 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	156 mm (6.14 in)
Depth	66 mm (2.6 in)
Net Weight (1 unit)	3.8 kg (8.38 lb)
Shipping Weight (2 units)	8.1 kg (17.86 lb)
Shipping Box (2 units)	210x210x190 mm (8.27x8.27x7.48 in)
Replacement Diaphragm	MMD25BTN8M

¹ Driver mounted on B&C ME 90 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance, Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

DE60TN

FE HF DRIVER



FE
HF
DRIV
ERS

220 W
continuous program
power capacity

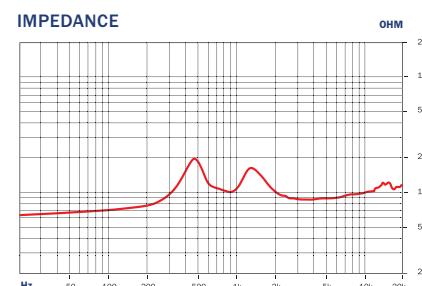
75 mm (3 in)
aluminium voice coil

1.4"
horn throat
diameter

107 dB
sensitivity

1000 - 18000 Hz
response

Shorting copper cap for
extended HF response



SPECIFICATIONS

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.6 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	107 dB

Frequency Range	1 - 18 kHz
Recommended crossover ⁵	1.2 kHz
Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	Titanium
Flux Density	1.6 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	156 mm (6.1 in)
Depth	66 mm (2.6 in)
Net Weight (1 unit)	4.1 kg (9 lb)
Shipping Weight (2 units)	8.1 Kg (17.86 lb)
Shipping Box (2 units)	210x210x190 mm (8.27x8.27x7.48 in)
Replacement Diaphragm	MMD3BTN8M

¹ Driver mounted on B&C ME 90 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance, Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request

DE82TN

FE HF DRIVER



FE
HF
DRIV
ERS

220 W
continuous program
power capacity

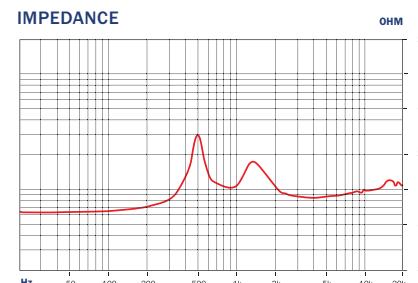
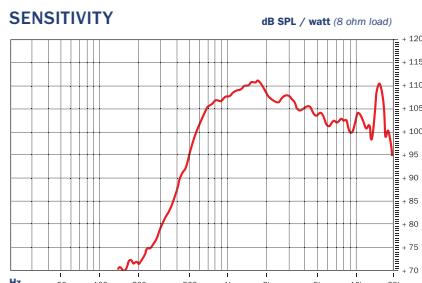
106.5 dB
sensitivity

75 mm (3 in)
aluminium voice coil

500 - 18000 Hz
response

Titanium
diaphragm
Shorting copper cap for
extended HF response

1.4"
horn throat
diameter



SPECIFICATIONS

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.5 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	106.5 dB

Frequency Range	0.5 - 18 kHz
Recommended crossover ⁵	1.0 kHz
Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	Titanium
Flux Density	1.8 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	170 mm (6.7 in)
Depth	64 mm (2.5 in)
Net Weight (1 unit)	4.5 kg (9.9 lb)
Shipping Weight (2 units)	9.6 kg (21.2 lb)
Shipping Box (2 units)	210x210x190 mm (8.27x8.27x7.48 in)
Replacement Diaphragm	MMD3ATN8

Also available in 16 Ω, data upon request

Also available DE82 (Titanium Diaphragm)

Also available DE85 (Polyester/Titanium Diaphragm)

¹ Driver mounted on B&C ME 90 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance, Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

DE85TN

FE HF DRIVER



**FE
HF
DRIV
ERS**

220 W
continuous program power capacity

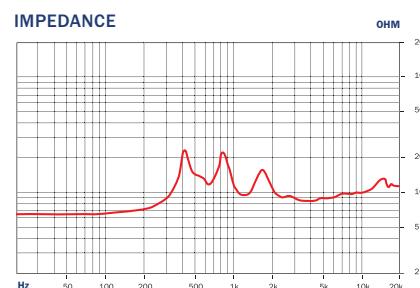
107 dB
sensitivity

75 mm (3 in)
aluminium voice coil

500 - 18000 Hz
response

Titanium diaphragm
Shorting copper cap for extended HF response

2"
horn throat diameter



SPECIFICATIONS

Throat Diameter	50 mm (2 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.2 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	107 dB

Frequency Range	0.5 - 18 kHz
Recommended crossover ⁵	1 kHz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	Titanium
Flux Density	1.8 T
Magnet Material	Ferrite

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	170 mm (6.7 in)
Depth	64 mm (2.5 in)
Net Weight (1 unit)	4.5 kg (9.9 lb)
Shipping Weight (2 units)	9.6 kg (21.2 lb)
Shipping Box (4 units)	210x210x190 mm (8.27x8.27x7.48 in)
Replacement Diaphragm	MMD3ATN8

¹ Driver mounted on B&C ME 75 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance, Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request

Also available DE85 (Polyester/Titanium Diaphragm)

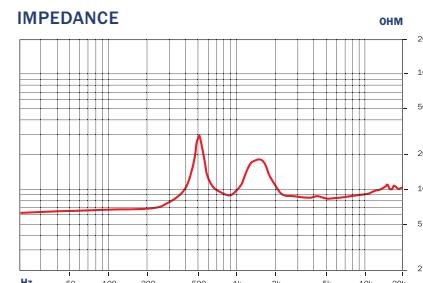
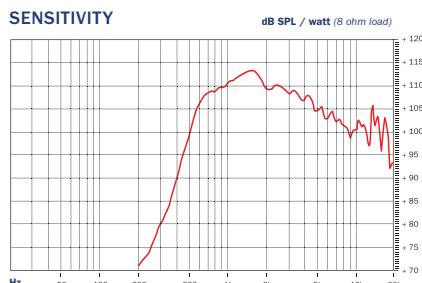
DE90TN

FE HF DRIVER



 **FE
HF
DRIV
ERS**

220 W continuous program power capacity	75 mm (3 in) aluminium voice coil	Titanium diaphragm
107.5 dB sensitivity	500 - 18000 Hz response	Shorting copper cap for extended HF response
		1.4" horn throat diameter



SPECIFICATIONS

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.3 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	107.5 dB

Frequency Range	0.5 - 18 kHz
Recommended crossover ⁵	1 kHz
Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	Titanium
Flux Density	1.8 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	170 mm (6.7 in)
Depth	65 mm (2.5 in)
Net Weight (1 unit)	4.5 kg (9.9 lb)
Shipping Weight (2 units)	9.6 kg (21.2 lb)
Shipping Box (2 units)	210x210x190 mm (8.27x8.27x7.48 in)
Replacement Diaphragm	MMD3DTN8M

¹ Driver mounted on B&C ME 90 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

Also available in 16 Ω, data upon request
Also available DE95TN (with 50 mm/2.0 in exit)

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance, Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

DE750TN

FE HF DRIVER



**FE
HF
DRIV
ERS**

220 W
continuous program
power capacity

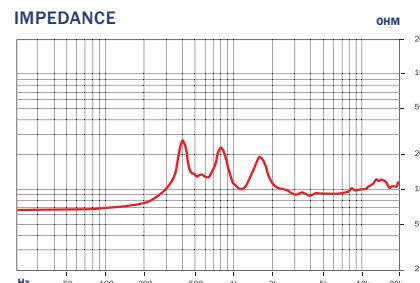
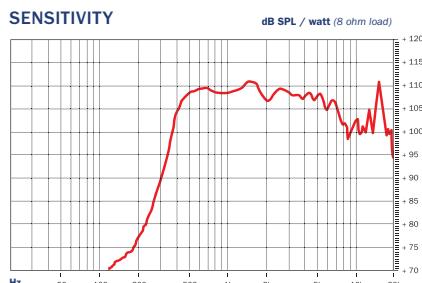
107.5 dB
sensitivity

75 mm (3 in)
aluminium voice coil

500 - 18000 Hz
response

Titanium
diaphragm
Shorting copper cap for
extended HF response

2"
horn throat
diameter



SPECIFICATIONS

Throat Diameter	50 mm (2 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.8 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	107.5 dB

Frequency Range	0.5 - 18 kHz
Recommended crossover ⁵	0.8 kHz
Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	Titanium
Flux Density	1.9 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	180 mm (7.1 in)
Depth	87 mm (3.4 in)
Net Weight	6.3 kg (13.9 lb)
Shipping Weight	6.5 kg (14.3 lb)
Shipping Box	190x190x120 mm (7.48x7.48x4.72 in)
Replacement Diaphragm	MMD3ATN8

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance, Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

B&C Speakers has been a leader in compression driver technology for decades. We are constantly advancing the science of high frequency driver development and adding new products to our range. The use of Neodymium magnets in our high frequency drivers has not only allowed us to dramatically reduce their size and weight, but also to improve performance and overall value.

Our reliability is second to none and we continue to work with a variety of materials to further improve performance. Through our Finite Element and Boundary Element modeling expertise we are able to analyze every aspect of the driver and study the impact of key components on each design.

We use four different diaphragm materials: Mylar, pure Titanium, Polyimide and High Temperature (HT) Polyester. Each material has its own unique benefits and qualities. Mylar allows for an exceptionally smooth transient response. Pure Titanium provides superb power handling and excellent reliability in the field. Polyimide achieves very high power handling and sensitivity levels, and creates a smooth top end response. HT Polymer provides superior power handling and higher output levels in the upper octave ranges.

The new **DE360** ring radiator high frequency driver features a high temperature polymer diaphragm with a neodymium magnet motor. Extensive FEA modelling and physical testing over the last several years has culminated in these 1.5 inch (38mm) coil, ring radiator drivers with outstanding sensitivity, high frequency extension, and compactness. A suitable solution

for a wide range of applications, including compact two-way point source boxes and line arrays.

The DE680TN, DE880TN, DE980TN, DE990TN and DE1090TN

high frequency drivers debut a robust titanium diaphragm that incorporates next generation surround geometry, together with a brand new, optimized phase plug. Significant research has yielded a new coil former shape that solidifies the diaphragm with negligible increase in mass. The result is improved high frequency linearity and reduced distortion. They represent an excellent solution for two-way point source enclosures, as well as for mounting with a waveguide horn in multi-driver line array systems.

Continuing this new series of highly damped titanium drivers is the **DE780TN**, a 3" coil 1.4" exit driver in a 112mm diameter package weighing only 3.5 lbs (1.6 kg). Aimed squarely at the line array market, this driver has exception high frequency sensitivity and allows unprecedented energy density when used in multiples within the same cabinet.

Dedicated midrange users have a new option to look forward to: the **DCM414** midrange compression driver. Using a newly developed 4" coil high temperature polymer ring diaphragm, it delivers more than five octaves of bandwidth from 300 – 6000Hz at 112dB average sensitivity. A 1.4" exit (or 2" in the **DCM420**) and a flat, lightweight form factor complete the offering. Brand new materials and thousands of hours of modeling and testing result in lower distortion at higher SPL than has ever been possible before, making the DCM414 the highest output midrange compression driver ever offered.



COAXIAL HF Drivers

B&C speakers engineers have been working for the last five years on a family of next generation high frequency devices. Compression drivers are the linchpin of a PA system: operating at wavelengths too small to readily couple with other drivers, they alone have to fight distance and atmospheric losses to deliver concert sound pressure levels to ever larger audiences.

Enter the DCX464 coaxial ring radiator, designed from scratch to advance the state of the art. The DCX464's midrange diaphragm covers 300Hz – 5.5kHz with 110dB sensitivity, and its 100mm voice coil handles 220 watts. The 64mm coil high frequency diaphragm covers 3 – 18kHz with 111.4dB sensitivity and handles 160 watts. A patent pending midrange integrator allows both diaphragms to work in harmony over a wide bandwidth, for greater combined output and crossover flexibility. All this energy arrives at a 1.4" throat (or 2.0" in the DCX462), making the DCX464 the widest bandwidth, highest power-handling, and highest durability transducer that can be designed today.

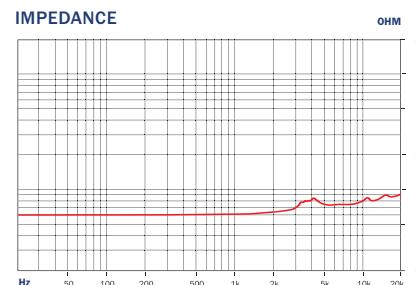
DE35

ND TWEETER



**ND
HF
DRIV
ERS**

50 W continuous program power capacity	Neodymium magnet assembly
108 dB sensitivity	3500 - 18000 Hz response



SPECIFICATIONS

Nominal Impedance	8 Ω	Frequency Range	3.5 - 18 kHz
Minimum Impedance	7 Ω	Recommended crossover ⁴	5 kHz
Power Handling		Voice Coil Diameter	32 mm (1.25 in)
Nominal (AES) ¹	25 W	Winding Material	Aluminium
Continuous Program ²	50 W	Inductance	0.1 mH
Sensitivity (1W/1m) ³	108 dB	Diaphragm Material	Polyester
		Flux Density	1.3 T
		Magnet Material	Neodymium Inside Slug

MOUNTING AND SHIPPING INFORMATION

Three M4 holes 120° on 91 mm (3.6 in) diameter	OHM
Overall Diameter	100 mm (4 in)
Depth	46 mm (1.8 in)
Net Weight (1 unit)	0.7 kg (1.5 lb)
Shipping Weight (8 units)	6.25 kg (13.78 lb)
Shipping Box (8 units)	235x235x165 mm (9.25x9.25x6.5 in)
Replacement Diaphragm	MMD0358

¹ Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.

DE7

ND HF DRIVER



**ND
HF
DRIV
ERS**

20 W
continuous program
power capacity

25 mm (1 in)
aluminium voice coil

Polyimide
diaphragm

109 dB
sensitivity

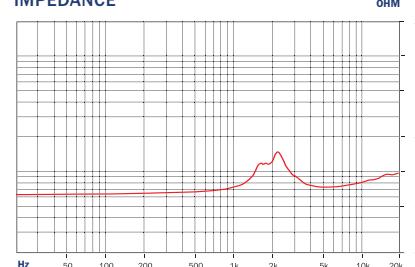
2000 - 18000 Hz
response

3/4"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Throat Diameter	19 mm (0.75 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.6 Ω
Power Handling	
Nominal (AES) ²	10 W
Continuous Program ³	20 W
Sensitivity (1W/1m) ⁴	109 dB

Frequency Range	2 - 18 kHz
Recommended Crossover ⁵	2.5 kHz
Voice Coil Diameter	25 mm (1 in)
Winding Material	Aluminium
Inductance	0.1 mH
Diaphragm material	Polyester
Flux Density	1.65 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Two M4 holes 180° on 53 mm (2.1 in) diameter	
Overall Diameter	62 mm (2.4 in)
Depth	35 mm (1.4 in)
Net Weight	0.17 kg (0.37 lb)
Shipping Weight (8 units)	1.55 kg (3.42 lb)
Shipping Box (8 units)	130x110x90 mm (5.12x4.33x3.54 in)
Replacement Diaphragm	MMDDDE58

Also available in 16 Ω, data upon request
Also available DE5 with 51 mm (0.5 in) exit

¹ Driver mounted on B&C ME7 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

DE110

ND HF DRIVER



**ND
HF
DRIV
ERS**

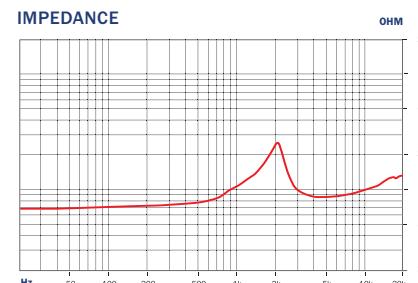
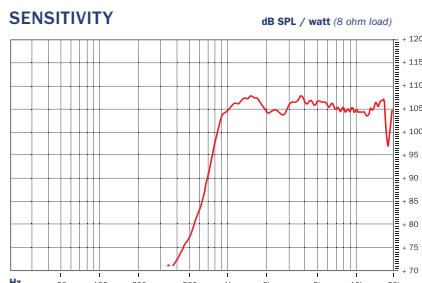
50 W
continuous program
power capacity

106 dB
sensitivity

36 mm (1.4 in)
aluminium voice coil

2000 - 18000 Hz
response

HT Polymer
diaphragm
Ultra Compact
60 mm diameter
1"
horn throat
diameter



SPECIFICATIONS

Throat diameter	25 mm (1.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	8 Ω
Power Handling	
Nominal (AES) ²	25 W
Continuous Program ³	50 W
Sensitivity (1W/1m) ⁴	106 dB

Frequency Range	2 - 18 kHz
Recommended crossover ⁵	2 kHz
Voice Coil Diameter	36 mm (1.4 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	HT Polymer
Flux Density	1.8 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Two M5 holes 180° on 52 mm (2.05 in) diameter	
Overall Diameter	60 mm (2.36 in)
Depth	35 mm (1.38 in)
Net Weight (1 unit)	0.32 kg (0.71 lb)
Shipping Weight (8 units)	3.2 kg (7.05 lb)
Shipping Box (8 units)	235x235x165 mm (9.25x9.25x6.5 in)
Replacement Diaphragm	MMDDE11088

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
⁵ Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

DE111

ND HF DRIVER



**ND
HF
DRIV
ERS**

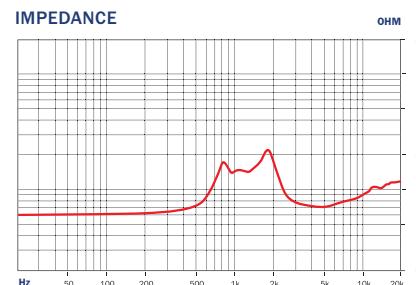
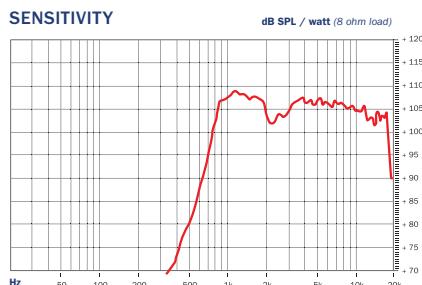
50 W
continuous program
power capacity

107 dB
sensitivity

36 mm (1.4 in)
aluminium voice coil

1000 - 17000 Hz
response

HT Polymer
diaphragm
Ultra Compact
60mm diameter
1"
horn throat
diameter



SPECIFICATIONS

Throat Diameter	25 mm (1.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.0 Ω
Power Handling	
Nominal (AES) ²	25 W
Continuous Program ³	50 W
Sensitivity (1W/1m) ⁴	107 dB

Frequency Range	1.0 - 17 kHz
Recommended Crossover ⁵	1.2 kHz
Voice Coil Diameter	36 mm (1.4 in)
Winding Material	Aluminum
Inductance	0.14 mH
Diaphragm material	HT Polymer
Flux Density	1.8 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Two M5 holes 180° on 52 mm (2.05 in) diameter	
Overall Diameter	60 mm (2.36 in)
Depth	36 mm (1.42 in)
Net Weight	0.32 kg (0.71 lb)
Shipping Weight (8 units)	3.2 kg (7.05 lb)
Shipping Box (8 units)	235x235x165 mm (9.25x9.25x6.50 in)
Replacement Diaphragm	MMDD1118

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.⁵

12 dB/oct. or higher slope high-pass filter.



**ND
HF
DRIV
ERS**

DE360

ND HF DRIVER

70 W

continuous program power capacity

110 dB

sensitivity

38 mm (1.5 in)

copper clad aluminum voice coil

1200 - 20000 Hz

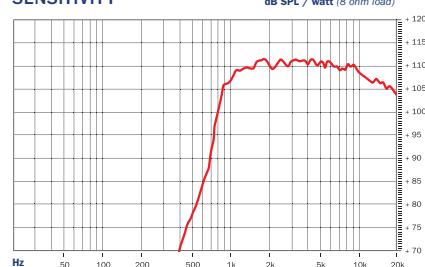
response

Annular HT Polyester diaphragm

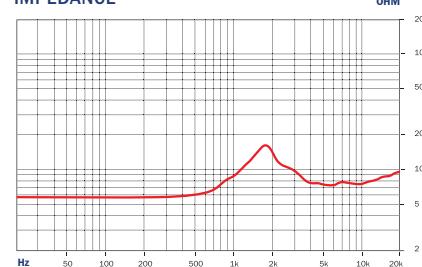
1"

horn throat diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.6 Ω
Power Handling	
Nominal (AES) ²	35 W
Continuous Program ³	70 W
Sensitivity (1W/1m) ⁴	110 dB

Frequency Range	1.2 - 20 kHz
Recommended crossover ⁵	1.8 kHz
Voice Coil Diameter	38 mm (1.5 in)
Winding Material	Aluminum
Inductance	0.05 mH
Diaphragm Material	HT Polymer
Flux Density	2 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 180° on 57 mm (2.2 in) diameter	
Three M6 holes 120° on 57 mm (2.2 in) diameter	
Overall Diameter	71 mm (2.8 in)
Depth	37 mm (1.46 in)
Net Weight (1 unit)	0.5 kg (1.1 lb)
Shipping Weight (8 units)	4.85 kg (10.69 lb)
Shipping Box (8 units)	235x235x165 mm (9.25x9.25x6.5 in)

Replacement Diaphragm

MMD0368

¹ Driver mounted on B&C ME 45 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.⁵

⁶ 12 dB/oct. or higher slope high-pass filter.

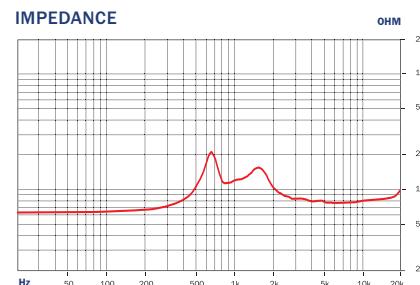
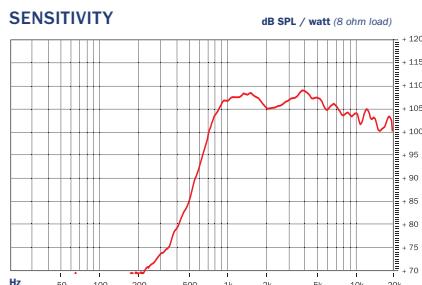
DE400TN

ND HF DRIVER



100 W continuous program power capacity	44 mm (1.7 in) aluminium voice coil
106 dB sensitivity	1200 - 18000 Hz response

Titanium diaphragm
Shorting copper cap for extended HF response
Optimized Neodymium magnet assembly
1"
horn throat diameter



SPECIFICATIONS

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.7 Ω
Power Handling	
Nominal (AES) ²	50 W
Continuous Program ³	100 W
Sensitivity (1W/1m) ⁴	106 dB

Frequency Range	1.2 - 18 kHz
Recommended crossover ⁵	1.5 kHz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Inductance	0.11 mH
Diaphragm Material	Titanium
Flux Density	1.8 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 180° on 76 mm (3 in) diameter	
Overall Diameter	85 mm (3.3in)
Depth	44 mm (1.7 in)
Net Weight (1 unit)	0.8 kg (1.8 lb)
Shipping Weight (8 units)	7.05 kg (15.54 lb)
Shipping Box (8 units)	235x235x165 mm (9.25x9.25x6.5 in)
Replacement Diaphragm	MMD400TN8

¹ Driver mounted on B&C ME 45 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.⁵

12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request
Also available DE400 (Polyimide Diaphragm)

DE502

ND HF DRIVER



**ND
HF
DRIV
ERS**

100 W
continuous program
power capacity

107 dB
sensitivity

44 mm (1.7 in)
aluminium voice coil

1000 - 18000 Hz
response

Titanium
diaphragm

Shorting copper cap for
extended HF response

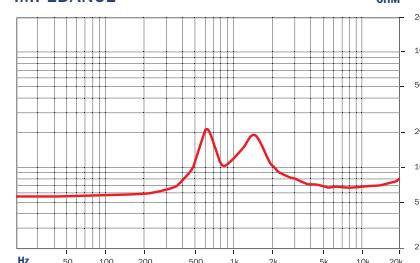
Optimized Neodymium
magnet assembly

1"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.3 Ω
Power Handling	
Nominal (AES) ²	50 W
Continuous Program ³	100 W
Sensitivity (1W/1m) ⁴	107 dB

Frequency Range	1 - 18 kHz
Recommended crossover ⁵	1.5 kHz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Inductance	0.12 mH
Diaphragm Material	Titanium
Flux Density	1.9 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 180° on 76 mm (3 in) diameter	
Three M6 holes 120° on 57 mm (2.2 in) diameter	
Overall Diameter	102 mm (4 in)
Depth	51 mm (2 in)
Net Weight (1 unit)	1.4 kg (3.1 lb)
Shipping Weight (8 units)	11.85 kg (26.12 lb)
Shipping Box (8 units)	235x235x165 mm (9.25x9.25x6.5 in)

Replacement Diaphragm

MMD5028

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request

DE550TN

ND HF DRIVER



**ND
HF
DRIV
ERS**

140 W
continuous program
power capacity

51 mm (2 in)
aluminium voice coil

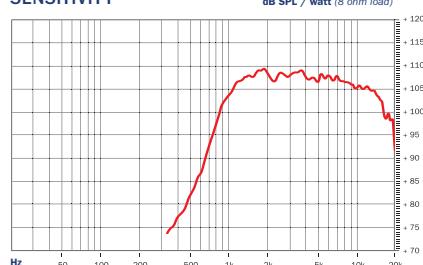
HT Polymer
diaphragm

108 dB
sensitivity

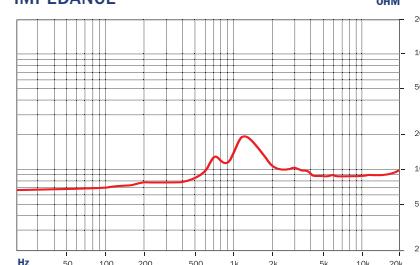
1000 - 17000 Hz
response

1"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.4 Ω
Power Handling	
Nominal (AES) ²	70 W
Continuous Program ³	140 W
Sensitivity (1W/1m) ⁴	108 dB

Frequency Range	1 - 17 kHz
Recommended crossover ⁵	1.2 kHz
Voice Coil Diameter	51 mm (2.0 in)
Winding Material	Aluminium
Inductance	0.12 mH
Diaphragm Material	Titanium
Flux Density	2.0 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 180° on 76 mm (3 in) diameter	
Overall Diameter	92 mm (3.6 in)
Depth	49 mm (1.9 in)
Net Weight (1 unit)	1.25 kg (2.76 lb)
Shipping Weight (8 units)	10.65 kg (23.48 lb)
Shipping Box (8 units)	235x235x165 mm (9.25x9.25x6.5 in)
Replacement Diaphragm	MMD550TN8

¹ Driver mounted on B&C ME 45 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.⁵

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request
Also available DE550 (HT Polymer Diaphragm)

DE680TN

ND HF DRIVER



**ND
HF
DRIV
ERS**

160 W
continuous program
power capacity

108 dB
sensitivity

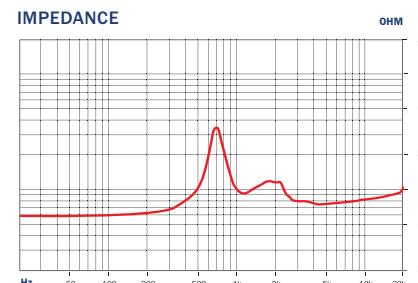
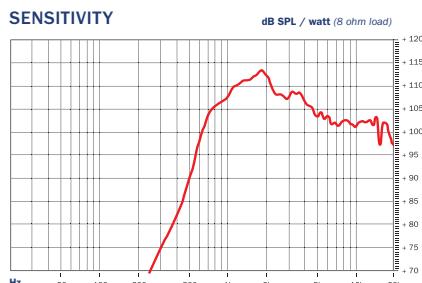
65 mm (2.5 in)
aluminium voice coil

1000 - 18000 Hz
response

Titanium
diaphragm

Neodymium magnet
assembly with
shorting copper cap

1.4"
horn throat
diameter



SPECIFICATIONS

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.7 Ω
Power Handling	
Nominal (AES) ²	80 W
Continuous Program ³	160 W
Sensitivity (1W/1m) ⁴	108 dB

Frequency Range	1 - 18 kHz
Recommended crossover ⁵	1.2 kHz
Voice Coil Diameter	65 mm (2.5 in)
Winding Material	Aluminium
Inductance	0.15 mH
Diaphragm Material	Titanium
Flux Density	1.8 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	115 mm (4.5 in)
Depth	51 mm (2.01 in)
Net Weight (1 unit)	1.75 kg (3.85 lb)
Shipping Weight (4 units)	7.5 Kg (16.53 lb)
Shipping Box (4 units)	265x135x170 mm (10.43x5.31x6.69 in)
Replacement Diaphragm	MMD25BTN8M

¹ Driver mounted on B&C ME 90 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
⁵ Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

DE780TN

ND HF DRIVER



**ND
HF
DRIV
ERS**

220 W
continuous program
power capacity

108 dB
sensitivity

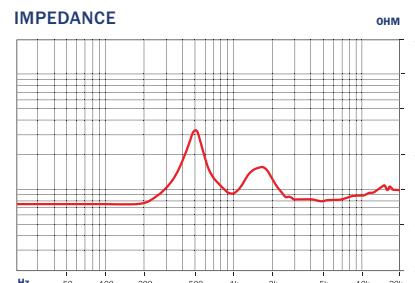
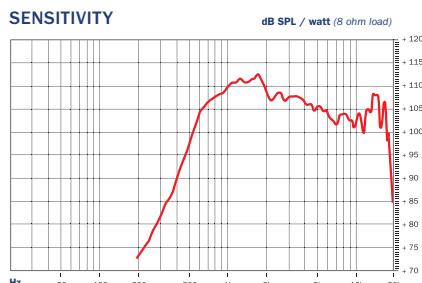
75 mm (3 in)
copper clad aluminum
voice coil

500 - 18000 Hz
response

Titanium
diaphragm

Neodymium magnet
assembly with
shorting copper cap

1.4"
horn throat
diameter



SPECIFICATIONS

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.7 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	108 dB

Frequency Range	0.5 - 18 kHz
Recommended crossover ⁵	1.2 kHz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	Aluminum
Inductance	0.04 mH
Diaphragm Material	Titanium
Flux Density	1.95 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	112 mm (4.41 in)
Depth	56 mm (2.2 in)
Net Weight (1 unit)	1.6 kg (3.53 lb)
Shipping Weight (4 units)	7.0 kg (15.43 lb)
Shipping Box (4 units)	295x160x180 mm (11.61x6.30x7.09 in)
Replacement Diaphragm	MMD3FTN8M

¹ Driver mounted on B&C ME 90 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.⁵

12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request

DE880TN

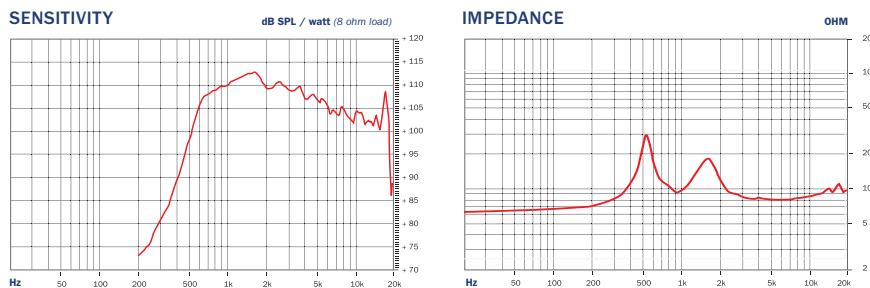
ND HF DRIVER



**ND
HF
DRIV
ERS**

220 W continuous program power capacity	75 mm (3 in) aluminium voice coil
108 dB sensitivity	500 - 18000 Hz response

Neodymium magnet assembly with shorting copper cap
Titanium diaphragm
1.4"
horn throat diameter



SPECIFICATIONS

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.1 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	108 dB

Frequency Range	0.5 - 18 kHz
Recommended crossover ⁵	1.2 kHz
Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Inductance	0.1 mH
Diaphragm Material	Titanium
Flux Density	1.85 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	124 mm (4.9 in)
Overall Diameter	124 mm (4.9 in)
Depth	54.4 mm (2.1 in)
Net Weight (1 unit)	2.1 kg (4.6 lb)
Shipping Weight (4 units)	9.0 kg (19.8 lb)
Shipping Box (4 units)	310x165x230 mm (12.2x6.5x9.06 in)
Replacement Diaphragm	MMD3DTN8M

¹ Driver mounted on B&C ME 90 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the minimum rating.
⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request

DE980TN

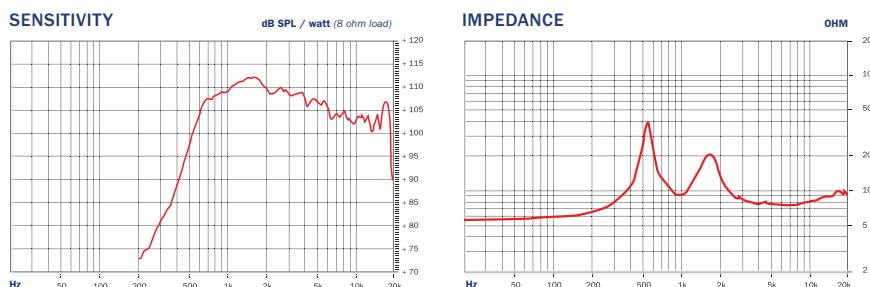
ND HF DRIVER



**ND
HF
DRIV
ERS**

220 W continuous program power capacity	75 mm (3 in) aluminium voice coil
108.5 dB sensitivity	500 - 18000 Hz response

Neodymium magnet assembly with shorting copper cap
Titanium diaphragm
1.4"
horn throat diameter



SPECIFICATIONS

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.1 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	108.5 dB

Frequency Range	0.5 - 18 kHz
Recommended crossover ⁵	1.2 kHz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	Aluminium
Inductance	0.1 mH
Diaphragm Material	Titanium
Flux Density	2.05 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	131 mm (5.2 in)
Depth	54 mm (2.13 in)
Net Weight (1 unit)	2.3 kg (5.1 lb)
Shipping Weight (4 units)	9.8 kg (21.6 lb)
Shipping Box (4 units)	295x160x180 mm (11.6x6.30x7.09 in)
Replacement Diaphragm	MMD3DTN8M

¹ Driver mounted on B&C ME 90 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request
Also available DE985TN (2" exit)

DE990TN

ND HF DRIVER



**ND
HF
DRIV
ERS**

200 W
continuous program
power capacity

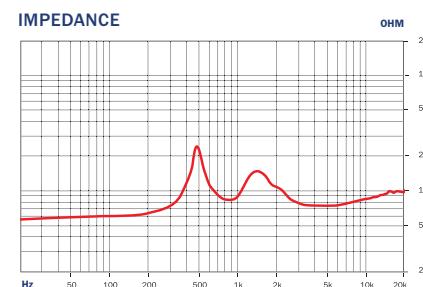
86 mm (3.4 in)
aluminium voice coil

Neodymium magnet
assembly with
shorting copper cap

107.5 dB
sensitivity

500 - 18000 Hz
response

1.4"
horn throat
diameter



SPECIFICATIONS

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.6 Ω
Power Handling	
Nominal (AES) ²	100 W
Continuous Program ³	200 W
Sensitivity (1W/1m) ⁴	107.5 dB

Frequency Range	0.5 - 18 kHz
Recommended crossover ⁵	1.0 kHz
Voice Coil Diameter	86 mm (3.4 in)
Winding Material	Aluminium
Inductance	0.1 mH
Diaphragm Material	Titanium
Flux Density	1.9 T
Magnet Material	Neo Inside Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	118 mm (4.65 in)
Depth	63 mm (2.48 in)
Net Weight (1 unit)	1.85 kg (4.08 lb)
Shipping Weight (4 units)	8.0 kg (17.64 lb)
Shipping Box (4 units)	265x135x170 mm (10.43x5.31x6.69 in)
Replacement Diaphragm	MMD35ETN8M

¹ Driver mounted on B&C ME 90 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the minimum rating.
⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request

DE885TN

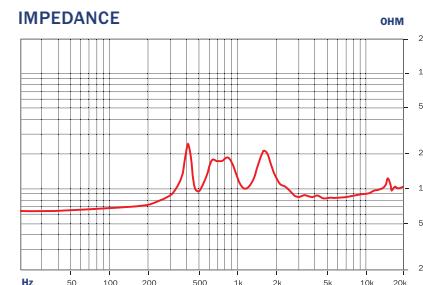
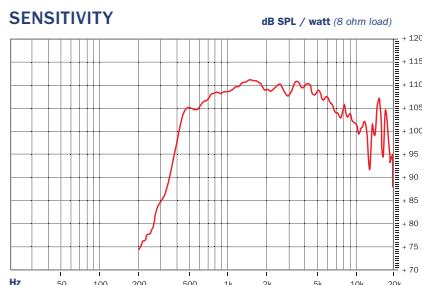
ND HF DRIVER



**ND
HF
DRIV
ERS**

220 W continuous program power capacity	75 mm (3 in) aluminium voice coil
108.5 dB sensitivity	800 - 18000 Hz response

Neodymium magnet assembly with shorting copper cap
Titanium diaphragm
2"
horn throat diameter



SPECIFICATIONS

Throat Diameter	50 mm (2.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	8 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	108.5 dB

Frequency Range	0.8 - 18 kHz
Recommended crossover ⁵	1.0 kHz
Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Inductance	0.1 mH
Diaphragm Material	Titanium
Flux Density	1.85 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	124 mm (4.88 in)
Depth	88 mm (3.46 in)
Net Weight (1 unit)	2.4 kg (5.29 lb)
Shipping Weight (4 units)	10.2 kg (22.49 lb)
Shipping Box (4 units)	310x165x230 mm (12.20x6.5x9.05 in)
Replacement Diaphragm	MMD3DTN8M

¹ Driver mounted on B&C ME 60 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.⁵

12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request

DE1090TN

ND HF DRIVER



**ND
HF
DRIV
ERS**

240 W
continuous program
power capacity

108 dB
sensitivity

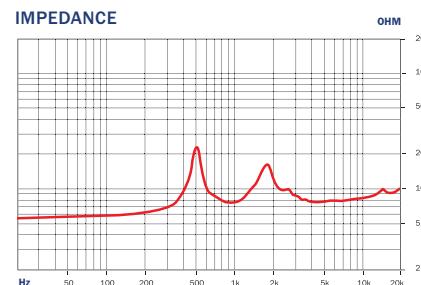
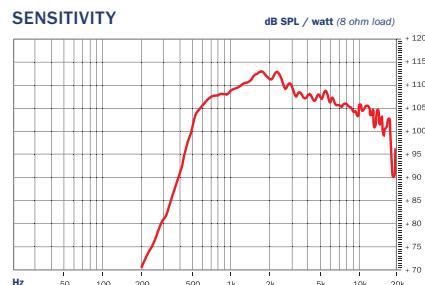
100 mm (4 in)
aluminium voice coil

500 - 20000 Hz
response

Neodymium magnet
assembly with
shorting copper cap

Titanium
diaphragm

1.4"
horn throat
diameter



SPECIFICATIONS

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.3 Ω
Power Handling	
Nominal (AES) ²	120 W
Continuous Program ³	240 W
Sensitivity (1W/1m) ⁴	108.0 dB

Frequency Range	0.5 - 20 kHz
Recommended crossover ⁵	0.8 kHz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Aluminium
Inductance	0.18 mH
Diaphragm Material	Titanium
Flux Density	1.9 T
Magnet Material	Neo Inside Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	127 mm (5.0 in)
Depth	54mm (2.13 in)
Net Weight (1 unit)	1.9 kg (4.19 lb)
Shipping Weight (4 units)	8.2 kg (18.08 lb)
Shipping Box (4 units)	295x160x180 mm (11.61x6.30x7.09 in)
Replacement Diaphragm	MMD4CTN8M

¹ Driver mounted on B&C ME 60 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the minimum rating.
⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.⁵

12 dB/oct. or higher slope high-pass filter.
⁵

Also available in 16 Ω, data upon request

DE1085TN

ND HF DRIVER



**ND
HF
DRIV
ERS**

280 W
continuous program
power capacity

109 dB
sensitivity

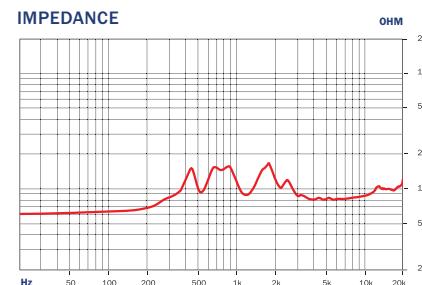
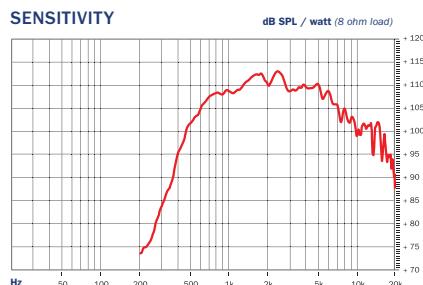
100 mm (4 in)
aluminium voice coil

500 - 20000 Hz
response

Neodymium magnet
assembly with
shorting copper cap

Titanium
diaphragm

2"
horn throat
diameter



SPECIFICATIONS

Throat Diameter	50 mm (2.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.0 Ω
Power Handling	
Nominal (AES) ²	140 W
Continuous Program ³	280 W
Sensitivity (1W/1m) ⁴	109 dB

Frequency Range	0.5 - 20 kHz
Recommended crossover ⁵	0.8 kHz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Aluminium
Inductance	0.18 mH
Diaphragm Material	Titanium
Flux Density	1.95 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	154 mm (6.1 in)
Depth	86 mm (3.39 in)
Net Weight	3.6 kg (7.9 lb)
Shipping Weight	3.9 kg (8.6 lb)
Shipping Box	190x190x120 mm (7.48x7.48x4.72 in)
Replacement Diaphragm	MMD4BTN8M

¹ Driver mounted on B&C ME 60 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated

minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁴ Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance.

Average SPL from 2000 to 18000 Hz.

Average SPL from 1000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

DCX464

ND MF/HF COAXIAL



220 W
continuous program
power capacity

111.1 dB (MF)
111.4 dB (HF)
sensitivity

100 mm (4 in)
65 mm (2.5 in)
aluminium voice coil

300 - 18000 Hz
response

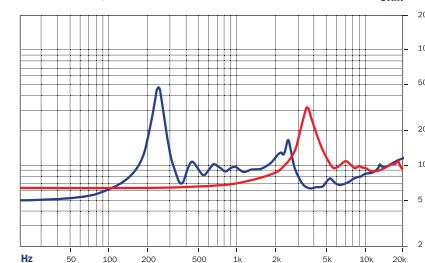
Time coherent coaxial
ring radiator design
Neodymium magnet
assembly

1.4"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS MF

Nominal Impedance	8 Ω
Minimum Impedance	6.4 Ω
Power Handling (0.3 - 3 kHz)	
Nominal (AES) ¹	110 W
Continuous Program ²	220 W
Sensitivity (1W/1m) ³	111.1 dB
Frequency Range	0.3 - 5.5 kHz
Recommended crossover ⁴	0.3 kHz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	HT Polymer
Flux Density	1.90 T
Magnet Material	Neodymium Ring

SPECIFICATIONS HF

Nominal Impedance	8 Ω
Minimum Impedance	9 Ω
Power Handling (4 - 20 kHz)	
Nominal (AES) ¹	80 W
Continuous Program ²	160 W
Sensitivity (1W/1m) ³	111.4 dB
Frequency Range	3.5 - 18 kHz
Recommended crossover ⁴	4 kHz
Voice Coil Diameter	65 mm (2.55 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	HT Polymer
Flux Density	2.14 T
Magnet Material	Neodymium Inside Slug

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	152 mm (5.98 in)
Depth	78 mm (3.07 in)
Net Weight	3.7 kg (8.2 lb)
Shipping Weight	3.9 kg (8.6 lb)
Shipping Box	170x170x140 mm (6.69x6.69x5.51 in)
Replacement Diaphragm	MF: MMDDCX464MF8
	HF: MMDDCX464HF8

¹ Driver mounted on 320 Hz exponential horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 3 kHz (MF) and 20kHz (HF). Power

calculated on rated

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁵ 12 dB/oct. or higher slope high-pass filter.

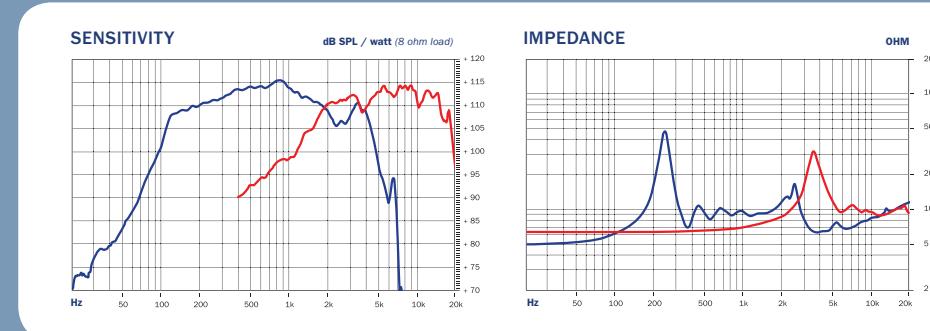
DCX462

ND MF/HF COAXIAL



220 W continuous program power capacity	100 mm (4 in) 65 mm (2.5 in) aluminium voice coil
111.1 dB (MF) 111.4 dB (HF) sensitivity	300 - 18000 Hz response

Time coherent coaxial ring radiator design
Neodymium magnet assembly
2" horn throat diameter



SPECIFICATIONS MF

Nominal Impedance	8 Ω
Minimum Impedance	6.4 Ω
Power Handling (0,3 - 3 kHz)	
Nominal (AES) ¹	110 W
Continuous Program ²	220 W
Sensitivity (1W/1m) ³	111.1 dB
Frequency Range	0.3 - 5.5 kHz
Recommended crossover ⁴	0.3 kHz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	HT Polymer
Flux Density	1.90 T
Magnet Material	Neodymium Ring

SPECIFICATIONS HF

Nominal Impedance	8 Ω
Minimum Impedance	9 Ω
Power Handling (4 - 20 kHz)	
Nominal (AES) ¹	80 W
Continuous Program ²	160 W
Sensitivity (1W/1m) ³	111.4 dB
Frequency Range	3.5 - 18 kHz
Recommended crossover ⁴	4 kHz
Voice Coil Diameter	65 mm (2.55 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	HT Polymer
Flux Density	2.14 T
Magnet Material	Neodymium Inside Slug

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	152 mm (5.98 in)
Depth	110 mm (4.33 in)
Net Weight	4 kg (8.8 lb)
Shipping Weight	4.2 kg (9.26 lb)
Shipping Box	170x170x140 mm (6.69x6.69x5.51 in)
Replacement Diaphragm	MF: MMDDCX464MF8 HF: MMDDCX464HF8

¹ Driver mounted on 320 Hz exponential horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 3 kHz (MF) and 20kHz (HF). Power

calculated on rated

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request
Also available DCX462 (2" exit)

DCM414

ND MF DRIVER



 ND
HF
DRIV
ERS

220 W
continuous program
power capacity

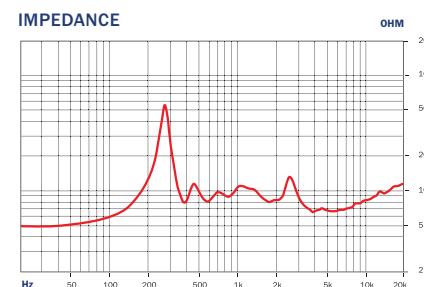
112 dB
sensitivity

100 mm (4 in)
aluminium voice coil

300 - 6000 Hz
response

Neodymium magnet
assembly

1.4"
horn throat
diameter



SPECIFICATIONS

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.7 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	112 dB

Frequency Range	0.3 - 6 kHz
Recommended crossover ⁵	0.3 kHz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Aluminium
Inductance	0.28 mH
Diaphragm Material	HT Polymer
Flux Density	1.9 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	152 mm (6 in)
Depth	62 mm (2.44 in)
Net Weight (1 unit)	2.3 Kg (5.07 lb)
Shipping Weight	2.5 kg (5.51 lb)
Shipping Box	170x170x140 mm (6.69x6.69x5.51 in)
Replacement Diaphragm	TBA

¹ Driver mounted on B&C LAB EXPONENTIAL horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated

minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁵ Average SPL from 2000 to 18000 Hz.

12 dB/oct. or higher slope high-pass filter.

Also available in **16 Ω**, data upon request
Also available DCM420 (2" exit)



Over the last decades, there has been a dramatic shift towards line arrays in the professional arena. This has emphasized the importance of a superior high frequency horn and driver combinations. B&C's high frequency drivers have long been considered the industry standard, but line array systems require controlled coverage patterns. We have researched many aspects of line array waveguides, and are proud to offer our customers a complete series of high frequency solutions for line array systems.

The **WGX** and **WG** series are based on our state of the art neodymium compression drivers coupled to a proprietary waveguide. These specially designed acoustic lenses create a well-behaved phase-coherent wavefront up to 15 kHz, and offer a very high Active Radiating Factor. Our engineering team has performed all of the critical tests to ensure that each aspect of line array performance has been carefully considered. The WGX and WG series are available as a complete assembly, combined with a wide variety of our 1" and 1.4" exit high frequency drivers.

WG400

LINE ARRAY SOURCE



LINE
ARR
AY
SOU
RCES

Line Array optimized
Waveguide with
DE400 driver

Polyimide diaphragm
Compact Neodymium
magnet assembly

100 W
continuous program
power capacity

44 mm (1.7 in)
aluminium voice coil

108.5 dB
sensitivity

1200 - 18000 Hz
response

140°
max horizontal
coverage

SPECIFICATIONS

Horizontal Coverage	140° max
Active Radiating Factor	92.5 %
Recommended Crossover ¹	1.5 kHz
Waveguide Material	Cast Aluminium
Nominal Impedance	8 Ω
Minimum Impedance	7.7 Ω
Power Handling	
Nominal (AES) ²	50 W
Continuous Program ³	100 W
Sensitivity (1W/1m) ⁴	108.5 dB
Frequency Range ⁵	1.2 - 18 kHz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Inductance	0.18 mH
Diaphragm Material	Polyimide
Flux Density	1.8 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

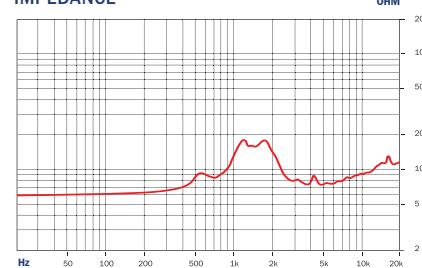
Waveguide Baffle	102x25 mm (4x1 in)
Cutout	86 mm (3.3 in)
Driver diameter	111x87x155 mm (4.4x3.5x6.1 in)
Dimensions	111x87x155 mm (4.4x3.5x6.1 in)
Net Weight	1.3 kg (2.9 lb)
Shipping Weight (4 units)	5.8 kg (12.79 lb)
Shipping Box (4 units)	265x245x240 mm (10.43x9.65x9.45 in)

Waveguide not sold separately
Not available in the USA

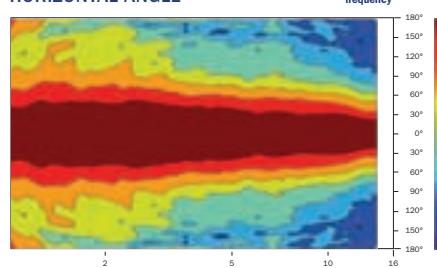
SENSITIVITY



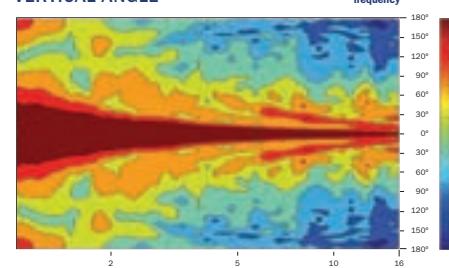
IMPEDANCE



HORIZONTAL ANGLE



VERTICAL ANGLE



¹ 12 dB/oct. or higher slope high-pass filter.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency

to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁵ Waveguide mounted on 90° x 10° bell horn.

WGX880TN

LINE ARRAY SOURCE



LINE
ARR
AY
SOU
RCES

Line Array optimized
Waveguide with
DE880TN driver

Titanium diaphragm

Neodymium magnet
assembly with
shorting copper cap

120°
max horizontal
coverage

220 W
continuous program
power capacity

75 mm (3 in)
aluminium voice coil

108 dB
sensitivity

500 - 17000 Hz
response

SPECIFICATIONS

Horizontal Coverage	120 ° max
Active Radiating Factor	93.7 %
Recommended Crossover ¹	0.8 kHz
Waveguide Material	Cast Aluminium
Nominal Impedance	8 Ω
Minimum Impedance	8.1 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	108 dB
Frequency Range ⁵	0.5 - 17 kHz
Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Diaphragm Material	Titanium
Flux Density	1.85 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

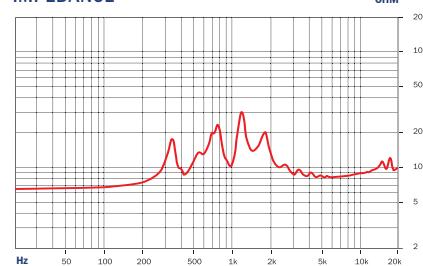
Waveguide Baffle	
Cutout	153x25 mm (6x1 in)
Driver diameter	124 mm (4.9 in)
Dimensions	163x130x235 mm (6.4x5.1x9.3 in)
Net Weight	3.1 kg (6.83 lb)
Shipping Weight	3.2 kg (7.05 lb)
Shipping Box	245x140x175 mm (9.6x5.5x6.9 in)

Waveguide not sold separately

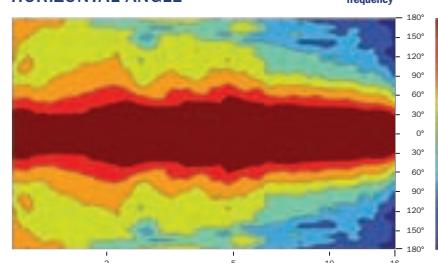
SENSITIVITY



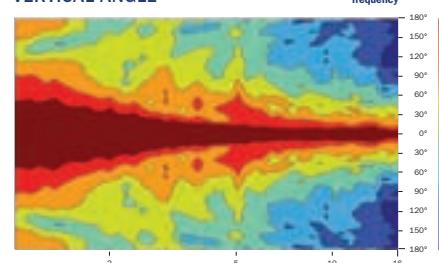
IMPEDANCE



HORIZONTAL ANGLE



VERTICAL ANGLE



¹ 12 dB/oct. Or higher slope high-pass filter.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency

to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁵ Waveguide mounted on 90° x 10° bell horn.

WGX1090TN

LINE ARRAY SOURCE



LINE
ARR
AY
SOU
RCES

Line Array optimized
Waveguide with
DE1090TN driver

Titanium diaphragm

Neodymium magnet
assembly with shorting
copper cap

120°
max horizontal
coverage

240 W
continuous program
power capacity

100 mm (4 in)
aluminium voice coil

108 dB
sensitivity

500 - 18000 Hz
response

SPECIFICATIONS

Horizontal Coverage	120° max
Active Radiating Factor	93.7 %
Recommended Crossover ¹	0.8 kHz
Waveguide Material	Cast Aluminium
Nominal Impedance	8 Ω
Minimum Impedance	8 Ω
Power Handling	
Nominal (AES) ²	120 W
Continuous Program ³	240 W
Sensitivity (1W/1m) ⁴	108 dB
Frequency Range ⁵	500 - 18 kHz
Voice Coil Diameter	100 mm (4.0 in)
Winding Material	Aluminium
Inductance	0.18 mH
Diaphragm Material	Titanium
Flux Density	1.9 T
Magnet Material	Neo Inside Ring

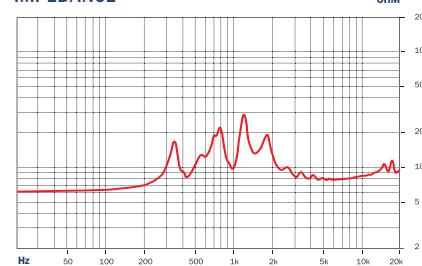
MOUNTING AND SHIPPING INFORMATION

Waveguide Baffle	
Cutout	153x25 mm (6x1 in)
Driver diameter	127 mm (5.0 in)
Dimensions	163x130x234 mm (6.4x5.1x9.2 in)
Net Weight	2.9 kg (6.39 lb)
Shipping Weight	3 kg (6.61 lb)
Shipping Box	245x140x175 mm (9.6x5.5x6.9 in)

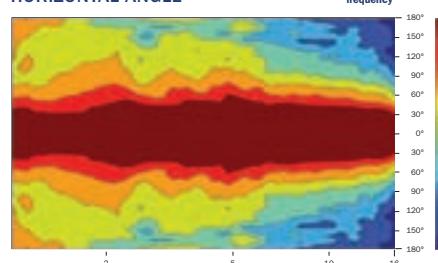
SENSITIVITY



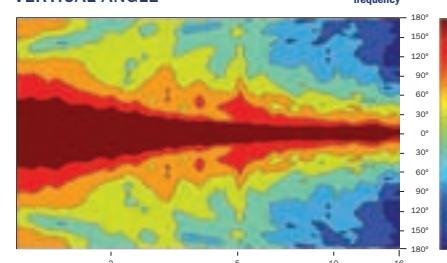
IMPEDANCE



HORIZONTAL ANGLE



VERTICAL ANGLE



¹ 12 dB/oct. or higher slope high-pass filter.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency

to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁵ Waveguide mounted on 90° x 10° bell horn.

Waveguide not sold separately



The range of B&C electro-acoustic systems is completed by a series of high frequency horns. The range includes constant directivity models that are known for their great consistency in angular coverage, and exponential models that optimize acoustical load and acoustic energy transfer. Standardized diameters give designers the freedom to choose the best driver/horn combination for each project.

B&C SPEAKERS

®

ME10

HORN

SPECIFICATIONS¹

Throat Diameter	25 mm (1 in)
Nominal Coverage	
Horizontal	90°
Vertical	60°
Cutoff Frequency	1.5 kHz
Material	ABS
Dimensions	130.5x130.5x90 mm (5.1x5.1x3.5 in)

MOUNTING AND SHIPPING INFORMATION

Four 6mm(0.25 in) holes 90° on 76 mm (3 in) diameter	
Baffle Cutout Dimensions	104x104 mm (4.1x4.1 in)
Net Weight (1 unit)	0.15 kg (0.33 lb)
Shipping Weight (20 units)	6 Kg (13.2 lb)
Shipping Box (20 units)	540x350x390 mm (21.2x13.8x15.3 in)

¹ Horn mounted on B&C DE10 compression driver.

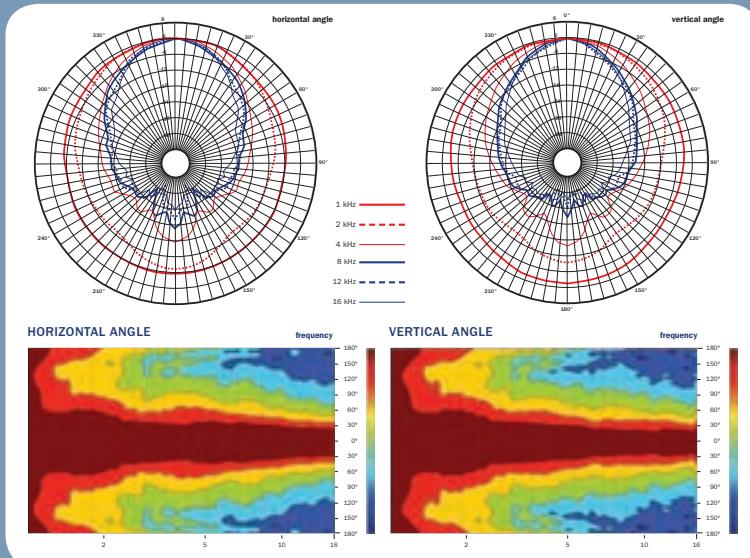


1"
throat entry

90° x 60°
nominal coverage

Hyperbolic
cosine flare

Excellent loading
down to 1.5 kHz



ME20

HORN

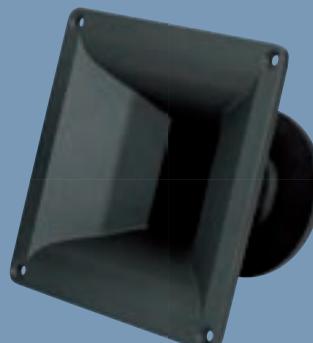
SPECIFICATIONS¹

Throat Diameter	25 mm (1 in)
Nominal Coverage	
Horizontal	90°
Vertical	60°
Cutoff Frequency	1.5 kHz
Material	Cast Aluminium
Dimensions	145x145x90 mm (5.7x5.7x3.6 in)

MOUNTING AND SHIPPING INFORMATION

Two 6mm(0.25 in) holes 180° on 76 mm (3 in) diameter	
Baffle Cutout Dimensions	118x113 mm (4.6x4.4 in)
Net Weight (1 unit)	0.45 kg (1 lb)
Shipping Weight (20 units)	12.0 Kg (26.4 lb)
Shipping Box (20 units)	540x350x390 mm (21.2x13.8x15.3 in)

¹ Horn mounted on B&C DE500 compression driver.

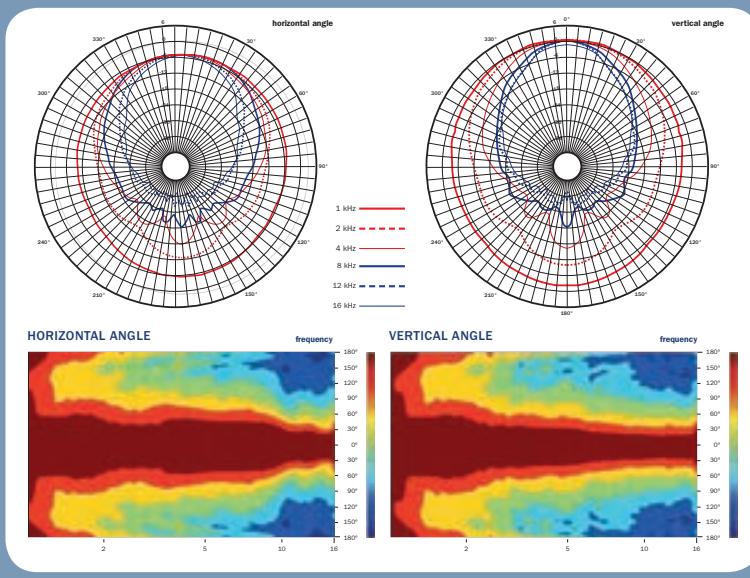


1"
throat entry

90° x 60°
nominal coverage

Exponential
flare

Excellent loading
down to 1.5 kHz



B&C SPEAKERS

®

ME45

HORN

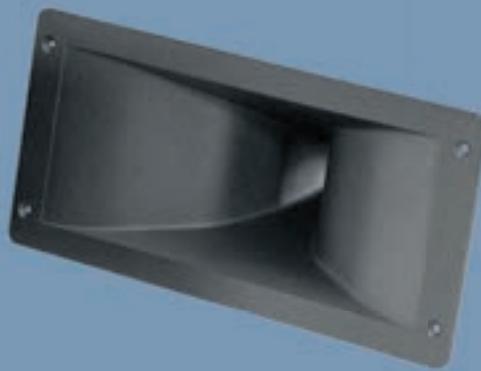
SPECIFICATIONS¹

Throat Diameter	25 mm (1 in)
Nominal Coverage	
Horizontal	90°
Vertical	40°
Cutoff Frequency	1 kHz
Material	Cast Aluminum
Dimensions	310x140x124 mm (12.5x5.5x4.9 in)

MOUNTING AND SHIPPING INFORMATION

Two 6.5 mm (0.25 in) holes 180° on 76 mm (3 in) diameter	
Baffle Cutout Dimensions	260x110 mm (10.2x4.3 in)
Net Weight (1 unit)	0.8 kg (1.8 lb)
Shipping Weight (4 units)	4.9 Kg (10.8 lb)
Shipping Box (4 units)	540x350x185 mm (21.2x13.8x7.3 in)

¹ Horn mounted on B&C DE25 compression driver.

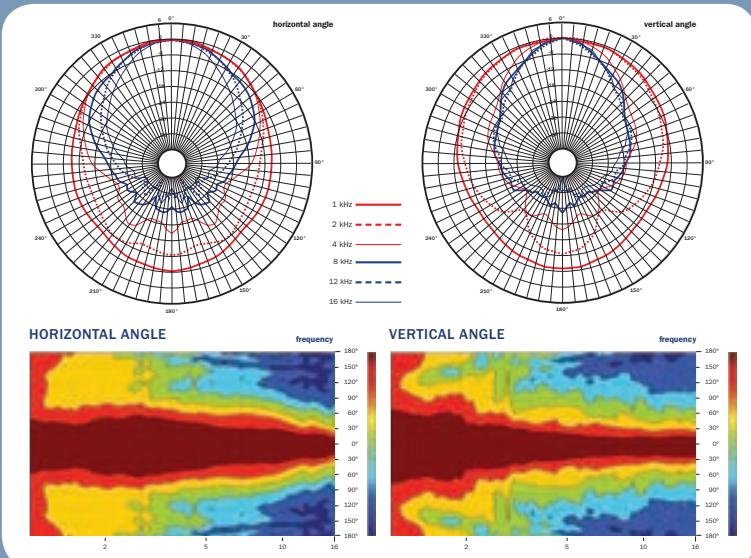


1"
throat entry

Exponential
flare

90° x 40°
nominal coverage

Excellent loading
down to 1 kHz



ME90

HORN

SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Coverage	
Horizontal	80°
Vertical	60°
Cutoff Frequency	900 Hz
Material	Cast Aluminum
Dimensions	270x270.5x138 mm (10.6x10.6x5.4 in)

MOUNTING AND SHIPPING INFORMATION

Four 6.5 mm (0.25 in) holes 90° on 102 mm (4 in) diameter	
Baffle Cutout Dimensions	225x225 mm (8.8x8.8 in)
Net Weight	1.4 kg (3.1 lb)
Shipping Weight	2 Kg (4.4 lb)
Shipping Box	295x314x175 mm (11.6x12.4x6.9 in)

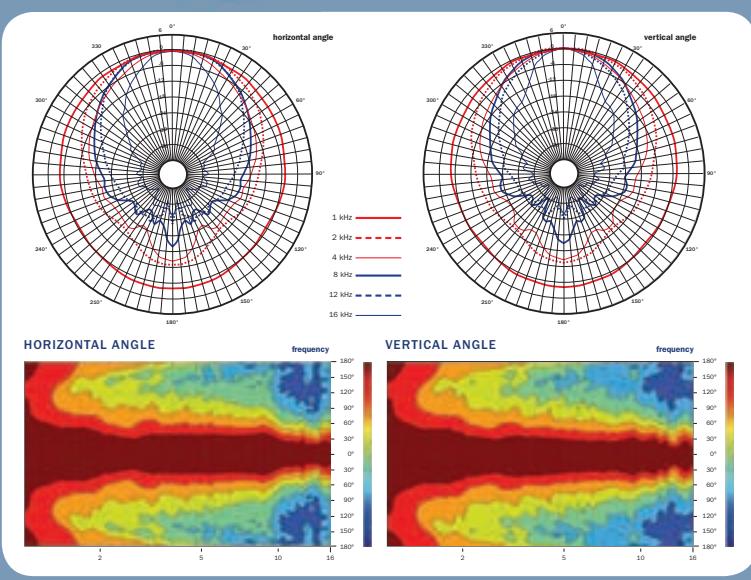


1.4"
throat entry

Constant
directivity

80° x 60°
nominal coverage

Excellent loading
down to 900 Hz



¹ Horn mounted on B&C DE900 compression driver.

ME60

HORN



2"
throat entry

60° x 40°
nominal coverage

Constant
directivity

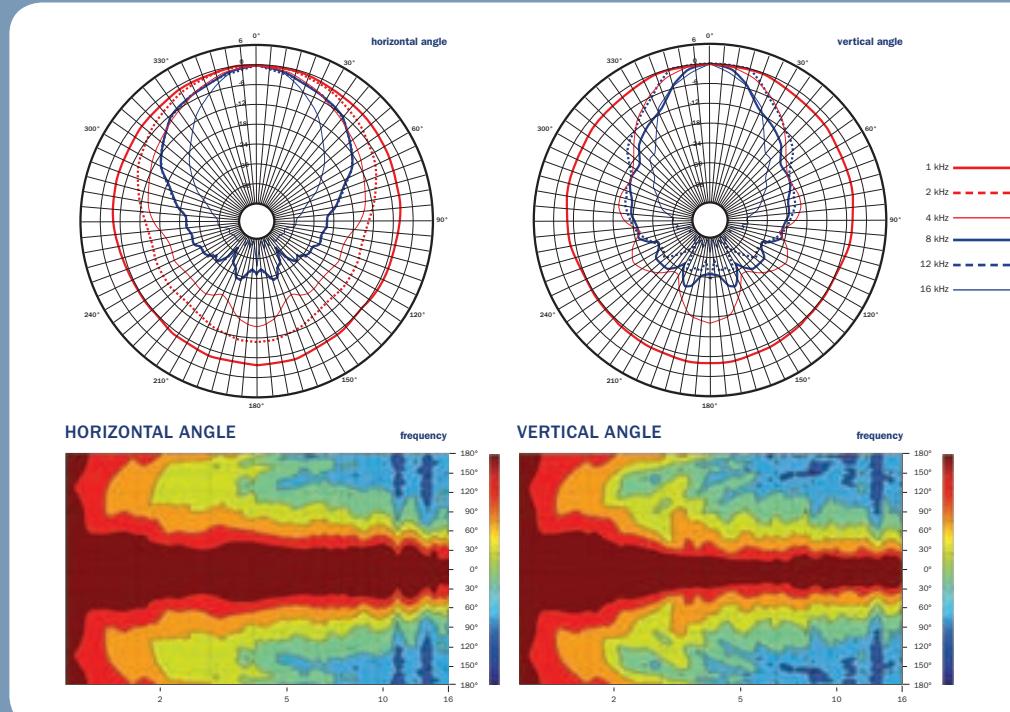
Excellent loading
down to 800 Hz

SPECIFICATIONS¹

Throat Diameter	50 mm (2 in)
Nominal Coverage	
Horizontal	60°
Vertical	40°
Cutoff Frequency	800 Hz
Material	Cast Aluminium
Dimensions	270x237x202 mm (10.6x9.3x7.9 in)

MOUNTING AND SHIPPING INFORMATION

Four 6.5 mm (0.25 in) holes 90° on 102 mm (4 in) diameter	
Baffle Cutout Dimensions	232x207 mm (9.1x8.1 in)
Net Weight	1.6 kg (3.5 lb)
Shipping Weight	2.2 Kg (4.8 lb)
Shipping Box	290x260x260 mm (11.4x10.2x10.2 in)



Horn mounted on B&C DE750 compression driver.

B&C SPEAKERS

®

www.bcspeakers.com