







## **ES 250 D** 500 Watt

#### **Technical Specifications**

Component:		Subwoofer
Size	mm	250 (10")
Power Handling (Watt)	peak continuous progra	500 m 250
Impedance	Ohm	4 + 4
Frequency response	Hz	28 - 300
Sensitivity	dB/SPL	91,5
Outer diameter	mm	264
Mounting hole diameter	mm	234
Magnet size	mm	120
Total depth	mm	136
Mounting depth	mm	119
Total driver displacement	lit :	1,2
Weight of one component	e Kg	3,930
Voice coil diameter	mm	50
Magnet Double Coil, Double magnet, High density flux ferrite		
Cone Water repellent, pressed paper cone		
Xmech*	mm	14.5

**Xmech\*** maximum mechanic excursion: it indicates the motion range in the speaker linear functioning area, in both ways.

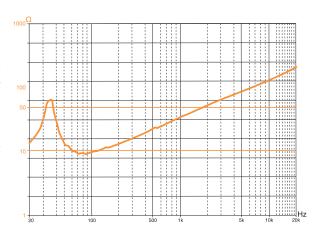
## Electro-Acoustic Parameters

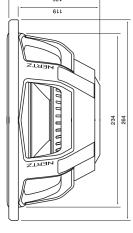
D	mm	212
Xmax	mm	9
Re	Ohm	2,0
Fs	Hz	32
Le	mH@1kHz	1,38
Le	mH@10kHz	0,51
Vas	lit	46,70
Mms	gr	92,0
Cms	mm/N	0,27
BL	T-m	7,00
Qts		0,66
Qes		0,74
Qms		7,00
Spl (1m/2,	<b>83V)</b> dB	91,5

\*Coils in parallel



- 1 High thermal dissipation and magnetic permeability plates, providing constant, even flux.
- 2 Large double magnet, for perfect control under high power, high excursion conditions.
- 3 Copper voice coil, wound on aluminium former, for startling thermal and mechanical capacity.
- 4 Back plate vent holes, for very good thermal dissipation.
- **5** Back Vented Spider support, for perfect symmetry under high excursion and thermal dissipation.
- 6 Butyl rubber gasket provides ideal coupling to the mounting surface damping basket resonance.
- 7 Butyl rubber magnet ring provides protection against abrasions.
- 8 Internally reinforced basket, protected from abrasions by high resistance paint.
- 9 High current, tin-plated terminals.
- 10 Silver plated silicone shielded lead wires for maximum reliability and conductivity.
- 11 Basket and motor coupled and damped through special epoxy glue.
- 12 Wide-wave, resin-bonded fibre spider for mechanical reliability and consistent parameters.
- 13 High density Foam surround, for linear movement even under high excursion conditions.
- 14 Water-repellent pressed paper cone.









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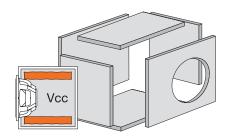


**ES 250 D** 

The speaker overall volume must be taken into account when designing a box: if the driver is mounted with its magnet facing the box inner part, add the volume indicated in the Technical Specifications (Total driver displacement) to total volume calculation. The volumes of Reflex projects include tubes and ports overall dimensions.

#### **Sealed Box - Dimension**

The box is deliberately small in order to optimize the overall bulk at most; this is the right solution for those who have a narrow space but nevertheless do not renounce a powerful bass.



Sealed Box

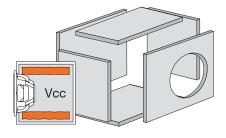
Vcc = 17 Lit Fc = 57 Hz

#### Damping material:

FONOFORM on all the inside walls except for the speaker's

#### **Sealed Box - Performance**

Bigger, both in dimensions and sound, it responds with a full bodily bass and excellent dynamics.

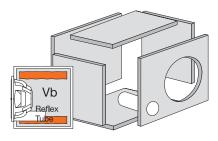


**Sealed Box** 

Vcc = 22,7 Lit Fc = 54 Hz

#### Damping material:

FONOFORM on all the inside walls except for the speaker's



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FONOFORM on all the inside walls except for the speaker's

#### **Reflex Box - Dimension**

Almost the same dimensions as the Sealed Box Performance, yet offering a wider extension, with a strong sound and an excellent articulation.

#### Reflex Box

**Vb** = 20 Lit **Fb** = 46 Hz

Reflex Tube
Ø = AR65V
L = 105 mm

# Vb

#### Damping material:

FONOFORM on all the inside walls except for the speaker's

#### **Reflex Box - Performance**

Great power handling, high sensitivity values and great impact; this is the biggest sub for a powerful bass with every kind of music.

### Reflex Box

**Vb** = 28 Lit **Fb** = 35 Hz

#### Reflex Tube

Ø= AR65V L= 155 mm