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ener6y

es 250

soo watt

Technical Specifications

Component		Subwoofer
Size	mm	250 (10")
Power Handling (Watt)	peak continuous program	500 250
Impedance	Ohm	4
Frequency response	Hz	28-300
Sensitivity	dB/SPL	93
Outer diameter	mm	264
Mounting hole diameter	mm	230
Magnet size	mm	120
Total depth	mm	136
Mounting depth	mm	123,5
Total driver displacement	lit	1,2
Weight of one component	kg	3,92
Voice coil diameter	mm	50
Magnet		Double magnet, High density ferrite
Cone		Water-repellent, pressed paper cone
Xmech*	mm	14,5



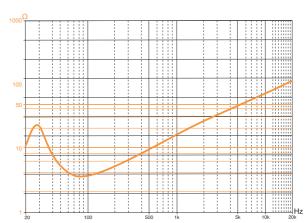
D	mm	210
Xmax	mm	9
Re	ohm	2,6
Fs	Hz	27
Le	mH@1kHz	2,42
Le	mH@10kHz	1,11
Vas	lit	55,40
Mms	gr	105,8
Cms	mm/N	0,33
BL	T-m	10,60
Qts		0,37
Qes		0,41
Qms		3,23
Spl (1m/2,83V)	dB	93

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

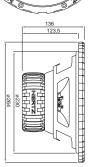


- High thermal dissipation and magnetic permeability plates.
- Big, high power double magnet.
- Pure copper voice coil, wound on Kapton former.
- Back vented hole.
- Butyl rubber gasket for mounting surfaces coupling.
- Butyl rubber protective ring.
- Internally reinforced basket, protected from abrasions by high resistance paint.
- High current, gold-plated terminals.
- Basket and motor are coupled and damped through special epoxy glue.
- Wide-wave, resin-bonded fibre spider.
- High density rubber surround, for mobile voice coil linear, long excursion.
- Water-repellent pressed paper cone.

Impedance







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desien es 250

Sealed Box

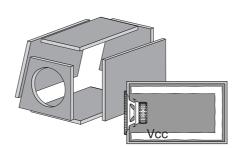
good dynamics.

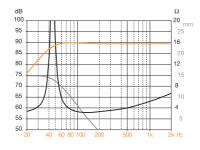
It is the best compromise

between size and performances; it insures powerful bass and

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, Asymmetric Bandpass and Double Reflex projects include tubes and ports overall dimensions.



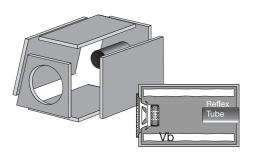


 Sealed Box

 Vcc =
 20
 Lit

 Fc =
 43
 Hz

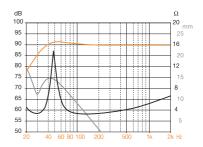
 F-3 =
 38
 Hz



Reflex Box

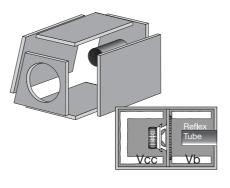
Bigger than Sealed Box, it permits to have better power handling and fast, wide sound.

Reflex Box Vb = 28 Lit Fb = 27 Hz Reflex Tube Ø = 62 M = 260 mm



Asymmetric Bandpass

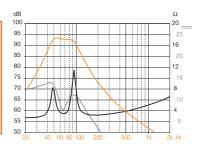
It combines the qualities of the two previous projects with high power handling and fast, clear bass. Suitable to any kinds of music.

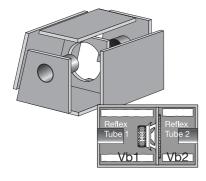


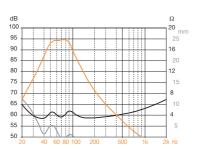
Asymmetric Bandpass Vcc= 8 Lit

Vb = 19 Lit **Fb** = 65 Hz

Ø= 100 mm **L**= 200 mm







Double Reflex

 Vb1 = 16
 Lit
 Vb2 = 20
 Lit

 Fb1 = 75
 Hz
 Fb2 = 40
 Hz

 Reflex Tube 1

 Ø = 100
 mm
 Ø = 62
 mm

 L = 145
 mm
 L = 160
 mm

Double Reflex

It is more difficult to build and bigger. Perfect for techno and disco music.