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Technical Specifications

Component		Subwoofer
Size	mm	300 (12")
Power Handling (Watt)	peak continuous program	700 350
Impedance	Ohm	4
Frequency response	Hz	25-250
Sensitivity	dB/SPL	94
Outer diameter	mm	312
Mounting hole diameter	mm	277
Magnet size	mm	140
Total depth	mm	146
Mounting depth	mm	132
Total driver displacement	lit	1,8
Weight of one component	kg	4,93
Voice coil diameter	mm	60
Magnet		Double magnet, High density ferrite
Cone		Water-repellent, pressed paper cone
Xmech*	mm	14,5



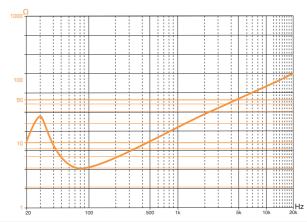
D	mm	258
Xmax	mm	9
Re	ohm	2,9
Fs	Hz	28
Le	mH@1kHz	2,66
Le	mH@10kHz	1,17
Vas	lit	89,40
Mms	gr	151,2
Cms	mm/N	0,21
BL	T-m	13,46
Qts		0,38
Qes		0,43
Qms		3,45
Spl (1m/2,83V)	dB	94

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

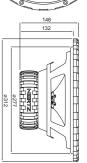


- High thermal dissipation and magnetic permeability plates.
- Big, high power double magnet.
- Pure copper voice coil, wound on Kapton former.
- · Back vented hole.
- Butyl rubber gasket for mounting surfaces coupling.
- Butyl rubber protective ring.
- Internally reinforced basket, protected from abrasions 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







NG 12/01/2004





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Sealed Box

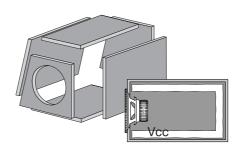
good dynamics.

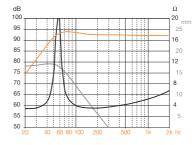
It is the best compromise

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.



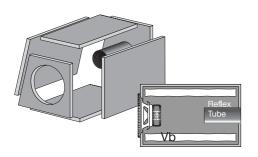


 Sealed Box

 Vcc =
 25
 Lit

 Fc =
 50
 Hz

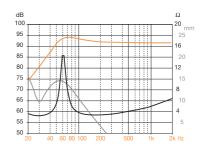
 F-3 =
 45
 Hz



Reflex Box

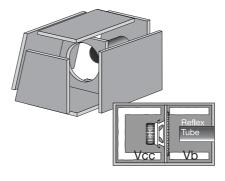
Bigger than Sealed Box, it permits to have better power handling and fast, wide sound.

Reflex Box
Vb = 34 Lit
Fb = 28 Hz
Reflex Tube
Ø = 62 mm
L = 270 mm



Asymmetric Bandpass

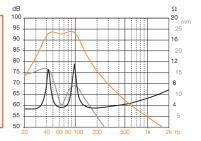
It combines the qualities of the two previous projects with high power handling and fast, clear bass. Suitable to any kinds of music.

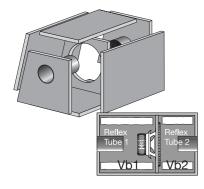


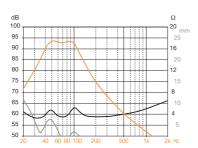
Asymmetric Bandpass Vcc= 16 Lit

Vb = 25 Lit **Fb** = 65 Hz **Reflex Tube**

Ø= 100 mm L= 145 mm







Double Reflex

 Vb1 = 20
 Lit
 Vb2 = 30
 Lit

 Fb1 = 76
 Hz
 Fb2 = 35
 Hz

 Reflex Tube 1

 Ø = 100 mm
 Ø = 82 mm

 L = 145 mm
 L = 310 mm

Double Reflex

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