



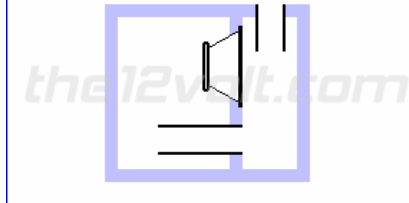
Subwoofer Enclosures, Sixth and Eighth Order, Bass Reflex, Bandpass

DC-DC Step Down Power Supply Module



Banggood.com With LCD Display Adjustable Module

Quasi-Sixth Order Series-Tuned Bandpass



Most often only seen in SPL competitions, the sixth & eighth order bandpass and Quasi-sixth & Quasi-eighth order bandpass enclosures can offer a GREAT deal of SPL in a "relatively" small enclosure if built "dead on balls accurate", but often (expletive

removed) at reproducing anything worth listening to in the mobile environment. Unless precisely constructed, the end result is almost guaranteed to be a waste of time, money, and effort.

Don't let my opinions stop you from trying. Remember, it doesn't matter what I like or for that matter what anyone else likes. It only matters what you like. So if you're feeling ambitious, and want something that has the

potential of being incredibly loud, go for it, but keep the following in mind and please do not email me if you wait a few hundred dollars or more on lumber, hardware, and replacing blown woofers. The only response you'll get from me is "I told you so." Enough of my rambling (heh). Here's what you should know.

The enclosure's performance is limited to a very narrow bandwidth of frequency response and can be extremely complex to build correctly. Woofers are very susceptible to cone over-exursion for frequencies outside of their operating region (specifically when they unload below the tuned port frequency). For this reason alone a high quality electronic crossover should be used with a 24 dB per octave cut-off slope or higher and each woofer should be fused appropriately.

It is unlikely that you will be able to hear when a woofer in these enclosures is about to turn into a paper weight, but once you do notice it, it's probably too late. And now if you haven't made the enclosure so it's easy to change the woofer, you're probably wishing that you never decided to build it in the first place.

The transient response of a sixth order enclosure is worse than any other enclosure with the exception of an eighth order enclosure. The power handling is excellent within the bandpass region and SPL can be intense. This is what makes these a great choice for **some** SPL competitors, but for everyday listening, they are less than desirable.

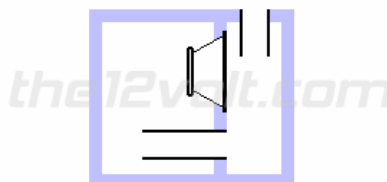
So why did I make this page about sixth and eighth order enclosures? Mainly so you can recognize these enclosures and perhaps if you happen to see any in use, you'll have some appreciation for the effort that went in to the design and construction of them. I take my hat off to those that have done it correctly, but as you can tell, these are not enclosures that I feel are worth trying to incorporate into a mobile environment. For the amount of space, time, money, and effort it takes to build any of these enclosures, you can more easily build enclosures that are more suitable for everyday listening and that can be just as competitive. Below are several examples of sixth and eighth order enclosures.

Sixth and Eighth Order/Bass Reflex and Bandpass Enclosures:

- [Quasi Sixth Order Series-Tuned Bandpass](#)
- [Isobaric Quasi Sixth Order Series-Tuned Bandpass](#)
- [Dual Reflex Bandpass](#)
- [Isobaric Dual Reflex Bandpass](#)
- [Three Chamber Dual Reflex Bandpass](#)
- [Isobaric Three Chamber Dual Reflex Bandpass](#)
- [Quasi Eighth Order Series-Tuned Dual Reflex Bandpass](#)
- [Isobaric Quasi Eighth Order Series-Tuned Dual Reflex Bandpass](#)
- [Eighth Order Triple Reflex Bandpass](#)
- [Isobaric Eighth Order Triple Reflex Bandpass](#)

Sixth Order Enclosures

Quasi-Sixth Order Series-Tuned Bandpass



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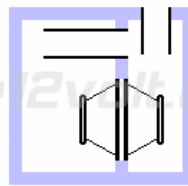


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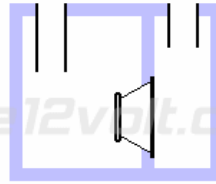
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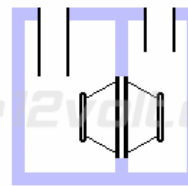
Isobaric
Quasi-Sixth Order
Series-Tuned Bandpass



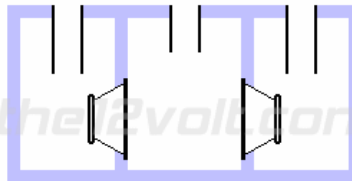
Dual Reflex Bandpass Enclosure



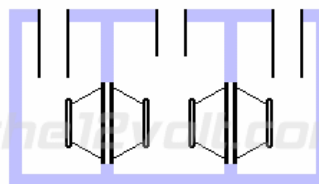
Isobaric
Dual Reflex Bandpass Enclosure



Three Chamber
Dual Reflex Bandpass Enclosure



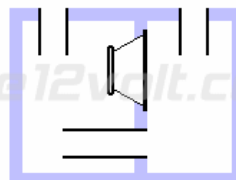
Isobaric Three Chamber
Dual Reflex Bandpass Enclosure



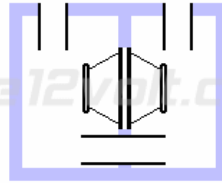
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Eighth Order Enclosures

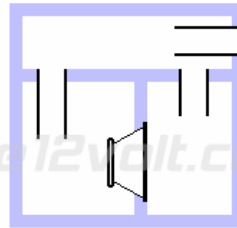
Quasi Eighth Order
Series Tuned Dual Reflex
Bandpass Enclosure



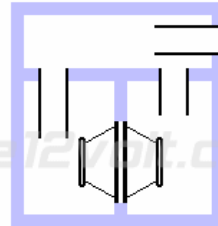
Isobaric Quasi Eighth Order
Series Tuned Dual Reflex
Bandpass Enclosure



Eighth Order Triple Reflex
Bandpass Enclosure



Isobaric
Eighth Order Triple Reflex
Bandpass Enclosure



Subwoofer Enclosures:

- Calculators: Parallel, Series, Port Length, & Volume
- Second Order / Infinite Baffle / Free Air
- Second Order / Acoustic Suspension / Sealed Enclosures
- Fourth Order / Bass Reflex & Bandpass Enclosures
- Sixth & Eighth Order / Bandpass Enclosures
- Subwoofer Wiring Wizard
- Thiele - Small Parameters
- Brian Steele's The Subwoofer DIY Page v1.1

Car Audio:

- Glossary of Terms and Definitions
- Ohm's Law
- Passive Crossovers & Calculators
- Metra Application Guides
- Power and Ground Cable Sizes
- Subwoofer Enclosures & Calculators
- Subwoofer Wiring
- the12volt's Application Guide
- the12volt's Install Bay (forums)
- Thiele - Small Parameters
- Tools & Equipment

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