

## Application Notes: XLS Subwoofer 830842

Driver Highlights: Thick Nomex cone, 51 mm voice coil, ALP

### Tuning with Passive radiators

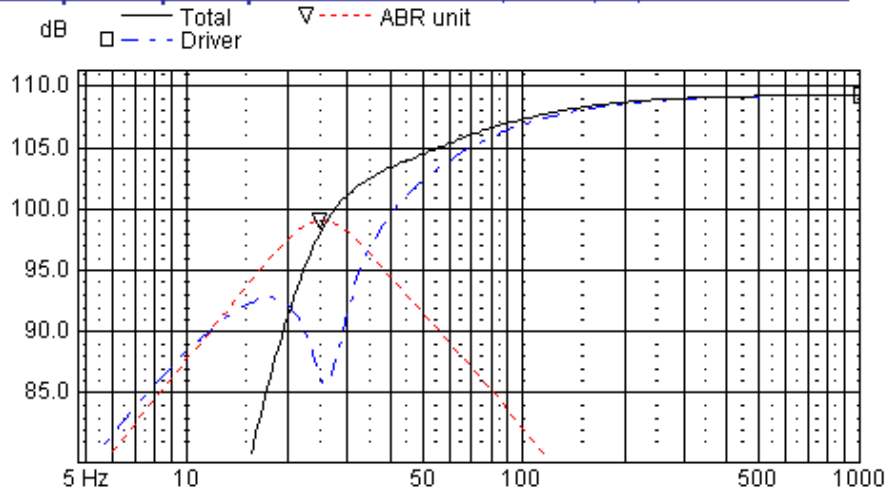
Peerless offers specially designed 10" XLS passive radiators for this alignment.  
Type: 830481.

#### Specifications for XLS passive radiator: 830481

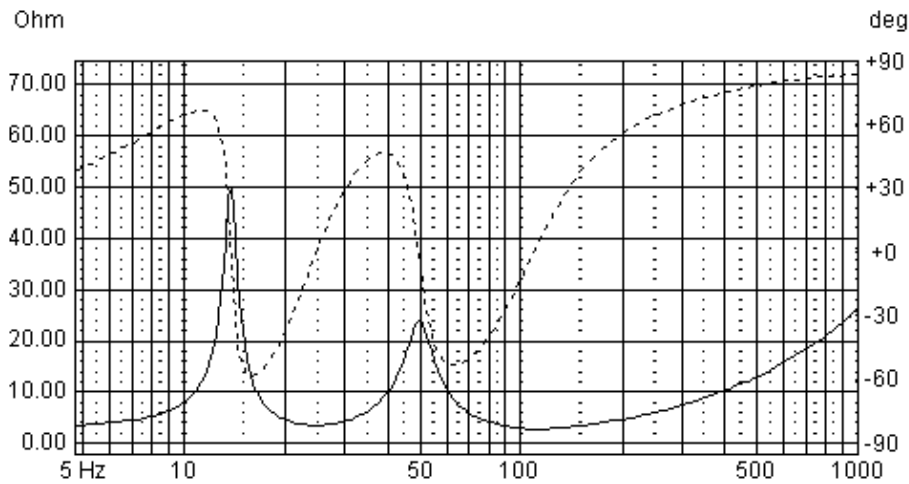
Resonance Frequency	fs	(Hz)	11.2
Mechanical Q factor	Qms		14
Equivalent volume	VAS	(ltrs)	80
Mechanical resistance	Rms	(Kg/s)	2
Moving mass	Mms	(g)	400
Suspension compliance	Cms	(mm/N)	0.508
Effective piston area	Sd	(cm <sup>2</sup> )	352
Xmax Peak		mm	22

<b>SYSTEM PROPERTIES</b>		
<b>Alignment</b>	Passive Radiator	
<b>DRIVE UNIT</b>	830842	
<b>Passive radiator</b>	830481	
<b>Box Volume</b>	20	Ltr.
<b>Number of passive rad.</b>	1	Pcs.
<b><math>f_{bass}</math></b>	11.2	Hz
<b>Fill</b>	3	%
<b><math>F_B</math></b>	26.2	Hz

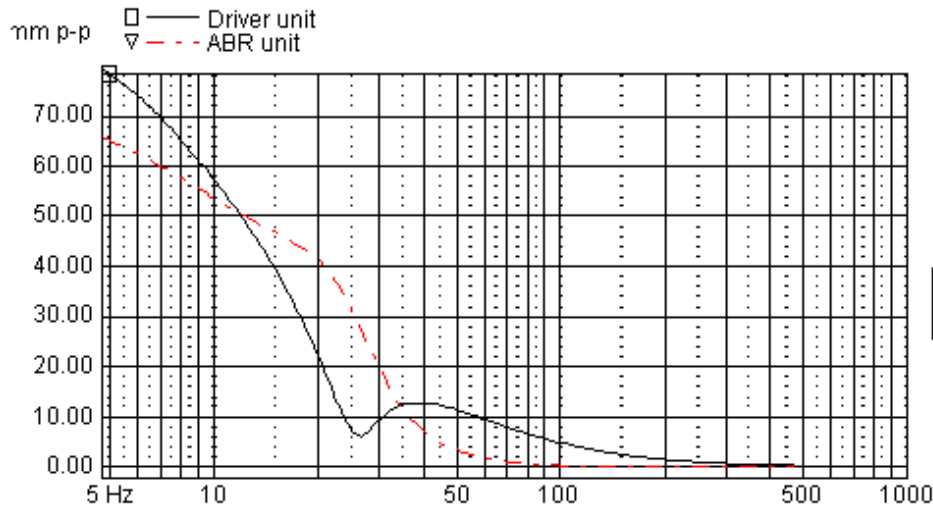
## Frequency response : Half Space (2 $\pi$ ) 1m distance



## Impedance



## Excursion



## Transient Response: Impulse

