

## Wib100\_vPA-S

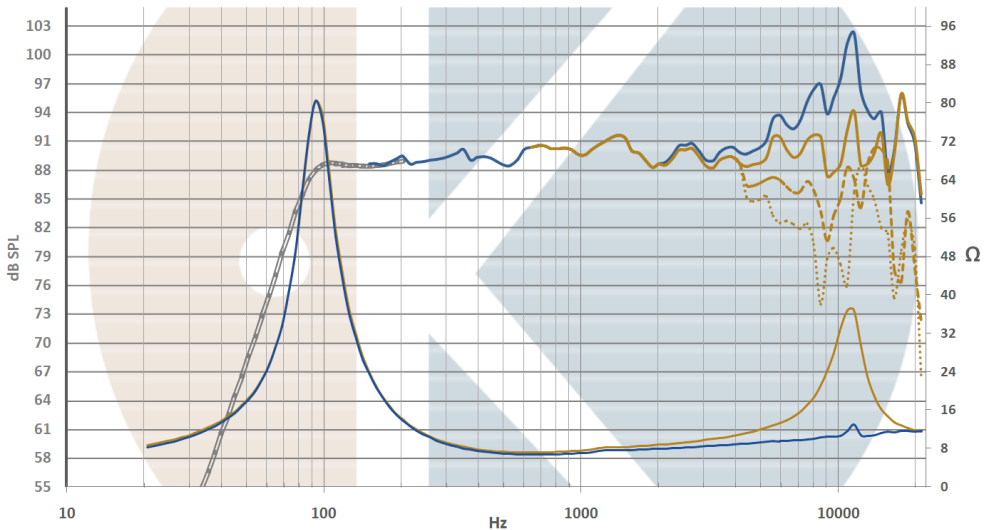
Professional 4" wideband.



Wib100\_vPA-S is a professional 4 inch wideband engineered for compact and powerful systems. It is built with 38.5mm diameter voice coil to ensure reliability during long period and high input power. The advanced motor structure uses 2x NdFeB magnets (grade N40H), a cooper ring and optimized pole pieces to keep very low THD.

The membrane is built with specific long fibers pressed paper and Aluminum dust cap.

We suggest to use LRC notch filter (as described here after) to get more linear response in high frequency.



On IEC baffle / Distance: 1m / Signal input: 2,83V / Dash curves: 30° and 60°  
Blue: Raw response - Yellow: Response with RLC notch filter (R:18Ω, L:0.1mH, C:2μF)  
Impedance measured in free air / Smoothing: 1/12 Octave  
Curve below 150Hz is simulated in 1.2L vented enclosure, Fc = 90Hz

## Wib100\_vPA-S

Our products can be adapted to your technical requirements and brand spirit.

[www.Kartesian-acoustic.com](http://www.Kartesian-acoustic.com) Rue Jean Sapidus, 67400 Illkirch, France



## Advanced construction

### Membrane

Long fiber treated paper cone  
Conical Aluminum dust cap

### Suspension

Damped fabric surround ("M" shape)  
Nomex spider

### Voice coil:

Ø38.5mm, CCA Wire  
Glass fiber former

### Motor structure:

Dual NdFeB magnets (N40H graded)  
Demodulated by Cooper ring  
Linear inductance devices

### Frame

Stamped steel frame  
Vented spider

## T&S

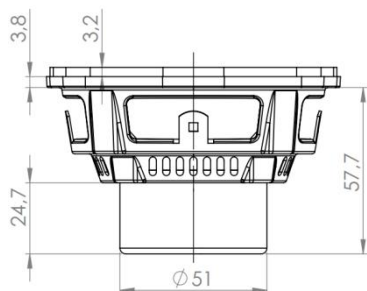
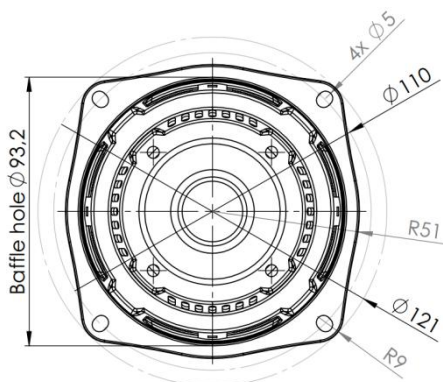
Fs 94Hz  
SPL 89.5dB/2.8V/1m  
Re 5.6Ω

Qms 3.45  
Qts 0.274  
Bl 9N/A

VAS 1.41L  
Mms 7.3g  
Sd 50.3cm<sup>2</sup>

Linear excursion: +/-2.5mm  
Maximal excursion: +/-3.5mm

Nominal power: 60W  
Maximal power handling: 150W  
*(with high pass filter at 60Hz - 6dB/Oct.)*



## Integrated innovation



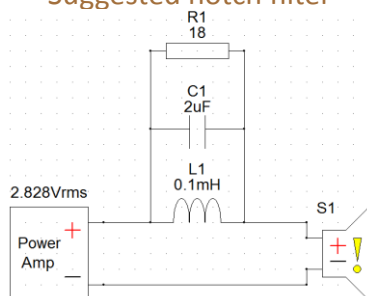
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## Suggested notch filter



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