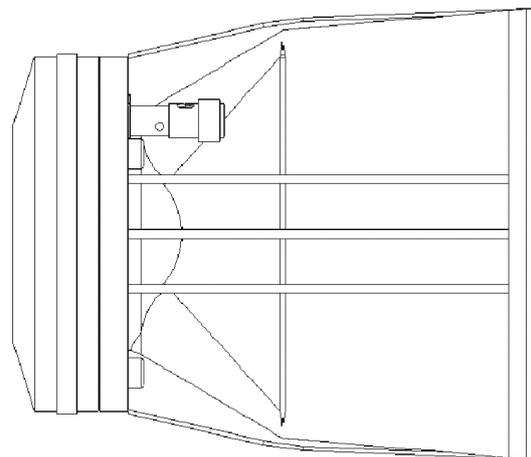
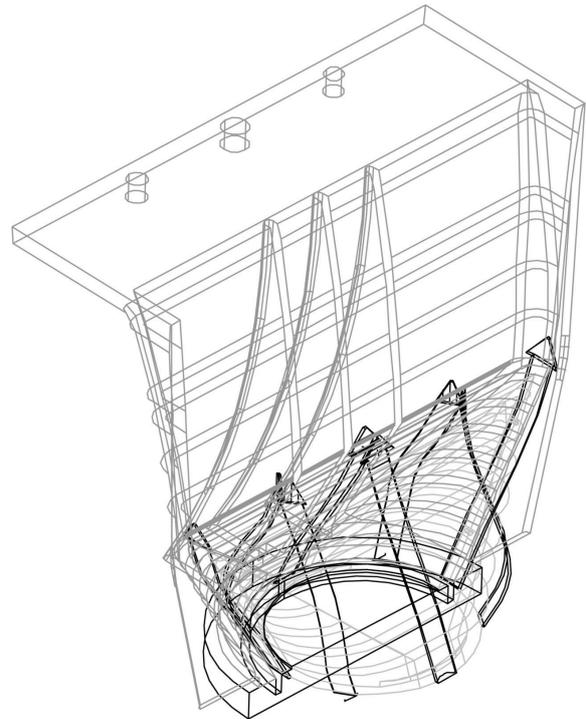
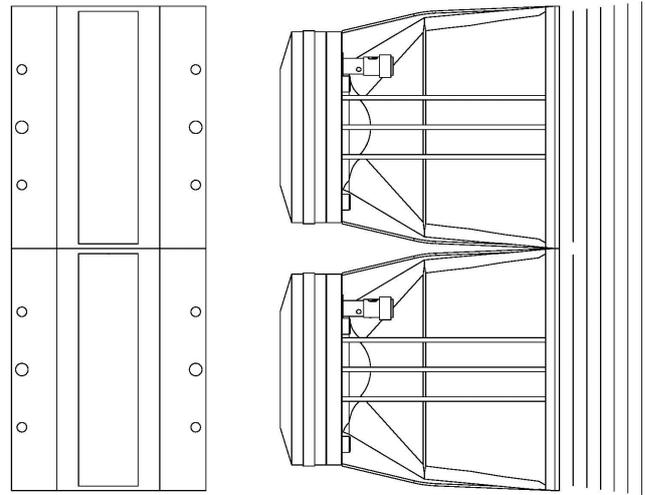


The BMS 4510ND planar wave driver radiates a coherent planar wave front from a rectangular piston without internal diffraction for superior dispersion control and high fidelity sound. This distinctive new transducer was engineered to work with 4-inch (4" x 1") rectangular throat waveguide providing extremely high sensitivity.

The 4510ND is optimized for 10° vertical dispersion and allows a horizontal coverage from 60° to 120° depending on the waveguide used. The unique design of the 4510ND planar wave driver allows perfect acoustical coupling of individual units to create a virtually continuous line source. The driver contains a high energy neodymium magnet system and a unique annular ring diaphragm. The ring diaphragm works similar to a wound 140 mm long ribbon diaphragm providing a linear frequency response up to 20 kHz. The unique planar wave phase plug provides a coherent planar wave front without internal diffraction.





#### Features:

- Unique planar wave design (patent pending)
- Neodymium magnet assembly
- Perfect acoustical coupling of individual units to create a virtually continuous line source
- 112 dB sensitivity 1 W / 1 m
- 1 kHz crossover
- Extended high frequency response up to 20 kHz
- 8 or 16 Ohm

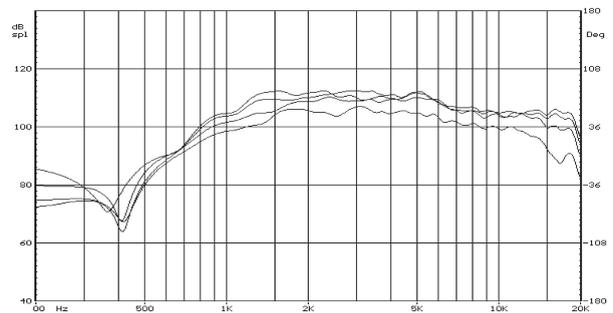
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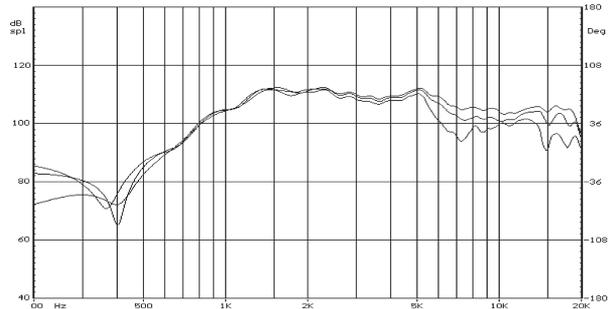
## SPECIFICATIONS

Throat diameter:	4" x 1" (101.6 x 25.4 mm)
	Rectangular piston
Nominal impedance:	8 or 16 Ohm
Power capacity (AES):	80 W
Peak power:	450 W
Sensitivity in:	
CD horn 120° x 10°:	114 dB 1 W / 1 m
Efficiency:	25% (1000-3500)
Max. SPL (cont.):	133 dB at 80 W
Frequency range:	500 - 20000 Hz
Recommended crossover:	1000 Hz
Voice coil diameter:	1.75" (44.4 mm)
Magnet material:	Neodymium
Flux density high-range:	2.2 Tesla
Voice coil material:	Copper clad Aluminum
	(2 layers inside and outside of the VC)
Voice coil former:	Kapton™
Diaphragm material:	Polyester
<b>MOUNTING INFORMATION</b>	
Overall dimensions:	122 x 85 x 106.6 mm
Net weight:	1.3 kg
4 x M5 holes, 90° on 101.6 mm, 4" diameter	

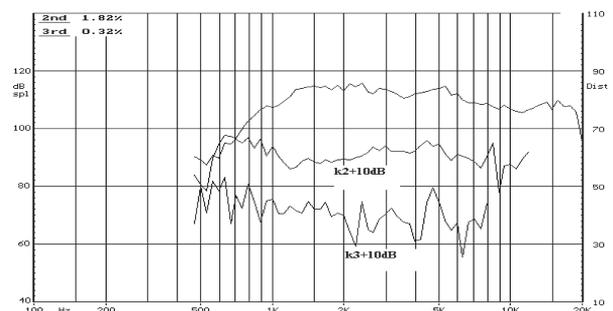
BMS 4510ND on small 90° x 10° horn, horizontal 0°, 15°, 30°, 45°



BMS 4510ND on small 90° x 10° horn, vertical 0°, 5°, 10°



BMS 4510ND on small 90° x 10° horn, 2nd + 3rd harmonic distortion



BMS 4510ND on small 90° x 10° horn, impedance

