

4512ND

4" Neodymium Planar Wave Driver

Neodymium planar wave driver



Features:

- Unique Planar Wave Design
- Cost effective, high efficiency Neodymium magnet assembly
- Perfect acoustical coupling of individual units to create 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

The BMS 4512ND 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 waveguides providing extremely high sensitivity.

The 4512ND is optimised for 10° vertical dispersion and allows a horizontal coverage from 60° to 120° depending on the waveguide used. The unique design of the 4512ND planar wave driver allows perfect acoustical coupling of individual units to create virtually continuous line source.

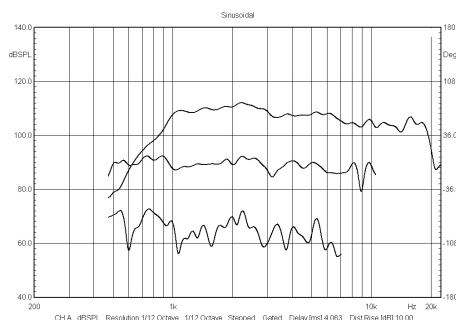
The BMS annular diaphragm together with the cost effective, high efficiency Neodymium magnet assembly offers an economical solution for high performance line arrays.

The ring diaphragm works similar as a wound 140 mm long ribbon diaphragm providing linear frequency response up to 20 kHz. The unique planar wave phase plug provides a coherent planar wave front without internal diffraction.

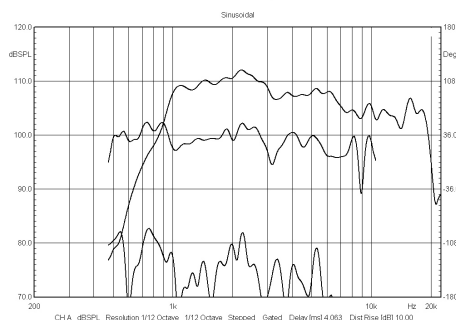
SPECIFICATIONS

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:	
CD Horn 120° x 10°:	112 dB 1 W / 1 m
Efficiency:	25%
max. SPL (cont.):	133 dB at 80 W
Frequency range:	500 - 20000 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 TM
Diaphragm Material:	Polyester
Mounting information	
Overall Dimensions:	107 x 85 x 119 mm
Net Weight:	0.87 kg
4 x M5 holes, 90° on 76.2 x 50.8 mm, (3" x 2")	

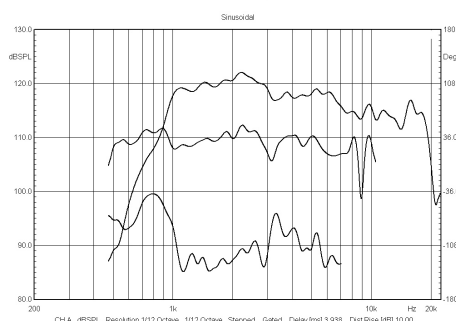
2nd + 3rd harmonic raised 20 dB, SPL 1W / 1m



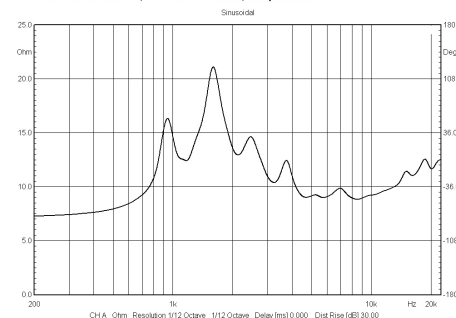
BMS4512ND-8, 90°x10° horn, 2nd + 3rd harmonic raised 20 dB, SPL 1W / 1m



BMS4512ND, 90°x10° horn, 2nd + 3rd harmonic raised 10 dB, SPL 10W / 1m



BMS4512ND-8, 90°x10° horn, Impedance



Neodymium compression drivers