4512ND

4" Neodymium planar wave driver

BMS

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

The BMS 4512ND Planar wave driver radiates a coherent planar wave front form 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 optimized 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"x1" (101.6x25.4 mm) rectangular piston
Nominal Impendance	8 or 16 Ohm
Power capacity (AES)	80W
Peak Power	450W
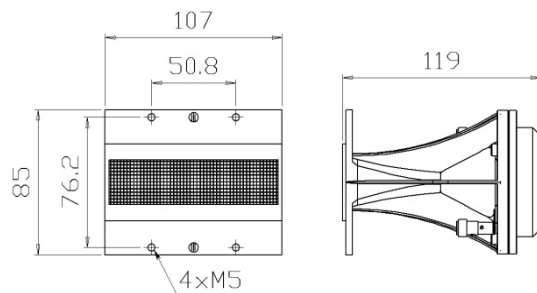
SENSITIVITY	
CD Horn 120°x10°	112 dB 1W/1m
Maximal SPL (cont.)	133 dB at 80 W
Frequency range	500-20000 Hz
Recommended crossover	1000 Hz
Voice coil diameter	1.75" (44.4 mm)
Magnet material	Neodymium
Flux density	2.2 Tesla
Voice coil material	Copper Clad Aluminium
Voice coil former	KaptonTM
Diaphragm material	Polyester

MOUNTING INFORMATION	
Overall diameter	107 x 85 x 119 mm
Net weight	0.870 kg
4xM5 holes, 90° on 76.2 x 50.8 mm (3" x 2")	