

4594ND

1,4" Coaxial Neodymium Compression Driver

1.4" Coaxial Compression Driver



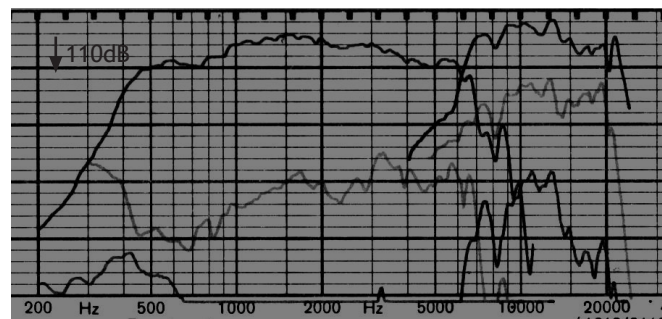
Features:

- Extended bandwidth (300 - 22000Hz)
- Neodymium magnet assembly
- With two subsystems in one, each driver covers a smaller frequency range for increased power handling, high dynamic and extremely low distortion
- Excellent phase coherence
- Perfect time alignment without problems of multi-source interference
- Ultra lightweight and small size

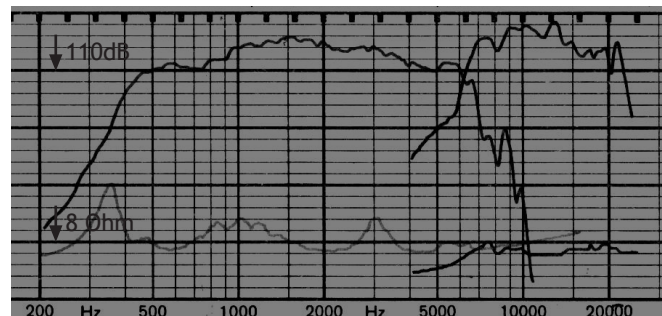
In a conventional full range compression driver the phase plug must be located extremely close to the diaphragm, excursion of the diaphragm is limited and middle frequency performance is compromised. A typical large diaphragm dome compression driver has a limited high frequency response. Over 8 kHz the dome diaphragm breaks up causing resonance and harsh, metallic sound. The patented design of the BMS 4594 is a result of extensive dedicated research and development providing dramatic improvement in dynamic response, clarity

The BMS annular midrange diaphragm covers the frequency range between 300 and 7.000 Hz with a smooth, linear response. The large diaphragm excursion of max. +/-0,8 mm results in high output and increased power handling up to

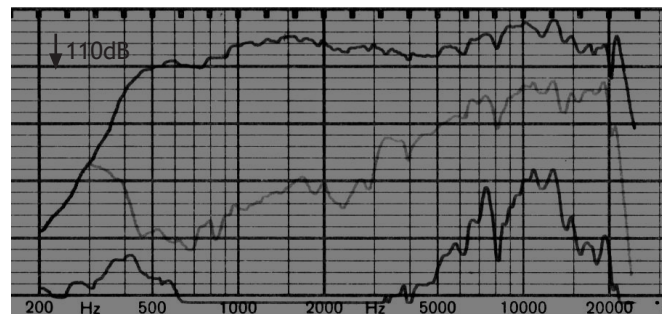
BMS 4594-8, 60° x 40° Horn, 2nd + 3rd harmonic distortion raised 10dB., SPL 1W / 1m



BMS 4594-8, 60° x 40° Horn, SPL 1W / 1m



BMS 4594-8, incl. passive crossover, 2nd + 3rd harmonic distortion raised 10dB., SPL 1W / 1m



SPECIFICATIONS

Throat diameter	1.4" (36 mm)
Nominal impedance	8 or 16 Ohm
Power capacity	
Middle range (AES)	150 W RMS above 400 Hz
peak	1000 W peak above 500 Hz
High range (AES)	80 W
peak	320 W
Sensitivity 1W/1m	118 dB on 40° x 20° Horn
Frequency range (Hz)	200 - 22000 Hz
Recommended crossover	300 Hz
Middle frequency range	300 - 7000 Hz
High frequency range	6000 - 22000 Hz
Middle/High crossover	6300Hz
Voice coil high-range	1.75" (44.4 mm)
Voice coil mid-range	3.5" (90 mm)
Magnet material	Neodymium
Flux density (Tesla)	2.2
Efficiency	35% (300 - 5000 Hz)
Voice coil material	Copper Clad Aluminium (2Layers in- and outside of the VC)
Voice coil former	Kapton™
Diaphragm material	Polyester
Mounting information	
Overall Diameter	132 mm (+/- 3 mm)
Depth	94 mm
Net weight	2.63 kg
4x M6 holes, 90° on 101.6 mm, 4" diameter	

Neodymium Compression Drivers