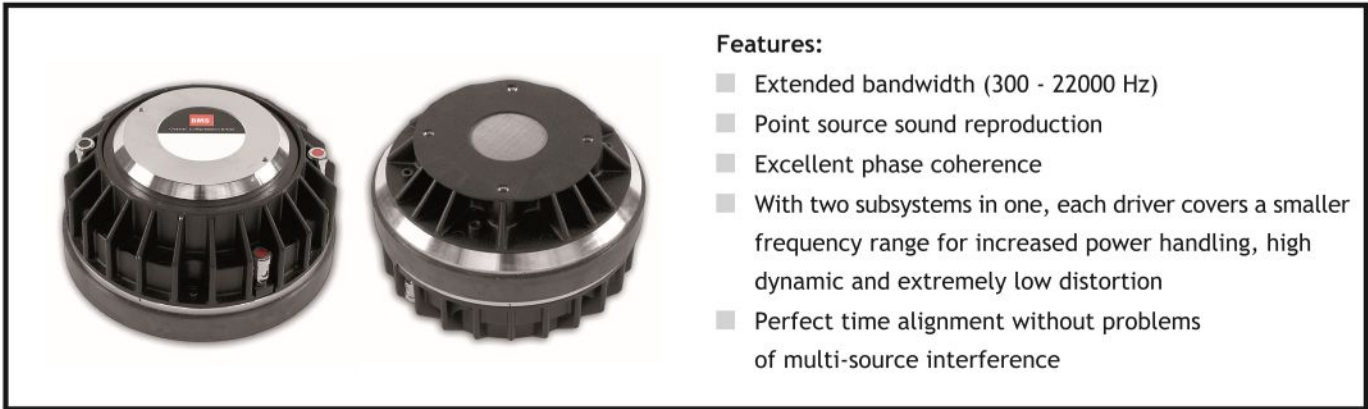


4590 / 4590P

2" Coaxial compression driver

2" Coaxial Compression Drivers



Features:

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

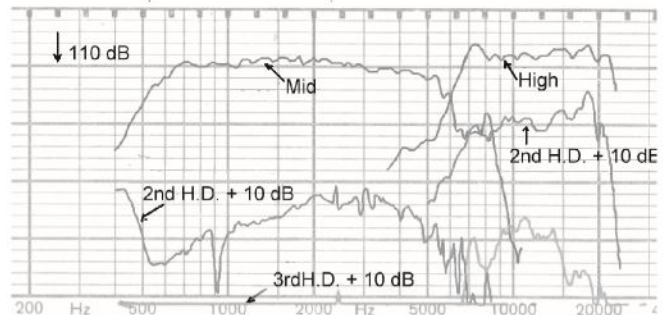
In a conventional full range compression driver the phase plug must be located extremely close to the diaphragm, excursion of the diaphragm is limited and middle frequency performance is compromised. A typical 2" dome compression driver has a limited high frequency response. Over 8 kHz the dome diaphragm breaks up causing resonance and harsh, metallic sound.

The BMS annular midrange diaphragm covers the frequency range between 400 and 7000 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 1300 W peak. The ultra light annular diaphragm for the high range offers exceptional transient response with very high efficiency from 6 to 22 kHz.

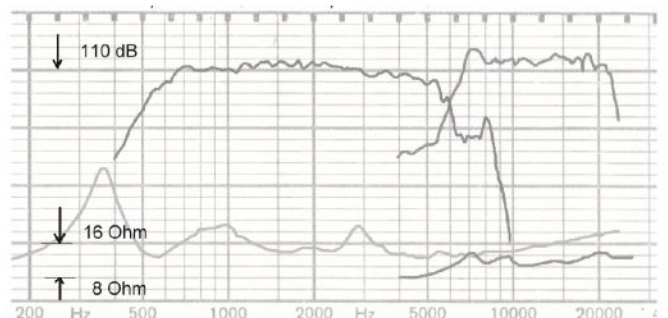
SPECIFICATIONS

Throat diameter	2" (50.8 mm)
Nominal impedance	8 or 16 Ohm
Power capacity	
Middle range (AES)	150 W AES above 400 Hz
peak	1000 W peak above 500 Hz
High range (AES)	80 W
peak	450 W
Sensitivity 1W/1m	118 dB on 2242 Horn
Frequency range (Hz)	300 - 22000
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	Ferrite
Flux density (Tesla)	1.95 (mid), 2.1 (high)
Efficiency	35% (300 - 5000 Hz)
Voice coil material	Copper Clad Aluminum (2Layers in and outside of the VC)
Voice coil former	Kapton™
Diaphragm material	Polyester
Mounting information	
Overall Diameter	182 mm (+/- 3 mm)
Depth	129 mm
Net weight	9 kg
4x M6 holes, 90° on	101.6 mm, 4" diameter

BMS4590, 90°x60° Horn, 1W/1m, 4V RMS



BMS4590, 90°x60° Horn, 1W/1m, 4V RMS



BMS 4590P, including passive crossover, SPL 1W / 1m

