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GM-1575CCD

CINEMA LOUDSPEAKER SYSTEM

FEATURES:

HF- BMS4590P

- 118 dB SPL 1W / 1m sensitivity
- 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

LF - 15W750 (*2)

- 100 dB SPL 1W / 1m average sensitivity
- 75 mm (3 in) Interleaved Sandwich Voice coil (ISV)
- 2400 W program power handling
- Long excursion, linear travel suspension design
- Weather protected cone and plates for outdoor usage
- Generous low frequency output make it suitable for 2-way systems and subwoofer applications



HF- BMS4590P

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.

LF - 15W750

The 15W750 low frequency transducer meets the specific market demand for a loudspeaker which combines good linearity and efficiency with high power handling capabilities, containing a 75 mm Ø aluminum voice coil. Although primarily intended for use in tuned reflex enclosures, the versatile characteristics of the 15W750 render it suitable for a wide variety of enclosure types, particularly as a subwoofer or as a LF driver in 2 systems. When used in a 2-way system, we recommend a 1.4" or 2" exit compression driver in order to obtain the best sound

quality. The deep profile curvilinear paper cone has been made using a special high strength wood pulp and designed to achieve the best possible linearity within its intended frequency range and to control bell-mode resonances around the cone circumference. The cone is carried by an unusually deep profile, triple-roll suspension formed of a linen-like material which is more resistant to aging and fatigue than the traditional cotton-based materials used in conventional surrounds. The 75 mm Ø aluminum voice coil employs the Interleaved Sandwich Voice coil (ISV) technology, in which a high strength fiberglass former carries windings on both the outer and inner surfaces to achieve a mass balanced coil. This results in an extremely linear motor assembly with a reduced tendency for eccentric behavior when driven hard. The magnetic structure has been optimized using our in-house FEA CAD resource that has maximized the flux density in the voice coil gap. Excellent heat dissipation has also been achieved by incorporating air channels between the basket and the magnetic top plate. Due to the increase in use of audio systems at outdoor events, the ability of the 15W750 to perform in adverse weather conditions or in areas of high humidity is a great advantage. This has been achieved using exclusive treatments which enable the cone and the magnetic plate to resist corrosion and render the cone water repellent at the same time.



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SPECIFICATIONS

LF - 15W750 (*2)

Nominal Diameter each	380 mm
Nominal Impedance each	8 Ω
Minimum Impedance each	6.1 Ω
Nominal Power Handling	1200 W
Continuous Power Handling	2400 W
Sensitivity	100.0 dB
Frequency Range	50 - 4300 Hz
Voice Coil Diameter	75 mm (3.0 in)
Magnet Material	Ferrite
Surround Shape	Triple roll
Cone Shape	Curvilinear

COVERAGE

55° top horizontal, 100° bottom horizontal, 50° vertical

ENCLOSURE

LF - Ported enclosure with symmetrical port design, tuned to 40 Hz, constructed of MDF and heavily braced

HF - Tilt/Pan Horn (Fiberglass)

Bracket 20 to +10° vertical tilt $\pm$ 15° horizontal pan

Total Weight - 75 Kg

HF- BMS4590P

Throat Diameter	50.8 mm
Nominal Impedance	8 Ω
Middle range	150W AES
Mid - Peak	1000W
High Range	80W
High - Peak	452W
Sensitivity	118 dB
Frequency Range	300 - 22000 Hz
Crossover	500Hz
H - Voice Coil Diameter	44.4 mm (1.75 in)
M - Voice Coil Diameter	90 mm (3.5 in)
Magnet Material	Ferrite
Voice coil former	Kapton
Diphragm material	Polyester

TECHNICAL DRAWING

