

M5N

M5N Bass-Midrange



Overview

Incorporated into the Diva line of loudspeakers manufactured by Swans the M5N earned the Exceptional Value Award at The Home Entertainment Show 2000.

In 1999, Swans manufactured M5N woofer with original and beautiful appearance, which is suitable for digital audio and sound signal linear loudspeaker system, which is dynamic and with low distortion. This design has laid another landmark of Swans loudspeaker.

Advanced alloy (magnesium/aluminum) cone, coated with special damping material, having good rigidity and dynamic stability, improving the sonic features of the driver; High power handling, heat-resistant Kapton[®] voice coil former and heat-resistant SV voice coil wire; Finite Element Analysis for shielded magnetic system with long-throw linear excursion design.

Hi-Vi Symmetric Motor Drive (SMD) technology makes the voice coil into a symmetrical driving magnetic field, thus acquiring symmetrical driving force, reducing voice coil inductance and back electromotive force modulation,

improving the controllability of the speakers; Low distortion degree.

Finite Element Analysis for flat & rigid iron frame, prevent the parasitic structural resonances.

Using leading technology of Small/Thiele parameters

M5N can be used as a bass or midrange in a two-way bookshelf speaker system; or used as a main speaker, center channel speaker, surround speaker, or subwoofer in a home theatre system; it can also be used in multimedia speaker systems.

Specifications

General Data	
Nominal Power Handling (P _{nom})(W)	35
Max Power Handling (P _{max})(W)	70
Sensitivity (2.83v/1m)(dB)	87
Weight (M)(Kg)	1.5
Electrical Data	
Nominal Impedance (Z)(Ω)	8
DC (R _e)(Ω)	6.5
Voice Coil and Magnet Parameters	
VC Diameter (mm)	25
VC Length (H)(mm)	10.4
VC Former	SV
VC Frame	Kapton
Magnet System	Shielded
Magnet Former	Ferrite
Force Factor (BL)(N/A)	7.5
Gap Height (H _e)(mm)	5
Linear Excursion (X _{max})(mm)	2.7
T-S Parameters	
Suspension Compliance (C _{ms})(μM/N)	1051
Mechanical Q (Q _{ms})	6.51
Electrical Q (Q _{es})	0.37
Total Q (Q _{ts})	0.35
Moving Mass (M _{ms})(g)	10.7
Effective Piston Area (S _d)(m ²)	0.0087
Equivalent Air Volume (V _{as})(L)	11.3
Resonance Frequency (F _s)(Hz)	50



