

Full Range-Limited

FE108SS-HP

10cm full range



Limited quantity sale

FE108SS-HP

The FE108SS-HP is a limited-edition full-range speaker unit that has been newly developed by making full use of the development philosophy and original technology that are devoted to the basics of acoustics. The HP-shaped diaphragm with a strong low-distortion external magnetic circuit with two large ferrite layers and a proprietary cellulose / nanofiber mixed layer has a rich low range and low coloration, and has a straightforward mid-high range sound quality and is powerful and delicate. Realizes the reproduction of expressive music.

standard price

¥ 27,500 (tax included) / 1 unit

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Features

● Cellulose Nanofiber Coating HP Shape Vibrating Plate

Cellulose Nanofiber Coating, which is our proprietary technology, forms a coating layer consisting of cellulose nanofiber and mica on the surface of the base layer, and has Young's modulus and relative bending rigidity. It has the feature that the decrease of internal loss is suppressed while improving the sound velocity. The HP (Hyperbolic Paraboloid) -shaped diaphragm that has undergone this treatment is lightweight, ensuring rigidity and achieving a high degree of resonance dispersion. You can enjoy listening to music with a fast and sharp low range that seems to be a full-range speaker, a full mid-low range, a bright and straightforward mid-range, a naturally-sounding mid-high range, and a fully extended high range.

● Large-sized ferrite magnetic circuit

Two large-sized ferrite magnets are used in the magnetic circuit to ensure sufficient magnetic flux density. A copper cap has been added to the pole to reduce current distortion, achieving powerful music playback and improved sound quality in the mid-high range.

● High-rigidity aluminum die-cast frame A high-rigidity aluminum die-cast frame

is used to support a large ferrite magnetic circuit and eliminate unnecessary resonance.

● UDRT (Up-Down Roll Tangential) shape is adopted for the UDRT damper / edge damper and the edge with excellent amplitude response

. Since this shape is composed of various surfaces, the overall shape rigidity is improved and the resonance moves to a high frequency and is dispersed, so that the generation of a specific large peak can be suppressed and smooth characteristics can be obtained.

● Eyeletless structure

A direct lead that pulls out the tinsel wire from the voice coil without hitting the eyelet is adopted on the diaphragm, and the vibration system mass is reduced and the vibration of the diaphragm is leveled. Moreover, the pull-out position of the direct lead is set as the pull-out position in the rotation direction from the 180 degree position in consideration of the symmetry of the mass distribution.

● Faston 205 gold-plated terminal

A Faston 205 type low-loss gold-plated terminal is used for the input terminal. Securely join the speaker cable and prevent deterioration of sound quality.

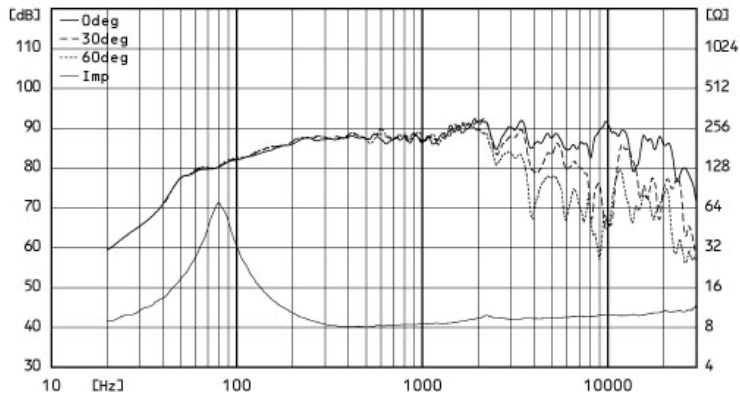


specification

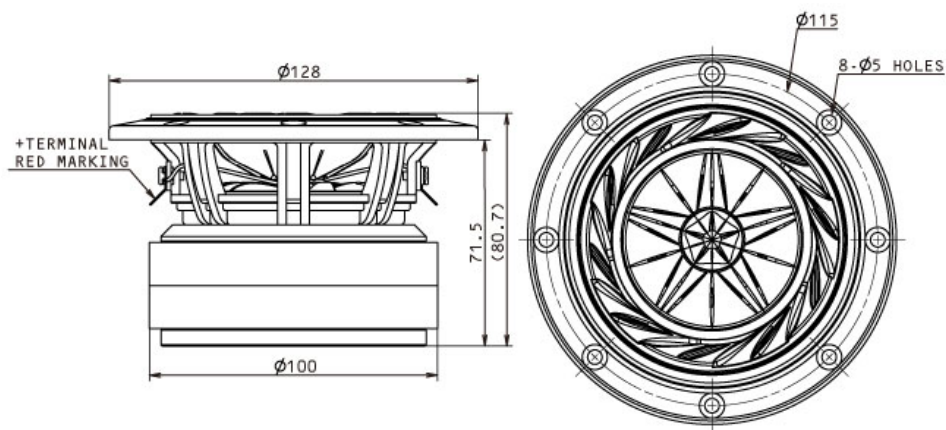
Main Specifications

Electrical Parameters	
Nominal Impedance	8.0 ohm
Re	7.3 ohm
Le	0.07 mH
fs (F0)	81 Hz
Mechanical Parameters	
Mms (M0)	3.2 g
Cms	1.21 mm / N
Bl	5.27 N / A
Loss Factors	
Qms	4.13
Qes	0.43
Qts (Q0)	0.39
Other Parameters	
SPL (1m / 1W)	88 dB
Equivalent Diaphragm Radius (a)	40 mm
Rated Input	15 W
Overall Diameter	Ø 128 mm
Voice Coil Diameter	20 mm
Reproduction Frequency Response	fs to 28k Hz
Vas	4.31 L
Baffle Hole Diameter	Ø 102 mm
Weight	1830g

Frequency characteristic



External dimensions



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Product materials

You can download various product materials.
Acrobat Reader is required to view the PDF file.

* December 27, 2021: There was an error in the frequency characteristic diagram of the Specification Sheet, so we have corrected it.

▼ Specification & Application Sheet

Product specifications



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FE168SS-HP



FE103A

