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Eighteensound 12LW800 - Zvučnik



Šifra: 09899
Kategorija prozivoda: 12 Inča
Proizvođač: Eighteensound

Cena: 23.880,00 rsd

Ferrite LF-MB-MF Transducers Extended Low Frequency Transducer

Key Features

96 dB SPL 1W / 1m average sensitivity
75 mm (3 in) Interleaved Sandwich Voice coil (ISV)
500 W AES power handling
Double Silicon Spider (DSS) for improved control and linearity
Improved heat dissipation via unique basket design
Weather protected cone and plates for outdoor usage Ideal for compact reflex subwo

Description

The 12LW800 is a low frequency loudspeaker which sets a new industry standard in 12" (300mm) Ø high performance transducers, achieving a remarkable 42Hz downwards extension with 96dB average sensitivity, handling peak power levels of 4000W with remarkably low distortion and excellent transient response.
The 12LW800 is intended as the low bass or sub-woofer component, either in highly compact reflex, bandpass or horn loaded configurations, to provide clean, linear frequency reproduction at high power levels, or as part of a compact high power fullrange system. In its reflex configuration it can be used in extremely compact enclosures (40 - 70lt) making it ideally suited to portable applications such as road shows and bass musical instruments, for “wedge” stage monitors, etc.
The high excursion capabilities of the double-action roll surround and suspension system, in conjunction with the Eighteen Sound Double Silicon Spider (DSS), has enabled the 12LW800 to achieve very high levels of linear travel for a 12" unit.
The carbon fibre reinforced curvilinear ribbed cone, with its custom design surround, assures smooth response and exceptional strength with maximum reliability under high mechanical stress.
The 75mm Ø state-of-the-art voice coil is similar to that fitted to our 18LW1400 top-of-the-range model. It employs our Interleaved Sandwich Voice coil (ISV) in which a high strength fiberglas former carries windings on both the outer and inner surfaces to achieve a mass balanced coil and providing a uniform motive drive. This, in conjunction with the use of unique high temperature resin adhesives, results in an extremely linear motor assembly with reduced tendency to break-up under high drive conditions.
Excellent heat dissipation is achieved by the incorporation of air channels between the basket and top plate.
Maximum flux concentration and force factor in the gap is assured by the unique shape and design of the face and back plates, these having been researched and designed using our in-house Magnetic Flux FEA CAD resource.
With the increasing use of high power audio systems at outdoor events or in a marine environment, the ability to perform properly under inclement weather conditions is another part of the Eighteen Sound

philosophy. This is achieved by means of an exclusive cone treatment improving pulp strength and giving water repellent properties to the
cone. In addition, special treatment of both the face and back plates results in a product which is far more resistant to the corrosive effects of salts and oxidisation than any other treatment in use.

General Specifications

Nominal Diameter	300 mm (12 in)
Rated Impedance	8 Ohm
AES Power	500 W
Program Power	800 W
Peak Power	4000 W
Sensitivity	96 dB
Frequency Range	46 ÷ 4200 Hz
Power Compression @-10dB	0,9 dB
Power Compression @-3dB	2,6 dB
Power Compression @Full Power	4 dB
Max Recomm. Frequency	1300 Hz
Recomm. Enclosure Volume	40 ÷ 100 lt. (1,41 ÷ 3,53 cuft)
Max Peak To Peak Excursion	34 mm (1,34 in)
Voice Coil Diameter	75 mm (2,95 in)
Voice Coil Winding Material	copper
Suspension	Single roll, rubber
Cone	Curvilinear ribbed, Paper

Thiele Small Parameters

Fs	52 Hz
Re	5,6 Ohm
Sd	0,0531 sq.mt. (82,31 sq.in.)
Qms	7,6
Qes	0,3
Qts	0,29
Vas	48 lt. (1,70 cuft)
Mms	76,5 gr. (0,17 lb)
BL	21,3 Tm
Linear Mathematical Xmax	± 6,5 mm (± 0,26 in)
Le (1kHz)	1,72 mH
Ref. Efficiency 1W@1m (half space)	95,5 dB

Mounting information

Overall diameter	315 mm (12,4 in)

N. of mounting holes and bolt	8
Mounting holes diameter	7,15 mm (0,28 in)
Bolt circle diameter	296 - 300 mm (11,65 - 11,8 in)
Front mount baffle cutout ø	282 mm (11,1 in)
Rear mount baffle cutout ø	282 mm
Total depth	151 mm (5,94 in)
Flange and gasket thickness	20 mm (0,79 in)
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Net weight	8,1 kg (17,88 lb)
Shipping weight	8,9 kg (19,65 lb)
CardBoard Packaging dimensions	332 x 332 x 184 mm (13,07 x 13,07 x 7,24 in)

Cene su informativnog karaktera. Prodavac ne odgovara za tačnost cena iskazanih na sajtu, zadržava pravo izmena cena. Ponudu za ostale artikle, informacije o stanju lagera i aktuelnim cenama možete dobiti na upit. Plaćanje se isključivo vrši virmanski - bezgotovinski.