

Eighteensound HD1030 - Visokotonac

Compression Driver 8 Ohm

- 1 inch exit throat
- 106 dB SPL 1W / 1m average sensitivity
- 34,4 mm (1 1/3 inch) voice coil diameter
- 60 Watt program power handling
- Titanium diaphragm
- Proprietary phase plug design
- Usable in two way or multiway systems

The HD1030 1 inch exit high frequency compression driver has been designed for use in two-way audio

systems.

The transducer exhibits a constant slope response from 1.5kHz to 18kHz with a uniform and smooth roll-off. With a 800 Hz free air resonance frequency, the HD1030 can easily be cut-off at 1800Hz and is capable of 60W continuous power handling with a 1800Hz pink-noise signal, and a 6dB crest factor with a minimum 12dB/oct crossover slope.

Equipped with unique Phase Plug architecture, the HD1030 has been designed to give a smooth coherent wavefront at the horn entrance in the whole working frequency range, as well as high level manufacturing consistency. The phase plug with its short openings and high flare rate value assures low distortion and demonstrates remarkable improvements in mid-high frequency reproduction.

The titanium diaphragm assembly, with its ellipsoidal suspension shape, exhibits a constant slope response from 1.5kHz up to 18kHz with uniform smooth roll-off behavior. An edge-wound aluminum voice coil, wound on proprietary treated Nomex, completes the diaphragm assembly. Nomex shows a 30% higher value of tensile elongation at a working operative temperature (200°C) when compared to Kapton. This feature enables proper energy transfer control from the voice coil to the dome in real working conditions. Moreover, this proprietary former material is also suitable for use in higher moisture content environments.

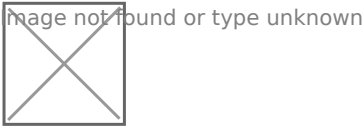
The HD1030 powerful ceramic magnet assembly has been designed to obtain 15 KGauss in the gap within a compact ferrite motor structure.

GENERAL SPECIFICATIONS	
Throat Diameter	25,4 mm (1 in)
Rated Impedance	8 ohm
DC Resistance	5,8 Ohm
Minimum Impedance	6,5 Ohm at 5000Hz
Le (at 1kHz)	54 µH
AES power	30 W above 2 kHz
Program power	60 W above 2 kHz
Sensitivity(1W@1m)	106 dB
Frequency Range	1800Hz ÷ 20kHz
Recomm. Xover Frequency	1800Hz
Diaphragm Material	Titanium
Voice Coil Diameter	34,4 mm (1 1/3 in)
Voice Coil Winding Material	Edge-wound aluminum

Magnet Material	Ferrite
Flux Density	1,5 T
BL Factor	5 N/A
Polarity	Positive voltage on red terminal gives positive pressure in the throat

MOUNTING INFORMATION	
Overall diameter	91 mm (3.6 in)
Mounting holes diameter	4 M5 holes on Ø 76 mm (3 in)
Bolt circle diameter	76 mm (3 in)
Total depth	51 mm (2 in)
Net weight	1 kg (2.18 lb)
Shipping weight	1.2 Kg (2.61 lb)
CardBoard Packaging dimensions	97x97x58 mm (3,8x3,8x2,3 in)

HD1030 MEASURED WITH 1W INPUT ON RATED IMPEDANCE AT 1M DISTANCE ON XT1086 HORN MOUTH AXIS



FREE AIR IMPEDANCE MAGNITUDE CURVE

