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ENGHTEEN SOUND HD1040

# **EIGHTEEN SOUND HD1040**

Šifra: 4882

Kategorija prozivoda: Ugradbeni zvučnici

Proizvođač: 18 Sound

Cena: **91,00** EUR

### **HF Compression Driver 8 Ohm**

· 1 inch exit throat

- $\cdot$  107 dB SPL 1W / 1m average sensitivity
- · 44mm (1 3/4 inch) voice coil diameter
- · 80 Watt program power handling
- · Treated polyethylene diaphragm
- · Proprietary phase plug design

The HD1040 one inch exit high frequency compression driver has been designed for use in high quality audio systems.

Equipped with proprietary Phase Plug architecture, the HD1040 has been designed to give high level manufacturing consistency and smooth coherent wave front at the horn entrance across the whole working frequency range. 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 HD1040 diaphragm assembly is made by proprietary treated Polyethylene material. Thanks to its superior diaphragm dimensional stability (160°C), the polyethilene shows constant behaviour during its whole working life. Moreover, this particular material with its very high value of elasticity modulus, (50% more than standard Mylar and 100% more than polyimide film) is capable of superior transient and intermodulation distortion response. The flat suspension shape is designed to maintain low stiffness and low mid band distortion and response.

An edge-wound aluminum voice coil wound on proprietary treated Nomex completes the diaphragm assembly. Thanks to its physical properties, the proprietary treated Nomex former 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 suitable for use in damp and wet environments.

The HD1040 powerful ceramic magnet assembly has been designed to obtain 16 KGauss in the gap within a compact ferrite motor structure.

## **GENERAL SPECIFICATIONS**

Throat Diameter Rated Impedance DC Resistance Minimum Impedance AES power

Program power
Sensitivity(1W@1m)
Frequency Range

Recomm. Xover Frequency

Diaphragm Material

25,4 mm (1 in)

8 ohm 5,3 Ohm

7 Ohm at 4000Hz 40 W above 1,6 kHz 80 W above 1,6 kHz

107 dB

 $1600Hz \div 20kHz$ 

1600Hz (12dB/oct slope) Treated polyethylene Voice Coil Diameter Voice Coil Winding Material Magnet Material Flux Density BL Factor

**Polarity** 

**MOUNTING INFORMATIONS** 

Overall diameter
Mounting holes diameter
Bolt circle diameter
Total depth
Net weight

CardBoard Packaging dimensions

44,4mm (1 3/4 in) Edge-wound aluminum Ferrite

1,6 T 7,4 N/A

Positive voltage on + terminal gives positive pressure in the throat

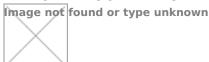
110 mm (4,3 in)

4 M6 holes 90° at Ø 76 mm (3 in)

76 mm (3 in) 60,5 mm (2,38 in) 1,8 Kg (4 lb) 1,9 Kg (4,22 lb)

110x110x63 mm (4,3x4,3x2,5 in)

# HD1040 MEASURED WITH 1W INPUT ON RATED IMPEDANCE AT 1M DISTANCE ON XT1086 HORN MOUTH AXIS



Shipping weight

#### FREE AIR IMPEDANCE MAGNITUDE CURVE

