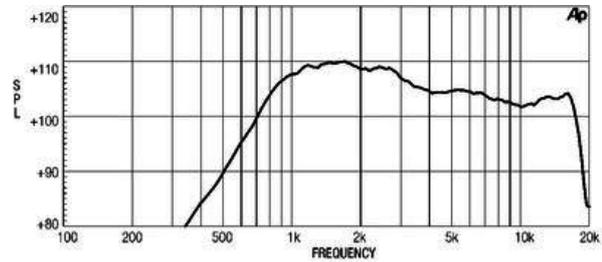
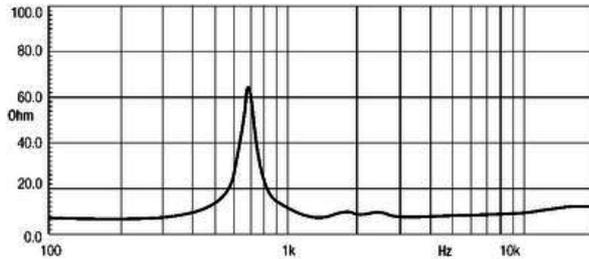


- 1 inch exit throat
- 107 dB SPL 1W/ 1m average sensitivity
- 44mm (1 3/4 inch) voice coil diameter
- 80 Watt program power handling
- Treated polyethylene diaphragm
- Proprietary phase plug design
- 16ohm version available

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 polyethylene 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.



### SPECIFICATIONS<sup>1</sup>

Throat Diameter	25 mm (1.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.0 Ω
Nominal Power Handling <sup>2</sup>	40 W
Continuous Power Handling <sup>3</sup>	80 W
Sensitivity <sup>4</sup>	107.0 dB
Frequency Range	1.6 - 20.0 kHz
Recommended Crossover <sup>5</sup>	1.6 kHz
Voice Coil Diameter	44 mm (1.75 in)
Winding Material	Aluminum
Diaphragm Material	Treated polyethylene
Flux Density	1.6 T
Magnet Material	Ferrite

### MOUNTING AND SHIPPING INFO

Overall Diameter	110 mm (4.33 in)
Depth	60 mm (2.36 in)
Net Weight	1.6 kg (3.53 lb)
Shipping Weight	1.7 kg (3.75 lb)
Shipping Box	110x110x63 mm (4.33x4.33x2.48 in)

1. Driver mounted on Eighteen Sound XR1064 horn
2. 2 hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated nominal impedance.
3. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
4. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
5. 12 dB/oct. or higher slope high-pass filter.