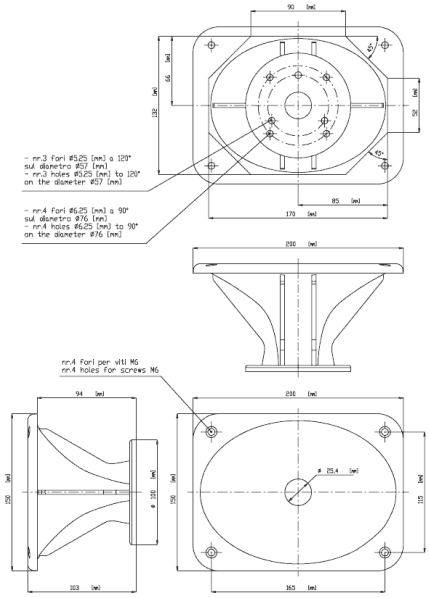
XT120

Constant Coverage HF Horn

KeyFeatures

- 1 inch entry
- Unique Eighteen Sound elliptical shape (ESS)
- Flat front and compact size
- Injiection moulded polyurethane construction
- Uniform on-axis and off-axis frequency response
- 90° x 60° horizontal and vertical constant coverage



Description

Featuring the unique Eighteen Sound elliptical shape, the XT120 Constant Coverage High Frequency Horn has been designed for use in sound systems where top quality is required. With a 1" throat entry diameter, the XT120 has been designed to match the Eighteen Sound 1 inch exit high frequency compression drivers family. The XT120 maintains nominal 90° Horizontal x 60° Vertical pattern control, providing constant on-axis and off-axis frequency response from 2kHz to 16kHz in the horizontal plane and from 2.5kHz to 16kHz in the vertical plane. The XT120 smooth flare rate provides constant directivity from 2.5kHz, low distortion and a spherical wave front, avoiding the typical reflections usually associated with diffraction horns. The XT120 is made from high pressure injection moulded polyurethane foam and has been designed to be free of resonance and vibrations in order to assure maximum strength. Computer Aided Finite Element Analysis, as well as extensive testing were used to obtain the horn contours.

Models

Model	Code	Info
042108XT10	042108XT10	

XT120

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General Specifications

Throat Diameter	25,4 mm (1 in)
Horizontal Coverage -6db	90° (1 - -10) average range (2kHz - 12,5kHz)
Vertical Coverage -6db	60° (15 - -10) average range (2kHz - 12,5kHz)
Directivity Index	15 dB (2,5 - 1,5)
Usable Frequency Range	Above 1.5 kHz
Recomm. Xover Frequency	2 kHz or more
Sensitivity	108 dB
Frequency Range	2kHz - 18kHz
Material	Injection moulded Polyurethane

Mounting information

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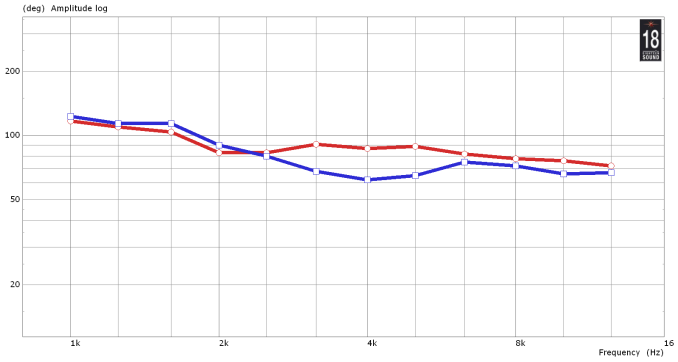
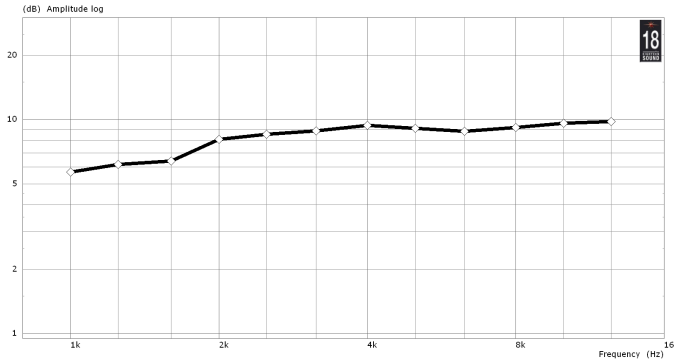
Notes

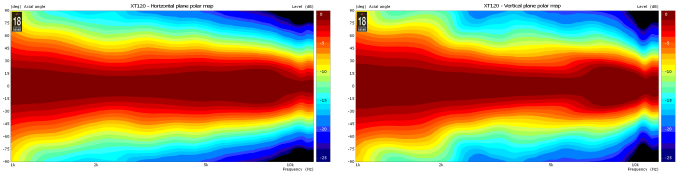
1) Sensitivity is measured at 1W input on HD125 rated impedance at 1m on axis from the mouth of the horn, averaged between 1KHz and 4 KHz.



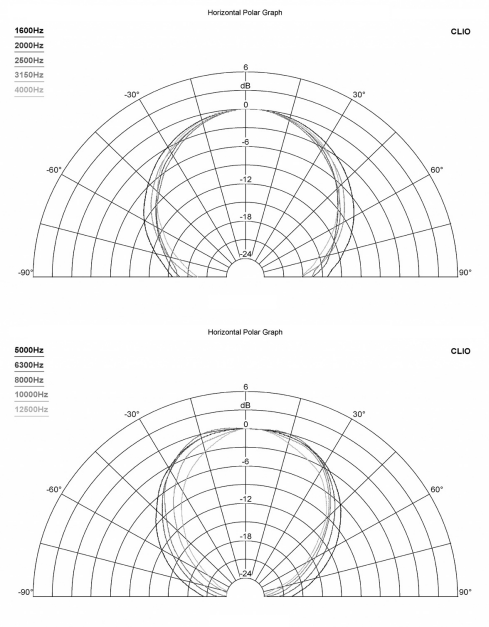
HORIZONTAL BEAMWIDTH - RED PLOT - A



DIRECTIVITY INDEX - B Horizontal and Vertical Polar Directivity Map



HORIZONTAL 1/3 OCTAVE POLAR PLOTS



VERTICAL 1/3 OCTAVE POLAR PLOTS