

XR1496C

Constant Coverage HF Horn

KeyFeatures

- 1.4 throat inch entry
- High damping composite structure
- Uniform on-axis and off-axis frequency response
- 90° x 60° horizontal and vertical constant coverage
- Very low distortion at high sound pressure
- Optimized weight thanks to composite material structure

Description

The XR1496C has been designed in order to obtain a smooth frequency response maintaining constant coverage and directivity pattern, and avoiding the midrange narrowing effect as well as high frequency beaming problems.

With a throat entry of 1.4 inch, the XR1496C has been developed to reach the optimum performance when it will be coupled with 1.4 inch exit Eighteen Sound high frequency compression drivers.

The XR1496C maintains nominal 90° Horizontal x 60° Vertical pattern control, providing consistent on-axis and off-axis frequency response from 1,2kHz to 16kHz in both horizontal and vertical planes.

Horn directivity is constant down to 1,2kHz.

Models

Model	Code	Information
XR1496C	0421496C00	

General Specifications

Throat Diameter	35,5 mm (1,4 in)
Horizontal Coverage (-6dB)	90° (15 ÷ -10) average range (1,25kHz - 12,5kHz)
Vertical Coverage (-6 dB)	60° (18 ÷ -12) average range (1,25kHz - 12,5kHz)
Directivity Index	9dB (1,8 ÷ -1,2) average range (1,25kHz - 12,5kHz)
Usable Frequency Range	Above 800 Hz
Recomm. Cross.Frequency	800 Hz or more
Sensitivity	110 dB
Frequency Range	800 Hz - 18KHz
Material	Composite material

HORIZONTAL BEAMWIDTH - RED PLOT - VERTICAL BEAMWIDTH - BLUE PLOT - A

DIRECTIVITY INDEX - B

Horizontal and Vertical Polar Directivity Map

Thiele Small Parameters

Mounting information

Mouth Height	270 mm (10,6 in)
Mouth Width	270 mm (10,6 in)
Depth	180 mm (7,1 in)
Mouth Mounting Dimensions	8 ø 6 holes
Net weight	1,4 Kg (3.09 lb)

Notes

1) Sensitivity is measured at 1W input on ND1480 rated impedance at 1m on axis from the mouth of the horn, averaged between 1kHz and 4 kHz.

HORIZONTAL 1/3 OCTAVE POLAR PLOTS

VERTICAL 1/3 OCTAVE POLAR PLOTS