

XR2064C

Constant Coverage HF Horn

KeyFeatures

- 2 inch throat entry
- High damping composite structure
- Uniform on-axis and off-axis frequency response
- 60° x 40° horizontal and vertical constant coverage
- Very low distortion at high sound pressure
- Optimized weight thanks to composite material structure

Description

The XR2064C is a constant directivity 2 inch horn. The XR2064C has been developed to reach the optimum performance when coupled to 2 inch exit Eighteen Sound high frequency compression drivers.

All XR series horns have been designed in order to reach smooth driver frequency response, to maintain constant coverage and directivity and eliminating the midrange narrowing and high frequency beaming problems common of many similar horns on the market.

The XR2064C horn maintains nominal 60° Horizontal x 40° Vertical pattern control. It provides 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
XR2064C	0422064C00	

General Specifications

Throat Diameter	50 mm (2 in)
Horizontal Coverage (-6dB)	60° (10 ÷ -6) average range (1,6kHz - 12,5kHz)
Vertical Coverage (-6 dB)	40° (30 ÷ 0) average range (1,6kHz - 12,5kHz)
Directivity Index	11 dB (1.8 ÷ - 2.6) average range (1,6kHz - 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

Thiele Small Parameters

Mounting information

Mouth Height	270 mm (10,6 in)
Mouth Width	270 mm (10,6 in)
Depth	200 mm (7,9 in)
Mouth Mounting Dimensions	8 ø 6 holes
Net weight	1.8 Kg (3.97 lb)

Notes

1) Sensitivity is measured at 1W input on ND2080 rated impedance at 1m on axis from the mouth of the horn, averaged between 1kHz and 4 kHz.

HORIZONTAL 1/3 OCTAVE POLAR PLOTS

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

DIRECTIVITY INDEX - B

Horizontal and Vertical Polar Directivity Map

VERTICAL 1/3 OCTAVE POLAR PLOTS