



# CF1840JD

Ferrite magnet cast aluminium chassis driver

## General Specifications

Nominal diameter	457mm/18in
Power rating <sup>1</sup>	1000Wrms
Nominal impedance	8Ω
Sensitivity <sup>2</sup>	98dB
Frequency range	30-2500Hz
Voice coil diameter	100mm/4in
Chassis type	Cast aluminium
Magnet type	Ferrite
Magnet weight	3.18kg/112oz
Coil material	Round copper
Former material	Glass fibre
Cone material	Kevlar loaded paper
Surround material	Cloth-sealed
Suspension	Double
Xmax <sup>3</sup>	10mm/0.39in
Gap depth	10mm/0.39in
Voice coil winding width	30mm/1.18in

## Small Signal Parameters

D	0.21m
Fs	44.2Hz
Mms	215.15g/7.59oz
Mmd	185.145g/6.54oz
Qms	4.21
Qes	0.496
Qts	0.444
Re	5.29Ω
Vas	113.924
Bl	24.758Tm
Cms	0.063mm/N
Rms	13.653kg/s
Le (at 1kHz)	0.96mH

## Mounting Information

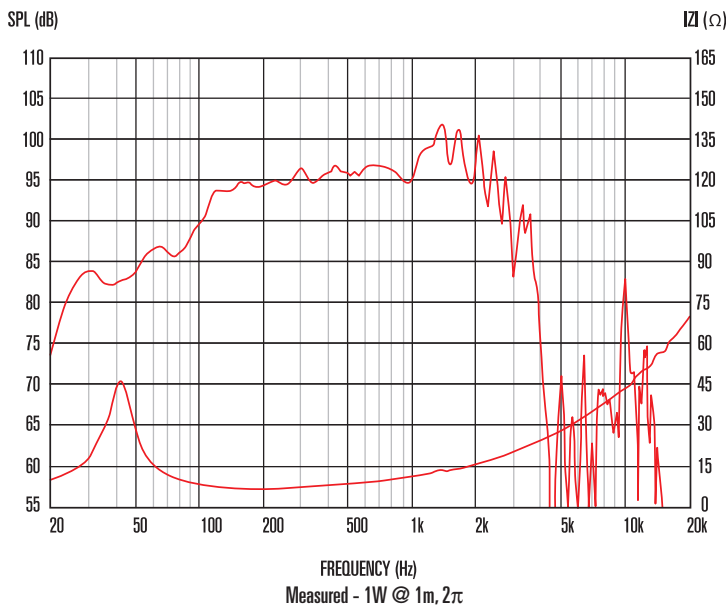
Diameter	460mm/18.11in
Overall depth	220.35mm/8.68in
Cut-out diameter	412.6mm/16.24in
Mounting slot dimensions	11mm x 7mm/0.43-0.28in
Number of mounting slots	8
Mounting PCD range	441-432mm/17.36-17.01in
Unit weight	11.6kg/25.5lb



## Features

- 18" ferrite magnet, cast aluminium chassis LF driver delivering 1000Wrms (AES Standard) power handling and 98dB sensitivity
- 4" high temperature, dual layer, Inside/Outside voice coil for higher efficiency, preventing sensitivity loss through thermal compression
- FEA optimized magnet assembly and suspension deliver highly symmetrical cone movement, leading to exceptionally low harmonic distortion
- Vented magnet assembly increases airflow to provide enhanced cooling
- Twin demodulation rings reduce flux modulation, minimizing electromagnetic distortion
- Double suspension and "multi-roll" surround provide exceptional linearity at extremes of cone excursion

## Frequency Response and Impedance Curves



1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.  
 2. Measured on axis at 1W, 1m in 2π anechoic environment.  
 3. Xmax derived from: (voice coil winding width-gap depth)/2.

HF Neo

HF Ferrite

LF Cast Chassis Neo

LF Cast Chassis Ferrite

LF Pressed Chassis Ferrite

Compact Array

Coaxial