CF18VJD

Ferrite magnet cast aluminium chassis driver

General Specifications

Nominal diameter	457mm/18in
Power rating[1]	1600Wrms
Nominal impedance	8Ω
Sensitivity[2]	97dB
Frequency range	25Hz-1500Hz
Voice coil diameter	125mm/5in
Chassis type	Cast aluminium
Magnet type	Ferrite
Coil material	Round copper
Former material	Glass fibre
Cone material	Carbon and Kevlar loaded paper
Surround material	Cloth sealed
Suspension	Double
Xmax[3]	9mm/0.35in
Gap depth	12mm/0.47in
Voice coil winding width	30mm/1.18in

Small Signal Parameters[4]

D	0.38m/14.96in
Fs	34.3Hz
Mms	259.72g/9.16oz
Mmd	238.11g/8.39oz
Qms	5.152
Qes	0.360
Qts	0.336
Re	5.98Ω
Vas	150.58lt/5.32ft^3
Bl	30.52Tm
Cms	0.083mm/N
Rms	10.88kg/s
Le (at 1kHz)	1.48mH

Mounting Information

Diameter	462mm/18.19in
Overall depth	233mm/9.17in
Cut-out diameter	416mm/16.38in
Mounting slot dimensions	11mm x 7mm/0.43in x 0.28in
Number of mounting slots	8
Mounting PCD range	441-432mm/17.36-17.0in
Unit weight	23kg/50.6lb

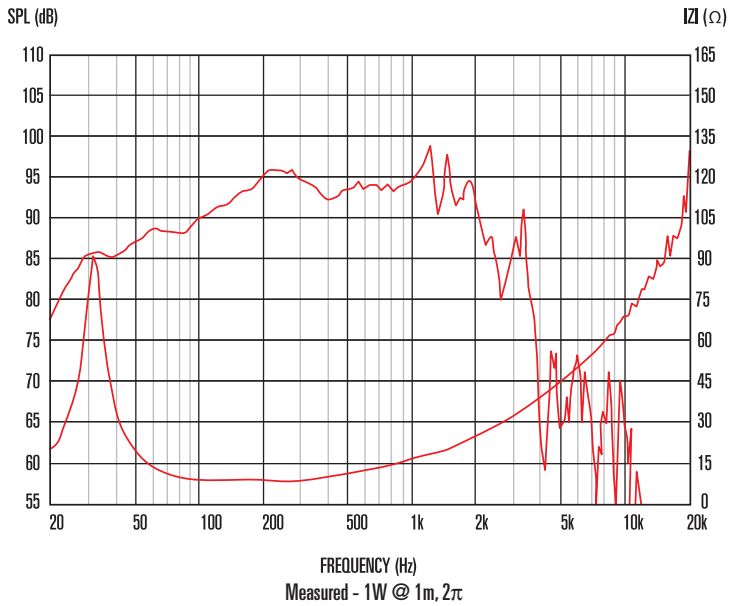
Packed Dimensions & Weight

Single pack size W x D x H	500mm x 500mm x 255mm /19.7in x 19.7in x 11in
Single pack weight	24kg/52.8lb

Features

- **18" ferrite magnet, cast aluminium chassis LF driver delivering 1600Wrms (AES Standard) power handling and 97dB sensitivity**
- **5" 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 front plate 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.
4. Small signal parameters measured after unit subjected to pre-conditioning signal.