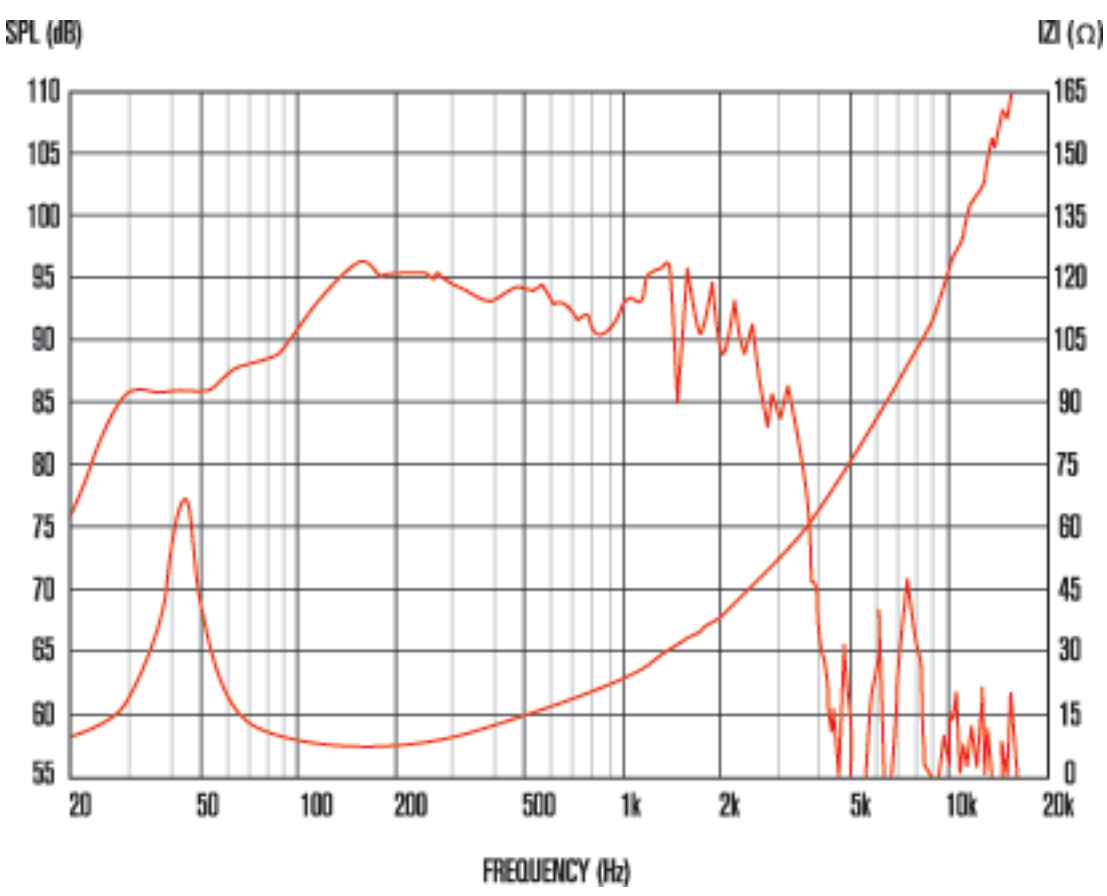
LF Cast Chassis / Ferrite

CF1830E

Features

- 18" ferrite magnet, cast aluminium chassis LF driver delivering 700Wrms (AES Standard) power handling and 94dB sensitivity
- 3" high temperature, multi- layer voice coil for greater motor force
- FEA optimized magnet assembly delivers highly symmetrical cone - movement, leading to exceptionally low harmonic distortion
- Balanced Airflow Venting (BAV) on the front-plate increases airflow to provide enhanced cooling
- Dual Magnet Motor (DMM) incorporates a secondary magnet used to increase overal motor force (Bl) without the need for any additional increase in magnet size
- "Multi-roll" surround provides exceptional linearity at extremes of cone excursion

8 Ω Frequency Response



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

General Specifications

Nominal diameter	457mm/18in
Power rating [1]	700Wrms
Nominal impedance	8
Sensitivity [2]	94dB
Frequency range	30-2500Hz
Voice coil diameter	75mm/3in
Chassis type	Cast Aluminium
Magnet type	Ferrite
Coil material	Round Copper
Former material	Glass Fibre
Cone material	Glass-Reinforced Paper
Surround material	Cloth-sealed
Suspension	Single
Xmax [3]	5mm/0.79in
Gap depth	8mm/0.31in
Voice coil winding width	18mm/0.71in

Small Signal Parameters

D	0.38m/14.96in
Fs	40.5Hz
Mms	167.47g/5.91oz
Mmd	145.86g/5.15oz
Qms	4.367
Qes	0.371
Qts	0.343
Re	5.27Ω
Vas	167.92lt/5.93ft3
Bl	24.6Tm
Cms	0.092mm/N
Rms	9.33kg/s
Le (at 1kHz)	3.24mH

Mounting Information

Diameter	460mm/18.11in
Overall depth	211.3mm/8.31in
Cut-out diameter	414mm/16.29in
Mounting slot dimensions	9.25x7mm/0.36x0.28in
Number of mounting slots	8
Mounting slot PCD	432-441mm/17.0-17.36in

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