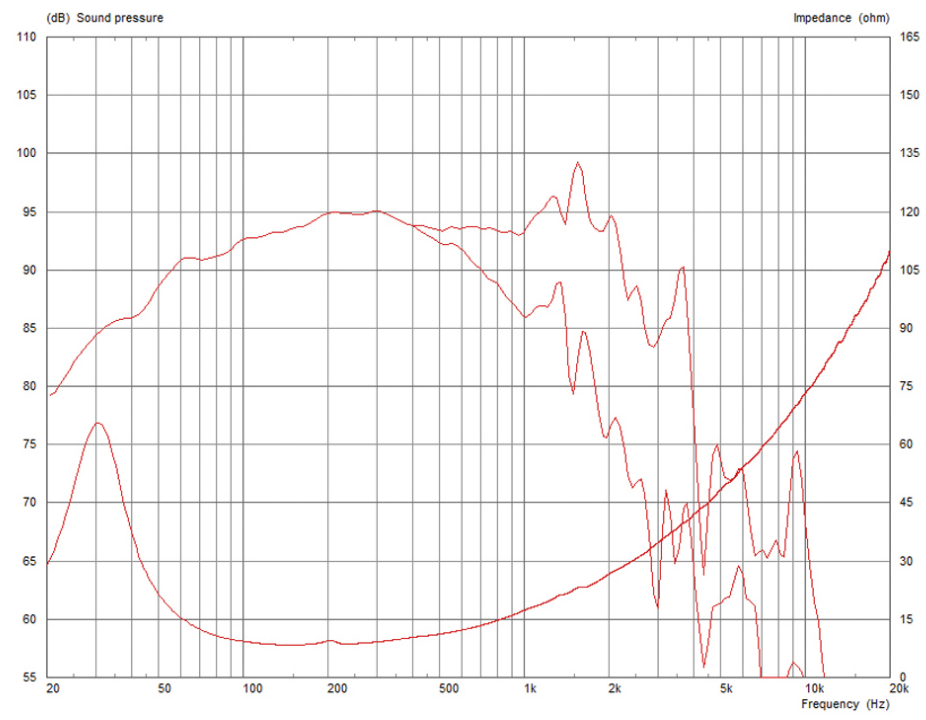
CELESTION

LF Loudspeakers

CF18VJD

- Airflow vented magnet assembly for dynamic heat dispersion
- Twin demodulation rings
- Longer coil for greater control at high excursion
- Optimised double suspension

Frequency Response and Impedance Curves



Topmost curve: Frequency response on axis | Secondary curve: Frequency response at 45° off axis

Power rating: 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.

Continuous power rating: Defined as 3dB greater than the AES rating.

Sensitivity: Measured on axis at 1W, 1m in 2 anechoic environment.

Parameters: Measured after unit subjected to pre-conditioning signal.

Xmax: 0.5*(Hvc-Hg) + 0.25*Hg

General Specifications

Nominal Diameter	457mm / 18in
Power Rating	1600W
Continuous power rating	3200W
Rated impedance	8
Sensitivity	97dB
Frequency range	25-1500Hz
Chassis type	Cast aluminium
Magnet type	Ferrite
Magnet weight	4.93kg / 174oz
Voice coil diameter	125mm / 5in
Voice coil material	Round copper
Former material	Glass fibre
Cone material	Carbon and kevlar loaded paper
Surround material	Cloth-sealed
Suspension	Double
Xmax	12mm / 0.47in
Gap height (Hg)	12mm / 0.47in
VC winding height (Hvc)	30mm / 1.18in
Additional impedances	4

Mounting Information

Overall diameter	462mm / 18.19in
Overall depth	233mm / 9.2in
Cut-out diameter	416mm / 16.38in
Mounting hole dimensions	11x7mm / 0.43x0.28in
Number of mounting holes	8
Mounting hole PCD	432-441mm / 17.0-17.36in
Unit weight	23kg / 50.6lb

Parameters

Sd	1134.12cm2 / 175.79in2
Fs	34.50Hz
Mms	265.42g / 9.36oz
Qms	4.573
Qes	0.332
Qts	0.309
Re	6.13
Vas	145.81l / 5.15ft3
Bi	32.59Tm
Cms	0.08mm/N
Rms	12.59kg/s
Le (at 1kHz)	1.87mH
Xmax	12mm / 0.47in

Packed Dimensions & Weight

Single pack size W x D x H	500mm x 500mm x 255mm / 19.7in x 19.7in x 10in
Single pack weight	24kg / 52.8lb

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