CELESTION

LF Loudspeakers

CF1230BMB

12-inch cast aluminium chassis, ferrite magnet bass/mid-bass driver

Optimised for bass and mid/bass applications Half-roll Elastomer surround enables greater Xmax/Xmech Modified T-pole enhances performance through improved Bl symmetry Airflow vented magnet assembly for dynamic heat dispersion Demodulation ring for reduced harmonic and intermodulation distortion

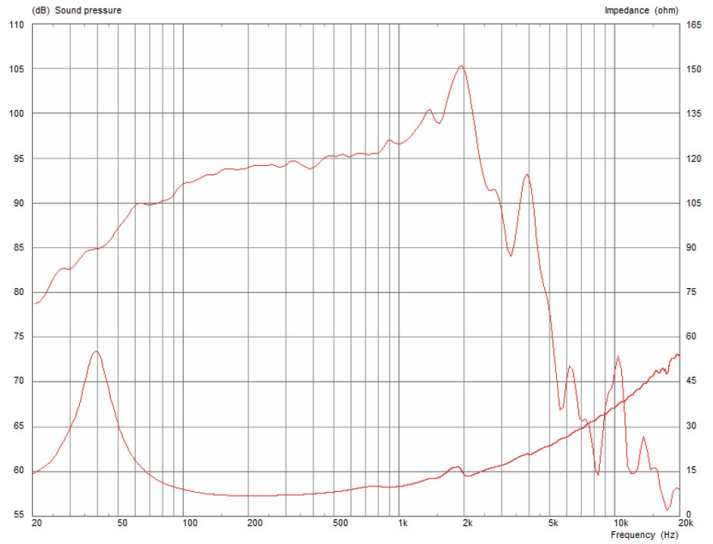
General Specifications

Nominal Diameter	305mm / 12in
Power Rating	350W
Continuous power rating	700W
Rated impedance	8 Ω
Sensitivity	96dB
Frequency range	50-3,000Hz
Chassis type	Cast aluminium
Magnet type	Ferrite
Magnet weight	2.2kg / 75oz
Voice coil diameter	75mm / 3in
Voice coil material	Copper clad aluminium
Former material	Glass Fibre
Cone material	Glass loaded paper (weather-resistant)
Surround material	Elastomer
Suspension	Single
Gap height (Hg)	8mm / 0.31in
VC winding height (Hvc)	18mm / 0.7in
Additional impedances	16?

Mounting Information

Overall diameter	315mm / 12.4in
Overall depth	155.5mm / 6.1
Cut-out diameter	285.6mm / 11.24in
Mounting hole dimensions	10mmx6.5mm / 0.39in x0.26in
Number of mounting holes	8
Mounting hole PCD	294-300mm / 11.6-11.8in
Unit weight	6.75kg / 14.9lb

Frequency Response and Impedance Curves



Parameters

Sd	530.93cm2 / 82.3in2
Fs	43.4Hz
Mms	88.41g / 3.12oz
Qms	4.451
Qes	0.417
Qts	0.381
Re	5.84 Ω
Vas	60.68l / 2.14ft3
Bi	18.38Tm
Cms	0.152mm/N
Rms	5.416kg/s
Le (at 1kHz)	0.713mH
Xmax	7mm / 0.28in

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

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