CELESTION

LF Loudspeakers

FTR12-4080DL

12-inch, cast aluminium chassis, ferrite magnet LF driver







- Half-roll elastomer surround
- Long excursion: 13.6mm mathematical Xmax
- Glass loaded paper cone with weather-resistant impregnation
- Optimised double suspension
- Airflow vented magnet assembly for dynamic heat dispersion

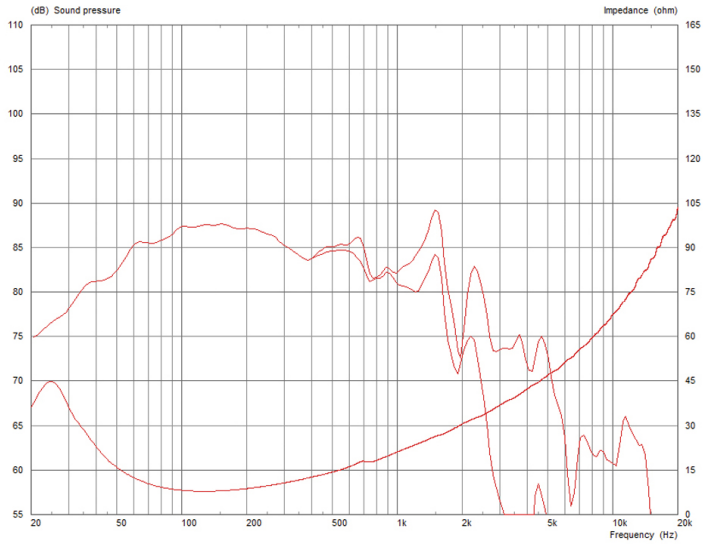
General Specifications

Nominal Diameter	305mm / 12in
Power Rating	700W
Continuous power rating	1400W
Rated impedance	8 Ω
Sensitivity	88dB
Frequency range	20-300Hz
Chassis type	Cast aluminium
Magnet type	Ferrite
Magnet weight	3.6kg / 126oz
Voice coil diameter	100mm / 4in
Voice coil material	Round copper
Former material	Aluminium
Cone material	Glass loaded paper (weather-resistant)
Surround material	Elastomer
Suspension	Double
Gap height (Hg)	9.5mm / 0.37in
VC winding height (Hvc)	32mm / 1.26in
Additional impedances	4?

Mounting Information

Overall diameter	313mm / 12.3in
Overall depth	169mm / 6.7in
Cut-out diameter	282mm / 11.1in
Mounting hole dimensions	10x7mm / 0.39x0.27in
Number of mounting holes	8
Mounting hole PCD	291-301mm / 11.7-11.9in
Unit weight	10.2kg / 22.4lb

Frequency Response and Impedance Curves



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

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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

Parameters

Sd	530.93cm2 / 82.29in^2
Fs	28.90Hz
Mms	176.07g / 6.21oz
Qms	2.466
Qes	0.345
Qts	0.303
Re	6.24 Ω
Vas	68.60l / 2.42ft ^{3}
Bi	24.05Tm
Cms	0.17mm/N
Rms	12.97kg/s
Le (at 1kHz)	2.07mH
Xmax	13.6mm / 0.54in

Packed Dimensions & Weight

Single pack size W x D x H	360mm x 3860mm x 200 mm / 14.2 in x 14.2i n x 7.9in
Single pack weight	11.5kg / 25.3lb
Multi pack qty	36
Multi pack size W x D x H	1210mm x 1050mm x 980mm / 47.6in x 41.3i n x 35.4in
Multi pack weight	400kg / 880lb

Celestion, Claydon Business Park, Great Blakenham, Ipswich, IP6 0NL United Kingdom