CELESTION

Legacy Pro Audio

FTR18-4080FDX

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

- Legacy part: out of production
- Ferrite 18 inch woofer provides 800Wrms power handling (AES standard) and 96dB sensitivity
- 4" high temperature Inside/Outside voice coil efficiently dissipates heat preventing sensitivity loss through thermal compression
- FEA optimised magnet assembly provides low harmonic distortion and very high motor strength
- Ribbed straight-sided glass-loaded cone with Flexirol(TM) surround for greater excursion control
- Double suspension for exceptional linearity at the highest excursions
- Smart chassis design minimises acoustic distortion

1600W
Continuous power rating

96dB
Sensitivity

4in
Round copper voice coil

General Specifications

Nominal Diameter	457mm / 18in
Power Rating	800W
Continuous power rating	1600W
Rated impedance	8 ohm
Sensitivity	96dB
Frequency range	30-1000Hz
Chassis type	Cast aluminium
Magnet type	Ferrite
Magnet weight	3.1kg / 110oz
Voice coil diameter	100mm / 4in
Voice coil material	Round copper
Former material	Glass fibre
Cone material	Glass loaded paper (weather-resistant)
Surround material	Cloth-sealed
Suspension	Double
Gap height (Hg)	10mm / 0.39in
VC winding height (Hvc)	22mm / 0.87in

Mounting Information

Overall diameter	462mm / 18.19in
Overall depth	205mm / 8.07in
Cut-out diameter	416mm / 16.38in
Mounting hole dimensions	10mm x 7mm / 0.39in x 0.27in
Number of mounting holes	8
Mounting hole PCD	429-440mm / 16.89-17.32in
Unit weight	9.8kg / 21.6lb

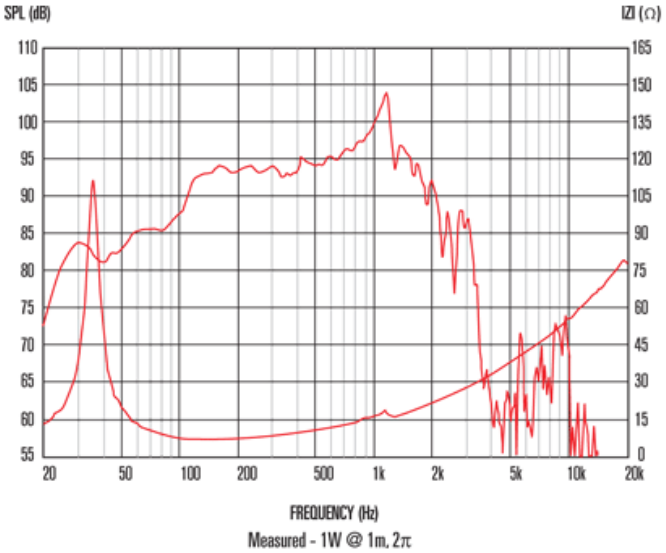
Parameters

Sd	1134.12cm^2 / 175.79in^2
Fs	37.3Hz
Mms	206.36g / 7.28oz
Qms	10.25
Qes	0.43
Qts	0.413
Re	5.62 ohm
Vas	160.74l / /5.67ft^3
Bl	25.116Tm
Cms	0.088mm/N
Rms	4.716kg/s
Le (at 1kHz)	1.52mH
Xmax	6mm / 0.24in

Packed Dimensions & Weight

Single pack size W x D x H	500mm x 500mm x 2240mm / 19.7in x 19.7in x 9.4in
Single pack weight	11.6kg / 25.6lb
Multi pack size W x D x H	500mm x 500mm x 2240mm / 19.7in x 19.7in x 9.4in
Multi pack weight	11.6kg / 25.6lb

Frequency Response and Impedance Curves



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: Hvc-Hg/2

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