CELESTION

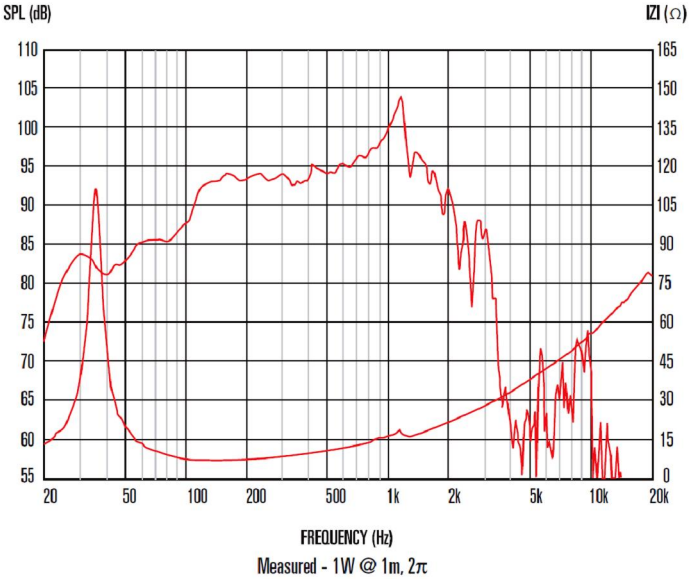
FTR18-4080FDX

Ferrite magnet aluminium chassis LF driver

Features

- 18” ferrite 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
- Finite element analysis optimised magnet assembly delivers remarkably low harmonic distortion and very high motor strength
- Ribbed, straight-sided, glass-loaded cone with Flexirol™ surround for enhanced control
- Double suspension ensures a linear performance at high excursion
- Smart chassis design minimises reflections back onto the cone, significantly reducing acoustic distortion

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1 Tested for 2 hours using a continuous band-limited pink noise signal as per AES standard. Power calculated on min. impedance. Loudspeaker tested in free air.
2 Continuous Power Handling is defined as 3dB greater than the AES rating.
3 Xmax derived from: (voice coil winding width-gap depth)/2.

General Specifications

Nominal diameter	457mm/18in
AES standard power handling[1]	800Wrms
Continuous power handling[2]	1600W
Nominal impedance	8Ω
Sensitivity	96dB
Frequency range	30Hz-1500Hz
Voice coil diameter	100mm/4in
Chassis type	Cast Aluminium
Magnet type	Ferrite
Magnet weight	3.1kg/110oz
Coil material	Round Copper
Former material	Glass Fibre
Cone material	Glass fibre reinforced paper
Surround material	Cloth-sealed
Suspension	Double
Xmax[3]	6mm/0.24in
Gap depth	10mm/0.39in
Voice coil winding width	22mm/0.87in

Small Signal Parameters

D	0.38m/14.96in
Sd	1134cm^2/175.8in^2
Fs	37.3Hz
Mms	206.36g/7.28oz
Qms	10.25
Qes	0.43
Qts	0.413
Re	5.62Ω
Vas	160.74lt/5.67ft^3
Bl	25.12Tm
Cms	0.088mm/N
Rms	4.72kg/s
Le (at 1kHz)	1.52mH

Mounting Information

Overall diameter	462mm/18.2in
Overall depth	205mm/10.2in
Cut-out diameter	416mm/16.4in
Mounting slot dimensions	10mm x 7mm/ 0.38in x 0.27in
Number of mounting slots	8
Mounting slot PCD	429-440mm/16.9-17.3in
Unit Weight	9.8kg/22lb

Packing Information

Single pack size WxDxH	500 x 500 x 224mm /19.7 x 19.7 x 9.4in
Single pack weight	11.6kg/25.6lb

Celestion, Claydon Business Park, Great Blakenham, Ipswich IP6 0NL, UK T: +44 (0)1473 835300 info@celestion.com www.celestion.com
Celestion adopts a progressive policy and we reserve the right to alter drive unit specifications and/or appearance without prior notice. E & OE.