CELESTION

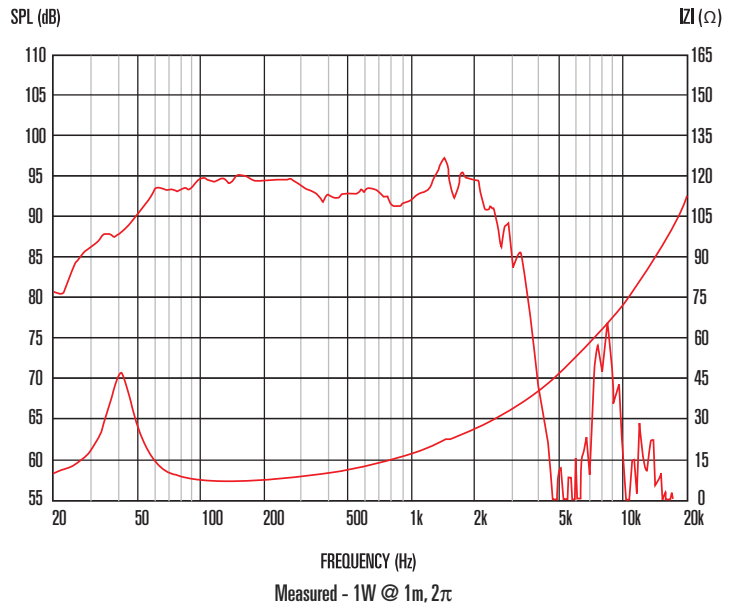
FTR18-4080HDX

Ferrite magnet aluminium chassis driver

Features

- **18" ferrite subwoofer provides 1000Wrms (AES standard) power handling and a frequency response of 30Hz-2500Hz**
- **4" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss through thermal compression**
- **Double suspension and a "multi-roll" surround provide exceptional linearity at extremes of cone excursion**
- **Intelligent heat management in both chassis and magnet assembly design further minimizes distortion**
- **Less than 10kg – very low weight for this product class**

Frequency Response and Impedance Curves



Measured - 1W @ 1m, 2π

1. 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.
2. Measured on axis at 1W, 1m in 2π anechoic environment.
3. Xmax derived from: (voice coil winding width-gap depth)/2.
4. Small signal parameters measured after unit subjected to pre-conditioning signal.

General Specifications

Nominal diameter	457mm/18in
Power rating[1]	1000Wrms
Nominal impedance	8Ω
Sensitivity[2]	95dB
Frequency range	30-2500Hz
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 loaded paper with weather resistant impregnation
Surround material	Cloth-sealed
Suspension	Double
Xmax[3]	8mm/0.33in
Gap depth	9.5mm/0.37in
Voice coil winding width	25mm/0.99in

Small Signal Parameters[4]

D	0.38m/14.96in
Fs	35.5Hz
Mms	199.02g/7.025oz
Mmd	177.41g/6.26oz
Qms	5.74
Qes	0.46
Qts	0.42
Re	5.01Ω
Vas	184.24lt/6.5ft^3
Bl	22.11Tm
Cms	0.10mm/N
Rms	7.72kg/s
Le (at 1kHz)	1.81mH

Mounting Information

Overall diameter	462mm/18.19in
Overall depth	205mm/8.07in
Cut-out diameter	416mm/16.38in
Mounting slot dimensions	10mm x 7mm/0.4in x 0.27in
Number of mounting slots	8
Mounting slot PCD range	429-440mm/16.89-17.32in
Unit weight	9.8kg/21.6lb

Packed Dimensions & Weight

Single pack size W x D x H	500mm x 500mm x 240mm /19.7in x 19.7in x 9.4in
Single pack weight	11.6kg/25.6lb
Multipack (24) size W x D x H	1210mm x 1050mm x 980mm /47.6in x 41.3in x 35.4in
Multipack (24) weight	260kg/572lb