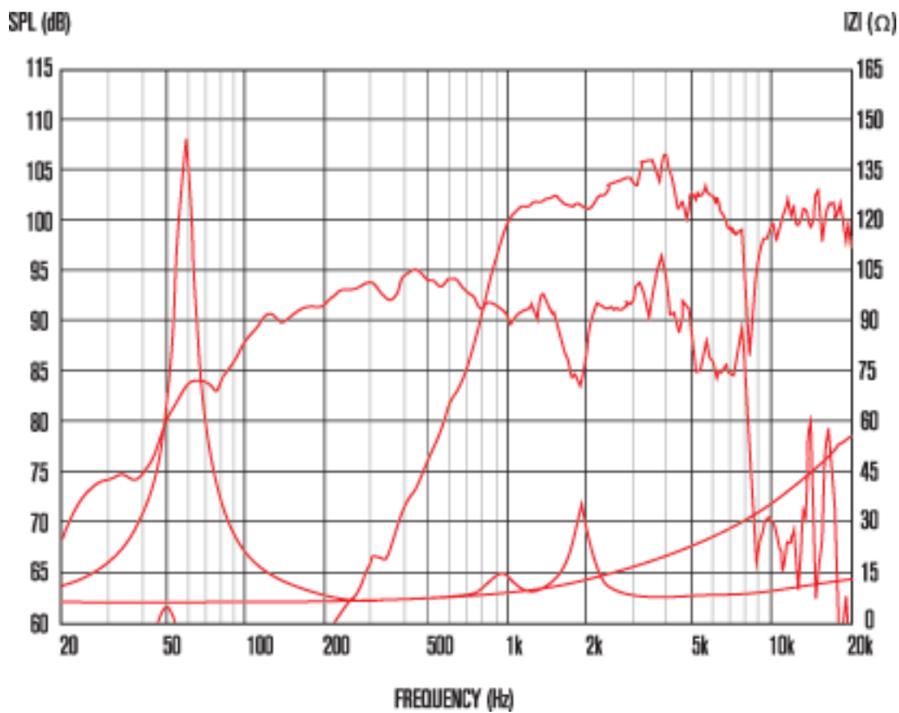# CELESTION

Coaxial/Twin Cone

FTX0820

Features

- 8" coaxial loudspeaker providing 200Wrms (AES standard) power handling and 94dB sensitivity
- Full range frequency response: 70 – 20,000Hz
- FEA (Finite Element Analysis) optimized ferrite magnet assembly acts as common motor for both LF and HF drivers resulting in enhanced coherence
- Robust cast aluminium chassis is designed to minimize unwanted reflections, further reducing acoustic distortion
- Demodulation ring reduces flux modulation, minimizing electromagnetic distortion
- 2" edgewound copper voice coil wound on high temperature glass fibre former
- 100° nominal HF coverage

8   Frequency Response

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 2 anechoic environment.
3. Xmax derived from: (voice coil winding width-gap depth)/2.

General Specifications

Nominal diameter	200mm/8in
Power rating [1]	200Wrms
Nominal impedance	8
Sensitivity [2]	94dB
Frequency range	70-4000Hz
Voice coil diameter	50mm/2in
Chassis type	Cast Aluminium
Magnet type	Ferrite
Magnet weight	1.5kg/54oz
Coil material	Edgewound copper
Former material	Glass fibre
Cone material	Kevlar loaded paper
Surround material	Cloth-sealed
Suspension	Single
Xmax [3]	2mm/0.08in
Gap depth	8mm/0.31in
Voice coil winding width	12mm/0.47in

Small Signal Parameters

D	0.17m/6.69in
Fs	63.9Hz
Mms	21.12g/0.75oz
Mmd	19.19g/0.68oz
Qms	4.709
Qes	0.242
Qts	0.231
Re	5.9
Vas	21.38lt/0.75ft3
Bl	14.4Tm
Cms	0.238mm/N
Rms	1.802kg/s
Le (at 1kHz)	0.84mH

General Specifications: HF

Power rating&sup1;	40Wrms
Nominal impedance	8
Sensitivity&sup2;	103dB
Frequency range	1500-20,000Hz
Recommended min. crossover (12dB/oct)	2200Hz
Voice coil diameter	34mm/1.4in
Diaphragm and surround material	Polyimide

Mounting Information

Overall depth	114mm/4.49in
Cut-out diameter	187mm/7.36in
Mounting slot dimensions	ø6.5mm/0.26in
Number of mounting slots	8
Mounting PCD range	210mm/8.27in
Unit weight	4.1kg/9.0lb

CELESTION