## **CELESTION**

# **Coaxial Loudspeakers**

### FTX0820

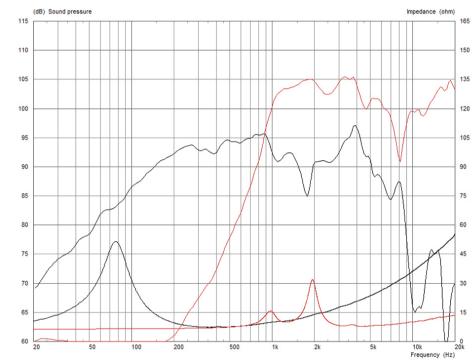






- · Ferrite magnet assembly acts as common motor for both LF and HF
- Polyimide HF diaphragm
- Demodulation ring
- 100° nominal HF coverage
- HF repair kit available

#### **Frequency Response and Impedance Curves**



Black: LF response curve | Red: HF response curve

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

HF power rating: Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.

Continuous power rating: Defined as 3dB greater than the AES rating.

Sensitivity: Measured on axis at 1W, 1m in 2 anechoic environment.

Xmax: 0.5\*(Hvc-Hg) + 0.25\*Hg

Suggested crossover design available online at celestion.com/speakerworld

### **General Specifications**

**Nominal Diameter** 

**Power Rating** 200W Continuous power rating 400W Rated impedance 8 Sensitivity 94dB Frequency range 70-5000Hz Chassis type Cast aluminium Magnet type **Ferrite** Magnet weight 1.5kg / 54oz Voice coil diameter 50mm / 2in

200mm / 8in

Voice coil material Edgewound copper

Former material Glass fibre

Cone material Kevlar loaded paper

Surround material Cloth-sealed
Suspension Single
Xmax 4mm / 0.16in
Gap height (Hg) 8mm / 0.31in
VC winding height (Hvc) 12mm / 0.47in

### **Mounting Information**

Overall diameter 225mm / 8.8in (octagonal profi

le)

Overall depth 123mm / 4.8in
Cut-out diameter 187mm / 7.36in
Mounting hole dimensions 6.5mm / 0.26in

Number of mounting holes 8

Mounting hole PCD 210mm / 8.27in
Unit weight 4.1kg / 9lb

#### **Parameters**

Sd 226.98cm2 / 35.18in2

Fs 78.80Hz Mms 22.66g / 0.80oz

 Qms
 2.800

 Qes
 0.310

 Qts
 0.279

 Re
 5.85

 Vas
 13.13I

 Vas
 13.13I / 0.46ft3

 Bi
 14.56Tm

 Cms
 0.18mm/N

 Rms
 4.01kg/s

 Le (at 1kHz)
 0.62mH

 Xmax
 4mm / 0.16in

## **Additional HF Specifications**

Power rating 40W
Continuous power rating 80W
Rated impedance 8
Sensitivity 103dB

Frequency range 1500-20,000Hz

Recommended min. crossove 2200Hz

r 12dB/oct

Voice coil diameter 34mm / 1.4in

Magnet type Dual-ferrite magnet motor

Diaphragm material Polyimide
Surround material Polyimide

## **Packed Dimensions & Weight**

Single pack size W x D x 238mm x 238mm x 148mm / 9.3in

H x 9.3in x 5.8in

Single pack weight 4.7kg / 10.3lb

Multi pack qty 40

Multi pack size W x D x H 890mm x 1100mm x 890mm / 35.08

in x 43.3in x 35.0in

Multi pack weight 195kg / 430lb

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