

## Coaxial Loudspeakers

### FTX0820



## 8-inch cast aluminium chassis, ferrite magnet coaxial driver

- 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

**400W**

Continuous power rating

**94dB**

sensitivity

**2in**

Edgewound coil copper voice

**1.4in**

#### General Specifications

|                         |                     |
|-------------------------|---------------------|
| Nominal Diameter        | 200mm / 8in         |
| Power Rating            | 200W                |
| Continuous power rating | 400W                |
| Rated impedance         | 8 ohm               |
| Sensitivity             | 94dB                |
| Frequency range         | 70-5000Hz           |
| Chassis type            | Cast aluminium      |
| Magnet type             | Ferrite             |
| Magnet weight           | 1.5kg / 54oz        |
| Voice coil diameter     | 50mm / 2in          |
| Voice coil material     | Edgewound copper    |
| Former material         | Glass fibre         |
| Cone material           | Kevlar loaded paper |
| Surround material       | Cloth-sealed        |
| Suspension              | Single              |
| Gap height (Hg)         | 8mm / 0.31in        |
| VC winding height (Hvc) | 12mm / 0.47in       |

#### Mounting Information

|                          |                                   |
|--------------------------|-----------------------------------|
| Overall diameter         | 225mm / 8.8in (octagonal profile) |
| 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           | 226.98cm <sup>2</sup> / 35.18in <sup>2</sup> |
| Fs           | 78.80Hz                                      |
| Mms          | 22.66g / 0.80oz                              |
| Qms          | 2.800  |
| Qes          | 0.310  |
| Qts          | 0.279  |
| Re           | 5.85 ohm                                     |
| Vas          | 13.13l / 0.46ft <sup>3</sup>                 |
| Bi           | 14.56Tm                                      |
| Cms          | 0.18mm/N                                     |
| Rms          | 4.01kg/s                                     |
| Le (at 1kHz) | 0.62mH                                       |
| Xmax         | 4mm / 0.16in                                 |

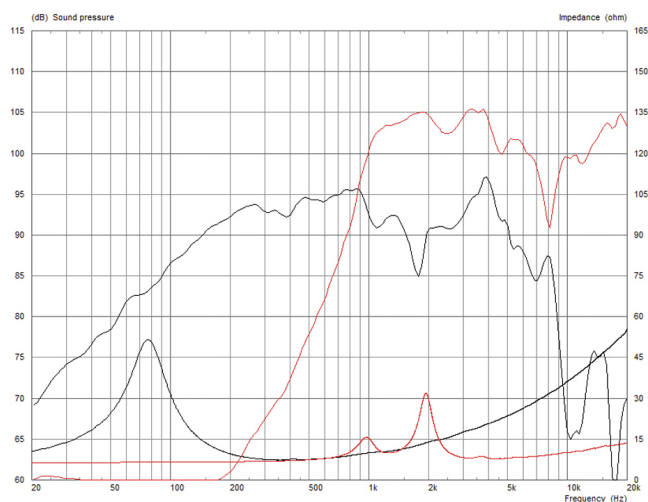
#### Additional HF Specifications

|                            |                           |
|----------------------------|---------------------------|
| Power rating               | 40W                       |
| Continuous power rating    | 80W                       |
| Rated impedance            | 8 ohm                     |
| Sensitivity                | 103dB                     |
| Frequency range            | 1500-20,000Hz             |
| Recommended min. crossover | 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 H | 238mm x 238mm x 148mm / x 9.3in 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 / 35.08in x 43.3in x 35.0in |
| Multi pack weight          | 195kg / 430lb                                      |

#### 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.

**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 pi anechoic environment.

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

**Suggested crossover design available online at**  
[celestion.com/speakerworld](http://celestion.com/speakerworld)