

CELESTION

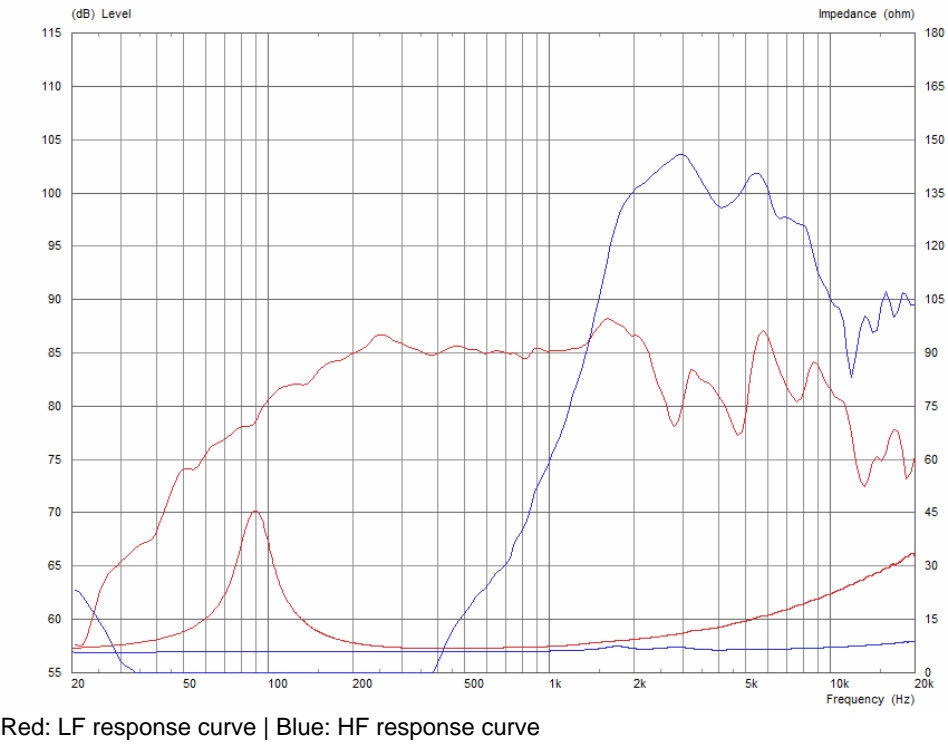
Coaxial Loudspeakers

TFX0412



- Ferrite magnet assembly acts as common motor for both LF and HF
- Rear-mounted compression driver with polyimide diaphragm delivers HF signal
- Ferrite magnet assembly acts as a common motor for both low and high frequency coils
- Demodulation ring for reduced distortion
- Waterproof cone coating
- 80° nominal HF coverage

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 anechoic environment.

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

General Specifications

| | |
|-------------------------|---|
| Nominal Diameter | 100mm / 4in |
| Power Rating | 100W |
| Continuous power rating | 200W |
| Rated impedance | 8Ω |
| Sensitivity | 86dB |
| Frequency range | 90-4500Hz |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Voice coil diameter | 32mm / 1.25in |
| Voice coil material | Copper clad aluminium |
| Former material | Polyimide |
| Cone material | Reinforced cellulose, waterpro of coating |
| Surround material | Elastomer |
| Suspension | Single |
| Xmax | 4mm / 0.16in |
| Gap height (Hg) | 6mm / 0.24in |
| VC winding height (Hvc) | 11mm / 0.43in |

Mounting Information

| | |
|--------------------------|--------------------|
| Overall diameter | 126mm / 4.96in |
| Overall depth | 74.2mm / 2.9in |
| Cut-out diameter | 102mm / 4.02in |
| Mounting hole dimensions | 5x7mm / 0.2x0.28in |
| Number of mounting holes | 4 |
| Mounting hole PCD | 114.4mm / 4.5in |
| Unit weight | 0.6kg / 1.3lb |

Parameters

| | |
|--------------|--------------------|
| Sd | 56.75cm2 / 8.79in2 |
| Fs | 95Hz |
| Mms | 5.8g / 0.204oz |
| Qms | 5.184 |
| Qes | 0.665 |
| Qts | 0.589 |
| Re | 56Ω |
| Vas | 2.18l / 0.077ft3 |
| Bi | 5.4Tm |
| Cms | 0.478mm/N |
| Rms | 0.674kg/s |
| Le (at 1kHz) | 0.34mH |
| Xmax | 4mm / 0.16in |

Additional HF Specifications

| | |
|-----------------------------|-----------------------|
| Power rating | 15W |
| Continuous power rating | 30W |
| Rated impedance | 8Ω |
| Sensitivity | 107dB |
| Frequency range | 2200-20,000Hz |
| Recommended min. crossove r | 2500Hz |
| 12dB/oct | |
| Voice coil diameter | 25mm / 1in |
| Magnet type | Ferrite, common motor |
| Diaphragm material | Polyimide |
| Surround material | Polyimide |

Packed Dimensions & Weight

| | |
|---------------------------|--|
| Multi pack qty | 16 |
| Multi pack size W x D x H | 470mm x 240mm x 205mm / 18.5in x 9.4in x 8.1in |
| Multi pack weight | 35kg / 77lb |



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