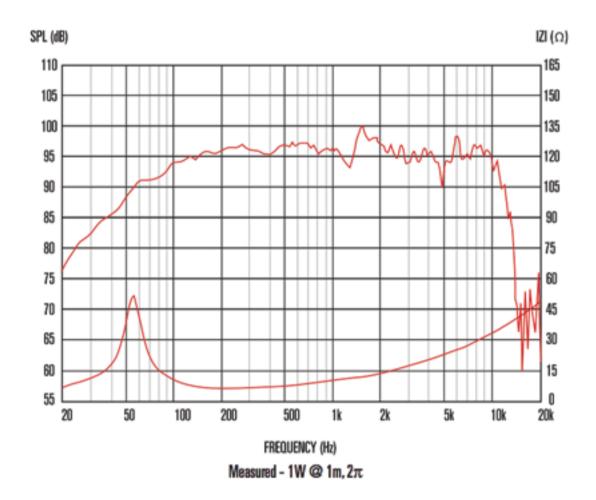# CELESTION

## Coaxial/Twin Cone

# K12H-200TC

- 12" twin cone drive unit with extended high frequency response
- 2" high temperature copper voice coil for increased reliability and 200Wrms (AES standard) power handling
- Optimised cone neck/voice coil assembly for increased strength, minimising high frequency distortion and improving sound quality
- Secondary cone terminated by pressure formed cloth dust cap for enhanced mid-band clarity
- High efficiency magnet structure design delivers improved sensitivity
- Double roll surround for greater excursion control and smooth frequency response

## 8    Frequency Response



FREQUENCY (Hz)
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 2 anechoic environment.

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

## General Specifications

| | |
|---|---|
| Nominal diameter | 305mm/12in |
| Power rating [1] | 200Wrms |
| Nominal impedance | 8 |
| Sensitivity [2] | 98dB |
| Frequency range | 50-10,000Hz |
| Voice coil diameter | 50mm/2in |
| Chassis type | Pressed steel |
| Magnet type | Ferrite |
| Magnet weight | 1.41kg/50oz |
| Coil material | Round copper |
| Former material | Polyimide |
| 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 | 0.26m/0.24in |
| Fs | 60.0Hz |
| Mms | 46.514g/1.64oz |
| Mmd | 39.592g/1.39oz |
| Qms | 4.585 |
| Qes | 0.583 |
| Qts | 0.481 |
| Re | 5.61 |
| Vas | 60.3lt/2.13ft3 |
| Bl | 13.535 Tm |
| Cms | 0.151mm/N |
| Rms | 3.826 kg/s |
| Le (at 1kHz) | 0.683 mH |

## Mounting Information

| | |
|---|---|
| Diameter | 309mm/12.2in |
| Overall depth | 130.25mm/5.14in |
| Cut-out diameter | 283mm/11.14in |
| Mounting slot dimensions | ø7.9mm/0.31in |
| Number of mounting slots | 4 |
| Mounting PCD range | 297mm/11.69in |
| Unit weight | 3.9kg/8.6lb |

## Packed Dimensions & Weight

| | |
|---|---|
| Single pack size W x D x H | 333mm x 322mm x 145mm /13.1in x 12.7in x 5.7in |
| Single pack weight | 5.0kg/11lb |

## CELESTION