CELESTION

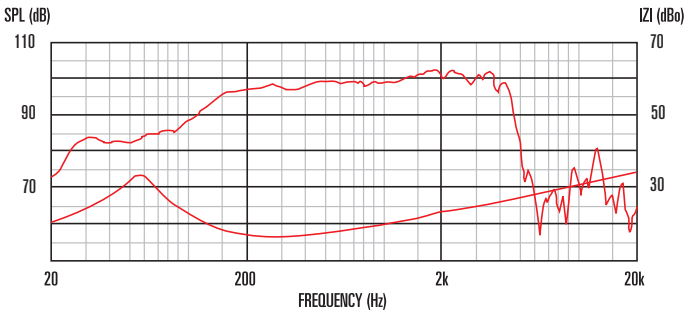
TN1225

Neodymium magnet steel chassis driver

Features

- **12" Bass/mid-range driver providing 97dB sensitivity and 250Wrms (AES standard) continuous power handling**
- **2.5" high-temperature copper voice coil wound on polyimide for increased reliability**
- **Features compact and lightweight neodymium magnet assembly**
- **Smart use of venting and specially designed heatsink for reduced thermal compression**
- **Effective flux management enables increased sensitivity**

Frequency Response and Impedance Curves



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 2π anechoic environment.
3. Xmax derived from: (voice coil winding width-gap depth)/2.
4. Small signal parameters measured after unit subjected to pre-conditioning signal.

General Specifications

Nominal diameter	305mm/12in
Power rating[1]	250Wrms
Nominal impedance	8Ω
Sensitivity[2]	97dB
Frequency range	50-4000Hz
Voice coil diameter	64mm/2.5in
Chassis type	Pressed steel
Magnet type	Neodymium
Coil material	Round copper
Former material	Polyimide
Cone material	Kevlar loaded paper
Surround material	Cloth-sealed
Suspension	Single
Xmax[3]	2.5mm/0.099in
Gap depth	8mm/0.32in
Voice coil winding width	13mm/0.51in

Small Signal Parameters[4]

D	0.26m/10.24in
Fs	60.5Hz
Mms	51.15g/1.81oz
Mmd	44.23g/1.74oz
Qms	3.03
Qes	0.37
Qts	0.33
Re	5.18Ω
Vas	53.92lt/1.90ft^3
Bl	16.48Tm
Cms	0.14mm/N
Rms	6.43kg/s
Le (at 1kHz)	0.63mH

Mounting Information

Overall Diameter	309mm/12.17in
Overall depth	132mm/5.20in
Cut out diameter	283mm/11.14in
Mounting slot dimensions	Ø 7.9mm/0.31in
Number of mounting slots	4
Mounting slot PCD	297mm/11.69in
Unit weight	2.0kg/4.4lb

Packed Dimensions & Weight

Single pack size W x D x H	330mm x 330mm x 150mm /13.0in x 13.0in x 5.9in
Single pack weight	2.4kg/5.3lb
Multipack (60) size W x D x H	1008mm x 980mm x 860mm /39.7in x 38.6in x 33.9in
Multipack (60) weight	146kg/322lb