



TN1230

Neodymium magnet steel chassis driver

General Specifications

| | |
|---------------------------|---------------------|
| Nominal diameter | 305mm/12in |
| Power rating ¹ | 300Wrms |
| Nominal impedance | 8Ω |
| Sensitivity ² | 97dB |
| Frequency range | 50-4000Hz |
| Voice coil diameter | 75mm/3in |
| 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 | 3.75mm/0.148in |
| Gap depth | 10mm/0.39in |
| Voice coil winding width | 17.5mm/0.69in |

Small Signal Parameters

| | |
|--------------|-----------------------------|
| D | 0.26m/10.24in |
| Fs | 54.8Hz |
| Mms | 56.11g/1.98oz |
| Mmd | 49.19g/1.74oz |
| Qms | 3.11 |
| Qes | 0.30 |
| Qts | 0.28 |
| Re | 5.33Ω |
| Vas | 59.86lt/2.11ft ³ |
| Bl | 18.45Tm |
| Cms | 0.15mm/N |
| Rms | 6.22kg/s |
| Le (at 1kHz) | 0.94mH |

Mounting Information

| | |
|--------------------------|---------------|
| Overall Diameter | 309mm/12.17in |
| Overall depth | 132mm/5.20in |
| Cut out diameter | 283mm/11.14in |
| Mounting slot dimensions | ø7.9mm/0.31in |
| Number of mounting slots | 4 |
| Mounting slot PCD | 297mm/11.69in |
| Unit weight | 2.0kg/4.4lb |

Packed Dimensions & Weight

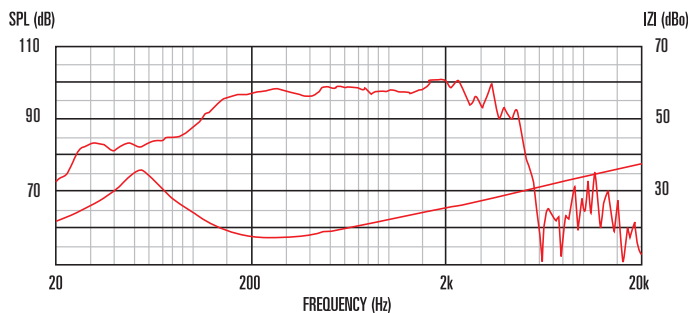
| | |
|-------------------------------|---------------------------|
| Single pack size W x D x H | 330mm x 330mm x 150mm |
| | /13.0in x 13.0in x 5.9in |
| Single pack weight | 2.4kg/5.3lb |
| Multipack (60) size W x D x H | 1008mm x 980mm x 860mm |
| | /39.7in x 38.6in x 33.9in |
| Multipack (60) weight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



Features

- 12" Bass and mid-range driver provides 300Wrms (AES standard) power handling and 99dB sensitivity
- 3" high-temperature copper voice coil wound on polyimide for increased reliability
- FEA optimised neodymium magnet assembly design for lower weight and reduced harmonic distortion
- "M-Roll" surround provides progressive excursion control yielding a smooth response curve at extremes of frequency range
- Kevlar-loaded cone with sealed surround and damping contributes to lower distortion
- Rigid chassis design for maximum energy transfer

Frequency Response and Impedance Curves



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.