

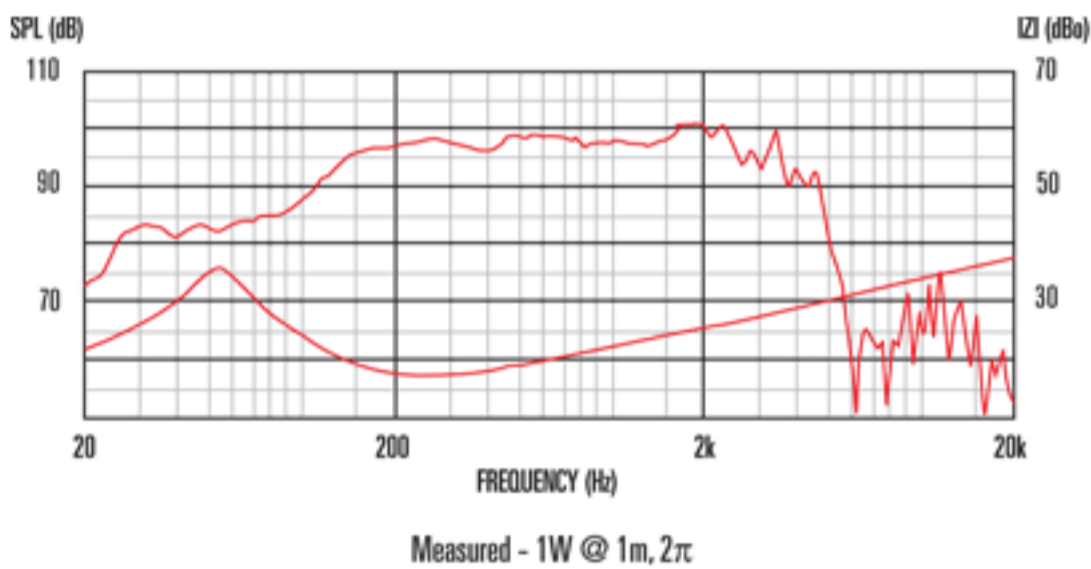
### TN1230



#### Features

- 12" Bass and mid-range driver provides 300Wrms (AES standard) power handling and 97dB 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

#### 8 Frequency Response



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.
4. Small signal parameters measured after unit subjected to pre-conditioning signal.

#### General Specifications

Nominal diameter	305mm/12in
Power rating <sup>1</sup>	300Wrms
Sensitivity <sup>2</sup>	97dB
Nominal impedance	8
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 <sup>3</sup>	3.75mm/0.148in
Gap depth	10mm/0.39in
Voice coil winding width	17.5mm/0.69in

#### Small Signal Parameters <sup>4</sup>

D	0.26m/10.24in
Fs	54.8Hz
Mms	56.11g/1.98oz
Qms	3.11
Qes	0.30
Mmd	49.19g/1.74oz
Qts	0.28
Re	5.33 $\Omega$
Vas	59.86lt/2.11ft <sup>3</sup>
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	7.9mm/0.31in
Number of mounting slots	4
Mounting PCD range	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
Multi pack size W x D x H	1008mmx980mmx860mm /39.7in x 38.6in x 33.9in
Multi pack weight	146kg/322lb