

NTR06-1705B

Neodymium magnet cast aluminium chassis driver

General Specifications

Nominal diameter	165mm/6.5in
Power rating ¹	150Wrms
Nominal impedance	8Ω
Sensitivity ²	95dB
Frequency range	150-7000Hz
Voice coil diameter	45mm/1.75in
Chassis type	Cast aluminium
Magnet type	Neodymium
Coil material	Copper clad aluminium
Former material	Polyimide
Cone material	Kevlar loaded paper
Surround material	Cloth-sealed
Suspension	Single
Xmax ³	2.5mm/0.098in
Gap depth	6mm/0.24in
Voice coil winding width	11mm/0.43in

Small Signal Parameters⁴

D	0.13m/5.12in
Fs	109.6Hz
Mms	12.934g/0.457oz
Mmd	12.069g/0.422oz
Qms	2.632
Qes	0.527
Qts	0.439
Re	5.95Ω
Vas	4.06lt/0.14ft ³
Bl	10.03Tm
Cms	0.163mm/N
Rms	3.385kg/s
Le (at 1kHz)	0.24mH

Mounting Information

Overall diameter	Max 189mm/7.44in
	Min 162mm/6.38in
Overall depth	71mm/2.79in
Cut-out diameter	150mm/5.9in
Mounting slot dimensions	6.5mm x 5.5mm/0.26in x 0.22in
Number of mounting slots	4
Mounting slot PCD range	173.5mm/6.83in
Unit weight	0.85kg/1.87lb

Packed Dimensions & Weight

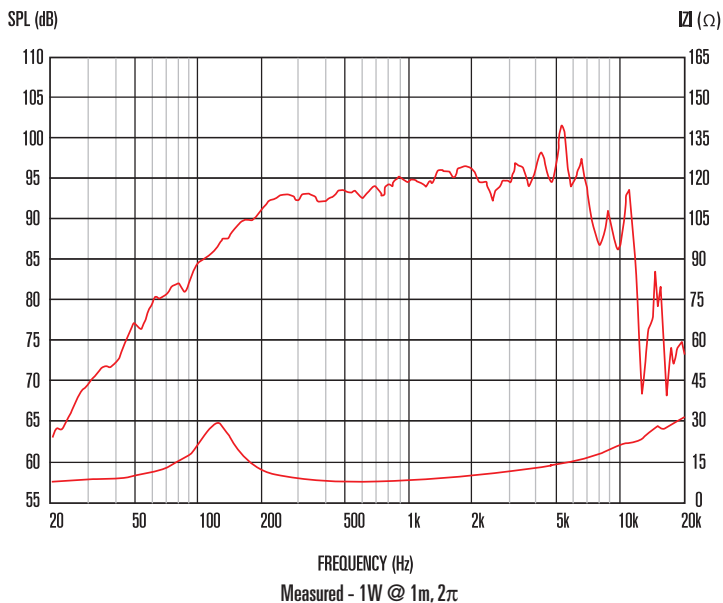
Single pack size W x D x H	190mm x 190mm x 110mm
	7.5in x 7.5in x 4.3in
Single pack weight	1.0kg/2.2lb
Multipack (140) size W x D x H	1070mm x 850mm x 860mm
	42.1in x 33.5in x 33.9in
Multipack (140) weight	140kg/308lb



Features

- 6.5" neodymium magnet mid-range driver providing 150Wrms (AES standard) power handling and 95dB sensitivity
- 1.75" high temperature copper clad aluminium voice coil
- Suitable for line array applications, utilising a space efficient chassis profile
- FEA optimised flux distribution in the magnet assembly provides low harmonic distortion
- "M-Roll" surround provides progressive excursion control, generating a smooth frequency response
- Intelligent heat management in both chassis and magnet assembly design offers reduced thermal distortion

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.