



# NTR06-1705D

Neodymium magnet cast aluminium chassis driver

## General Specifications

Nominal diameter	165mm/6.5in
Power rating <sup>1</sup>	150Wrms
Nominal impedance	8Ω
Sensitivity <sup>2</sup>	90dB
Frequency range	70-7000Hz
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	Elastomer
Suspension	Single
Xmax <sup>3</sup>	4.5mm/0.18in
Gap depth	6mm/0.24in
Voice coil winding width	15mm/0.63in

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

D	0.13m/5.12in
Fs	59.8Hz
Mms	17.52g/0.618oz
Mmd	16.66g/0.588oz
Qms	8.240
Qes	0.446
Qts	0.423
Re	5.22Ω
Vas	10.07lt/0.38ft <sup>3</sup>
Bl	8.79Tm
Cms	0.404mm/N
Rms	0.799kg/s
Le (at 1kHz)	0.17mH

## Mounting Information

Overall diameter	Max 189mm/7.44in
	Min 162mm/6.38in
Overall depth	87mm/3.43in
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	0.95kg/2.09lb

## Packed Dimensions & Weight

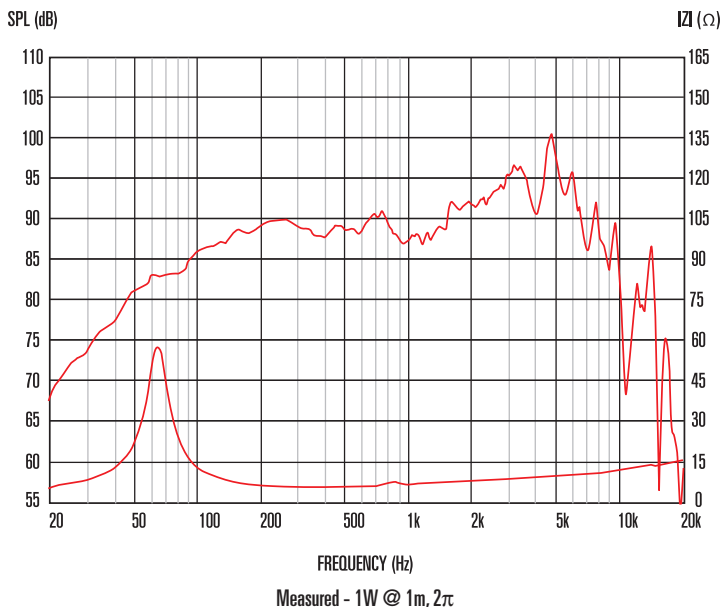
Single pack size W x D x H	190mm x 190mm x 110mm
	7.5in x 7.5in x 4.3in
Single pack weight	1.1kg/2.4lb
Multi pack (120) size W x D x H	1070mm x 850mm x 860mm
	42.1in x 33.5in x 33.9in
Multi pack (120) weight	140kg/308lb



## Features

- 6.5" neodymium magnet woofer providing 150Wrms (AES standard) power handling and 90dB sensitivity
- 1.75" high temperature copper clad aluminium voice coil
- Optimized flux distribution in magnet assembly provides low harmonic distortion
- Half-roll elastomer surround provides greater excursion and improved modal distribution
- Intelligent heat management in both chassis and magnet assembly design offers reduced thermal compression
- Copper sleeved pole reduces inductive rise for improved HF performance
- Space efficient chassis profile

## 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.