



NTR06-1705D

Neodymium magnet aluminium chassis driver

General Specifications

Nominal diameter	165mm/6.5in
Power rating ¹	150Wrms
Nominal impedance	8Ω
Sensitivity ²	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 ³	4.5mm/0.18in
Gap depth	6mm/0.24in
Voice coil winding width	15mm/0.63in

Small Signal Parameters⁴

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 ³
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

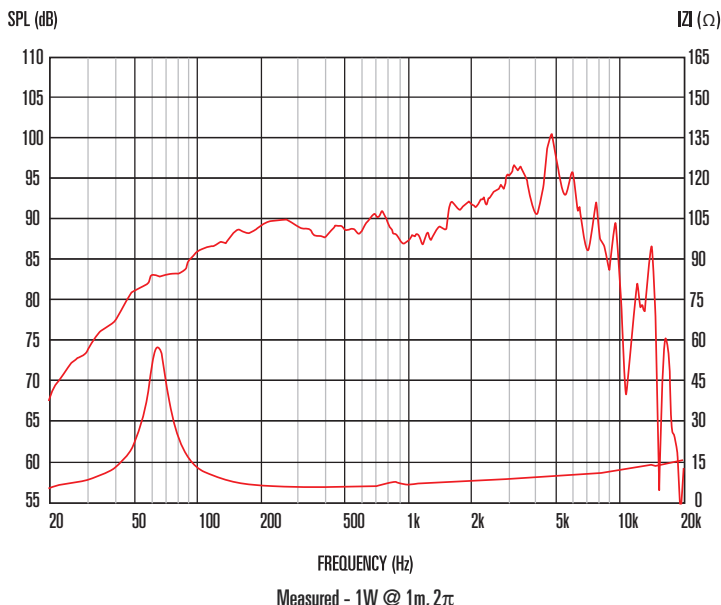
Single pack size W x D x H	190mm x 190mm x 110mm
	7.5in x 7.5in x 4.3in
Single pack weight	1.1kg/2.4lb
Multi pack (120) size W x D x H	1070mm x 850mm x 860mm
	42.1in x 33.5in x 33.9in
Multi pack (120) weight	150kg/330lb



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.