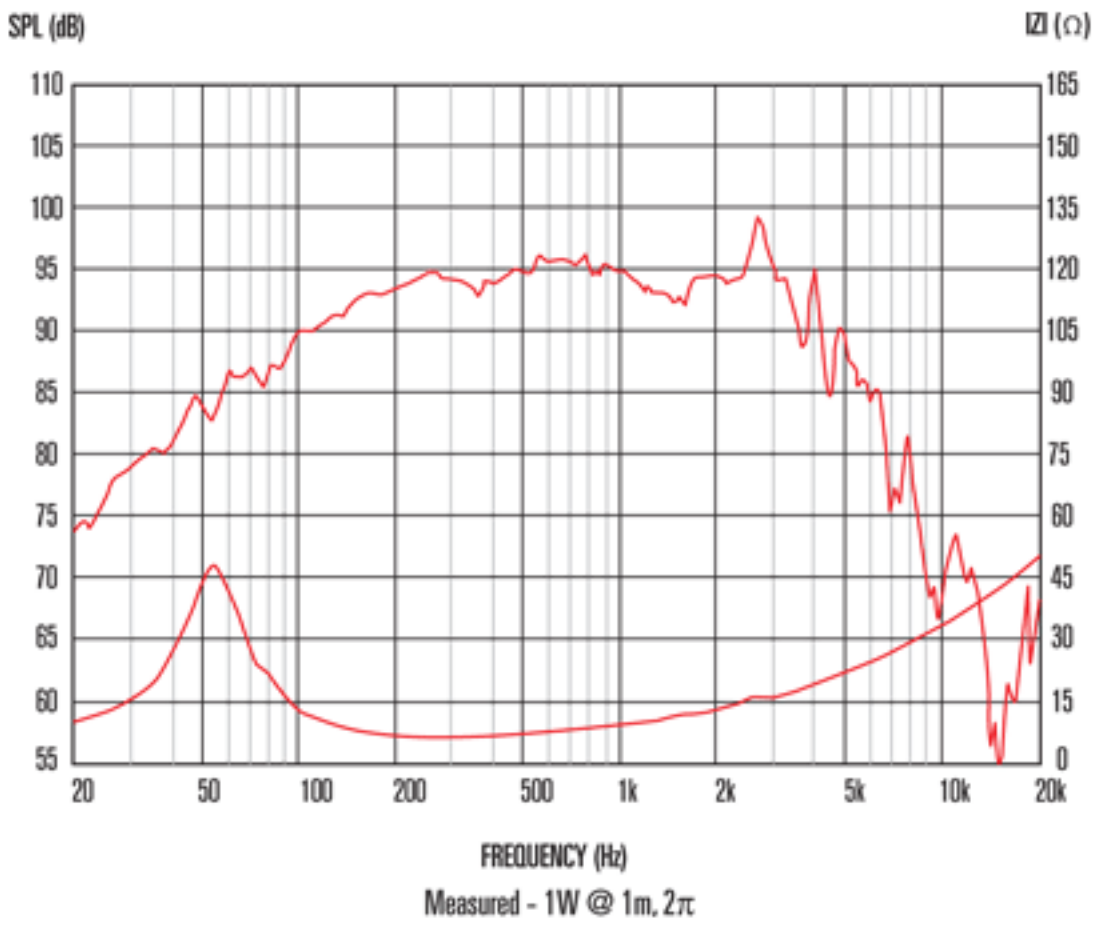
LF Cast Chassis / Neo

NTR10-2520E

Features

- 10" neodymium mid/bass unit offers 250Wrms (AES standard) power handling and 96dB sensitivity
- 2.5" high temperature Inside/Outside voice coil efficiently dissipates heat, preventing sensitivity loss through thermal compression
- "M-Roll" surround provides progressive excursion control, yielding a smooth response even at extremes of frequency range
- Extremely lightweight design combined with a highly efficient magnet assembly results in exceptional power-to-weight ratio
- Intelligent heat management in both chassis and magnet assembly design further minimises distortion

8 Ω 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	254mm/10in
Power rating [1]	250Wrms
Nominal impedance	8 Ω
Sensitivity [2]	96dB
Frequency range	50-3000Hz
Voice coil diameter	64mm/2.5in
Chassis type	Cast aluminium
Magnet type	Neodymium
Coil material	Round copper
Former material	Glass fibre
Cone material	Kevlar loaded paper
Surround material	Cloth-sealed
Suspension	Single
Xmax [3]	5mm/0.20in
Gap depth	8mm/0.32in
Voice coil winding width	17.5mm/0.69in

Small Signal Parameters [4]

D	0.21m/5.33in
Fs	52.4Hz
Mms	46.43g/1.64oz
Mmd	42.79g/1.51oz
Qms	3.008
Qes	0.334
Qts	0.301
Re	5.63 Ω
Vas	33.78lt/1.192ft3
Bl	16.05Tm
Cms	0.199mm/N
Rms	5.078kg/s
Le (at 1kHz)	0.71mH

Mounting Information

Diameter	260mm/10.24in
Overall depth	113mm/4.45in
Cut-out diameter	232mm/9.13in
Mounting slot dimensions	7.5mm x 6.5mm/0.3in x 0.26in
Number of mounting slots	4
Mounting PCD range	244-247mm/9.6-9.7in
Unit weight	2.2kg/4.89lb

Packed Dimensions & Weight

Single pack size W x D x H	305mm x 305mm x 150mm /12.0in x 12.0in x 5.9in
Single pack weight	2.5kg/5.5lb
Multipack (96) size W x D x H	1500mmx1000mmx980mm /59.1in x 39.4in x 38.8in
Multi pack (96) weight	235kg/518lb

Celestion, Claydon Business Park, Great Blakenham, Ipswich, IP6 0NL United Kingdom