

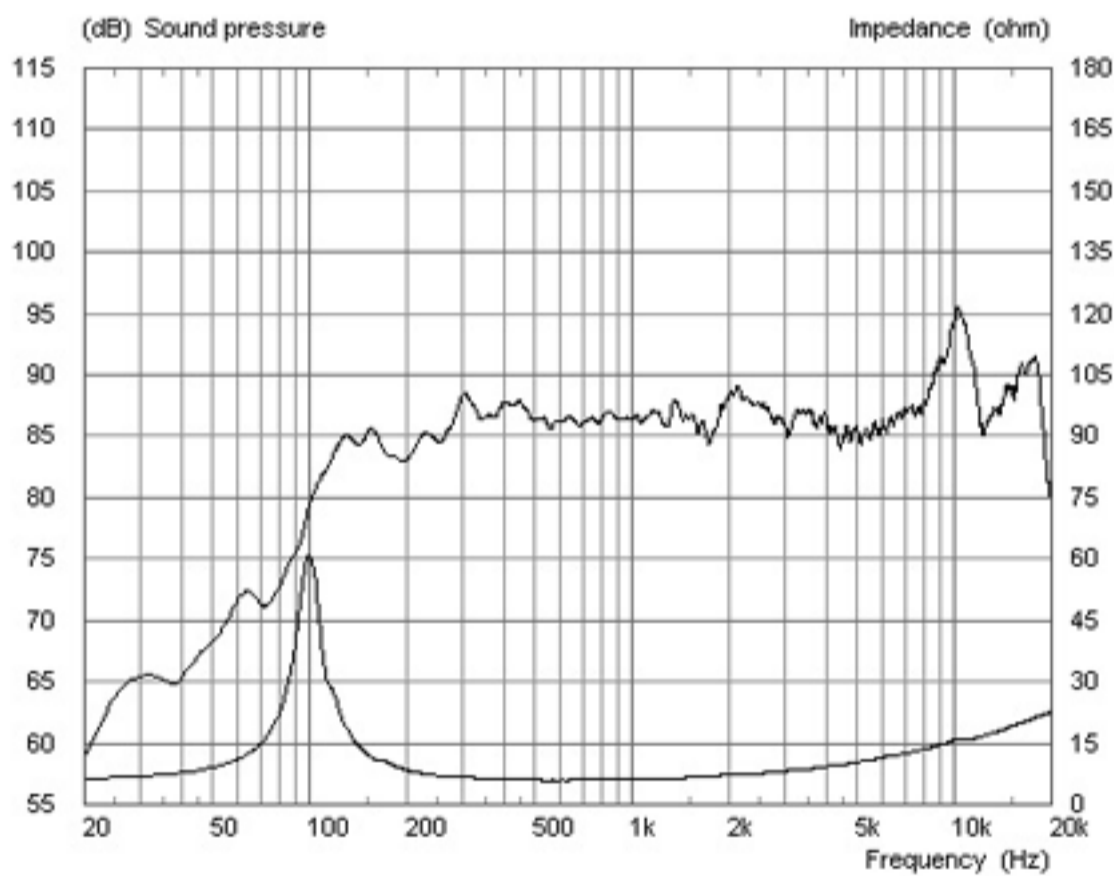
### AN3510



#### Features

- Compact and lightweight, full-range neodymium loudspeakers
- Advanced Finite Element Analysis techniques used for acoustic, mechanical and electromagnetic modelling
- Ideal for applications such as portable line arrays where actively controlled wavefront (beam steering) is used
- Delivers wider dispersion to higher frequencies than many equivalent compact, full-range drivers on the market
- Chassis purpose-designed for maximum free air movement, with square mounting frame to facilitate close coupling of multiple units
- Stiff and light aluminium cone remains rigid to higher frequencies, delivering a smoother response in the critical listening band
- Half roll elastomer surround provides damping for unwanted resonances and sustained centring control at extremes of excursion
- Designed to be weather resistant for outdoor applications

#### 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.

#### General Specifications

Nominal diameter	3.5"/88mm
Power rating <sup>1</sup>	35Wrms
Nominal impedance	8
Sensitivity <sup>2</sup>	87dB
Frequency range	98Hz-18.5kHz
Voice coil diameter	25mm/1.0in
Chassis type	Glass reinforced ABS
Magnet type	Neodymium
Coil material	Round Copper
Former material	Polyimide
Cone material	Aluminium
Surround material	Elastomer
Xmax <sup>3</sup>	1.25mm/0.04in
Gap depth	4mm/0.14in
Voice coil winding width	6.5mm/0.23in
Voice coil material	Round Copper
Voice coil former material	Polyimide
Bandwidth	125Hz-20kHz

#### Small Signal Parameters

Sd	38.48cm <sup>2</sup> /5.98in <sup>2</sup>
Fs	98Hz
Mms	3.37g/0.12oz
Qms	6.59
Qes	0.66
Qts	0.67
Re	5.73
Vas	1.3lt/0.046ft <sup>3</sup>
Bl	4.5
Cms	0.62mm/N
D	70mm/2.76in

#### Mounting Information

Overall depth	2"/50mm
Overall size	3.52" x 3.52"/89.3 x 89.3mm
Cut-out diameter	3.1"/78.8mm
Fitting	4 x M4 holes
Mounting PCD range	Ø4.1"/104mm
Unit weight	160g/5.65oz