CELESTION

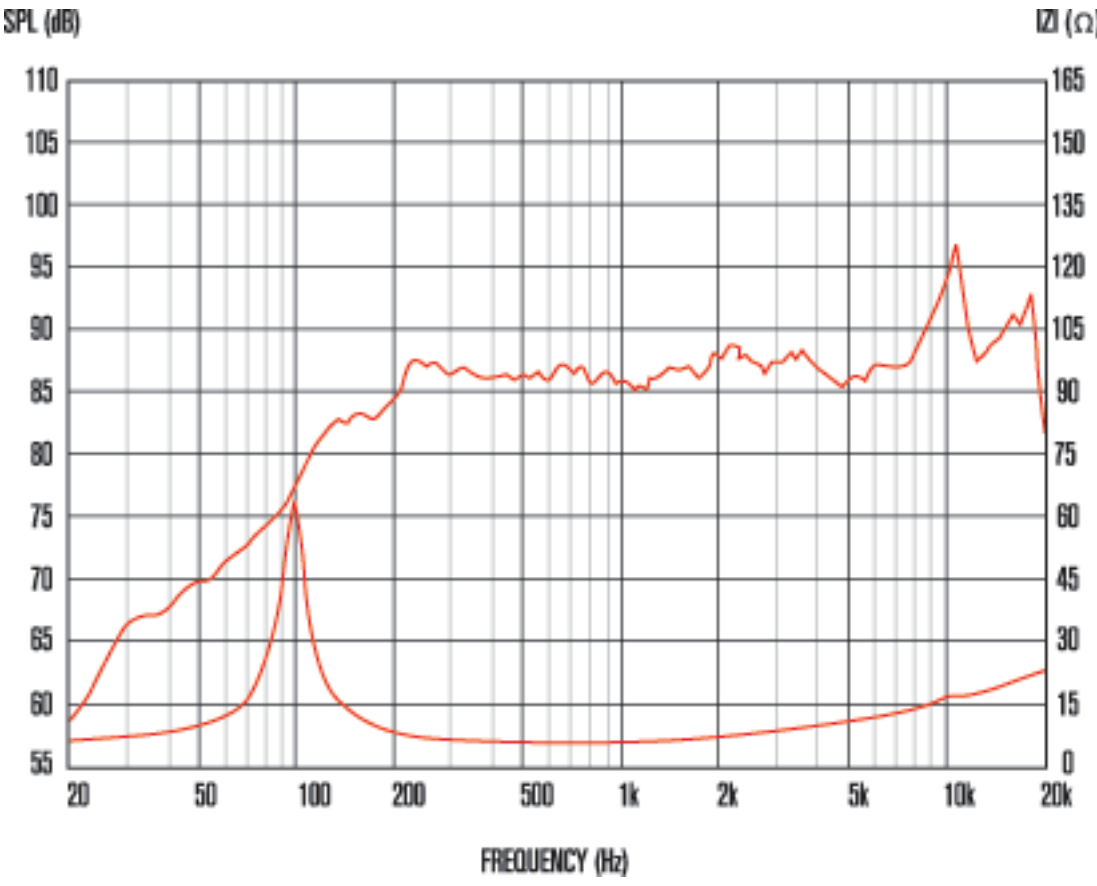
Compact Array

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 Ω Frequency Response



General Specifications

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

Small Signal Parameters

Sd	38.48cm2/5.98in2
D	70mm/2.76in
Fs	98Hz
Mms	3.37g/0.12oz
Qms	6.59
Qes	0.66
Qts	0.67
Re	5.73Ω
Vas	1.3lt/0.046ft3
Bl	4.5Tm
Cms	0.62mm/N

Mounting Information

Overall depth	50mm/2in
Overall size	89.3 x 89.3mm/3.52in x 3.52in
Cut-out diameter	78.8mm/3.1in
Fitting	4 x M4 holes
Mounting PCD range	Ø104mm/4.1in
Unit weight	160g/5.65oz

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.

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