



#### LINE ARRAY DRIVER

### **KEY FEATURES**

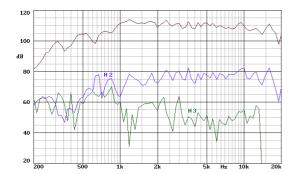
- Wave guide fulfilling requirements for Line Array applications.
- 5" x 1" rectangular exit
- Neodymium magnetic circuit for high efficiency.
- Effective acoustical coupling up to 16 kHz.
- True 108 dB sensitivity 1w @ 1m (averaged 1-7 kHz).
- 0.8 kHz minimum recommended crossover frequency.
- 3" voice coil for superior power handling (70 w AES).



#### GENERAL DESCRIPTION

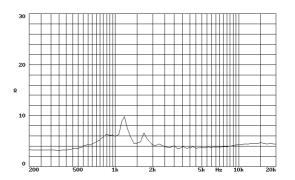
This combination of high power neodymium compression driver with wave guide gives a straightforward solution to build a Line Array System, solving the difficult problem of achieving an optimum coupling between adjacent high frequency transducers. Instead of using expensive and complicated wave-shaping devices, a simple but effective wave guide transforms the circular aperture of the compression driver into a rectangular surface, without excessive angle aperture to provide low curvature to the acoustic wavefront, arriving to fulfill the curvature requirement for optimal acoustic coupling between adjacent sources until 16 kHz. This is achieved with the minimum possible length for low distortion, but without being excessively short, which would cause strong high frequency interferences. The 3" diameter voice coil and diaphragm construction allows a low cross-over frequency. This makes this solution adequate for use with 5", 6.5", 8" and 10" speaker sizes, facilitating the high frequency requirements of the Line Array mid band speakers.

#### FREQUENCY RESPONSE AND DISTORTION CURVES

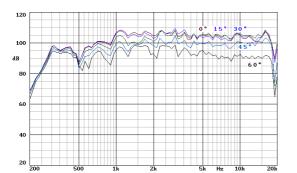


Note: on axis frequency response measured with two waveguides coupled to a 90° x 5° horn in anechoic chamber, 1w @ 1m.

#### FREE AIR IMPEDANCE CURVE



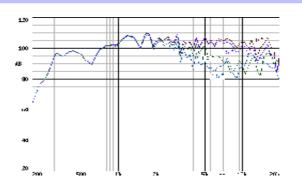
#### HORIZONTAL DISPERSION



Notes: dispersion measured with two waveguides coupled to a 90° x 5° horn in anechoic chamber, 1w @ 2m.

All angle measurements are from the axis (45º means ±45º)

#### VERTICAL DISPERSION



Notes: dispersion measured with two waveguides coupled to a 90° x 5° horn in anechoic chamber, 1w @ 2m.

All angle measurements are from the axis (45° means ±45°)





## LINE ARRAY DRIVER

## TECHNICAL SPECIFICATIONS

Throat diameter 36 mm. 1.4 in.

Rated impedance 8 ohms.

Minimum impedance 7.2 ohms. @ 3 kHz

D.C. Resistance 5.5 ohms.

Power capacity \* 50 w AES above 0.8 kHz

70 w AES above 1.5 kHz

Program power 100 w above 0.8 kHz

## 100 w above 0.8 kHz 140 w above 1.5 kHz **Sensitivity** \*\* 108 dB 1 w @ 1m

coupled to TD-385 horn

Frequency range

Recommended crossover
Voice coil diameter

Magnetic assembly weight
Flux density

9.06 - 20 kHz
800 Hz or higher (12 dB/oct. min.)
72.2 mm. 2.87 in.
2.1 kg. 4.62 lb.
800 Hz or higher (12 dB/oct. min.)
72.2 mm. 2.87 in.
72.1 kg. 4.62 lb.
11 N/A

#### **MOUNTING INFORMATION**

 Overall diameter
 123 mm. 4.84 in.

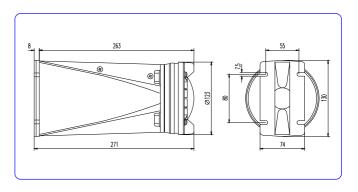
 Depth
 271 mm. 10.67 in.

 Mounting
 Four 7.5 mm. diameter holes

 Net weight (1 unit)
 2.62 kg. 5.76 lb.

 Shipping weight (2 units)
 5.65 kg. 12.43 lb.

## **DIMENSION DRAWINGS**



#### Notes:

- \*The power capacity is determined according to AES2-1984 (r2003) standard.
- Program power is defined as the transducer's ability to handle normal music program material.

  \*\*Sensitivity was measured at 1 m distance, on axis, with 1 w input, averaged in the range 1-7 kHz.

# MATERIALS

- Waveguide: synthetic resin.
- Driver diaphragm: titanium.
- Driver voice coil: edgewound aluminium ribbon wire.
- Driver voice coil former: kapton.
- Driver magnet: neodymium.

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