

# 15P80/Nd

### LOW FREQUENCY TRANSDUCER

### KEY FEATURES

- 800 w AES power handling
- Sensitivity: 100 dB @ 2.83v
- 4" duo technology voice coil
- Forced air convection circuit for low power compression
- Extended controlled displacement: Xmax ± 7.5mm
- Massive mechanical displacement capability: 52 mm p-p

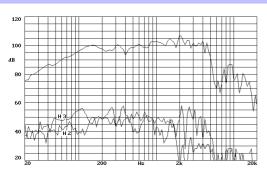
### TECHNICAL SPECIFICATIONS

**Nominal diameter** 380 mm. 15 in. Rated impedance 8 ohms Minimum impedance 6.1 ohms Power capacity\* 800 w AES Program power 1600 w 100 dB 2.83v @ 1m @ 2π Sensitivity Frequency range 25 - 4000 Hz 40 / 150 I 1.4 / 5.3 ft.3 Recom. enclosure vol. Voice coil diameter 100 mm. 4 in. Magnetic assembly weight 4.62 kg 10.16 lb. **BL** factor 22.8 N/A Moving mass 0.105 kg. Voice coil length 20 mm Air gap height 12 mm X damage (peak to peak) 52 mm

### THIELE-SMALL PARAMETERS\*\*

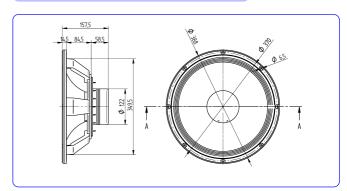
| 54 Hz                 |
|-----------------------|
| 5.3 ohms.             |
| 7.95                  |
| 0.36                  |
| 0.34                  |
| 90.43 I               |
| 83.6 <b>µ</b> m / N   |
| 4.45 kg / s           |
| 3.8                   |
| 0.0880 m <sup>2</sup> |
| 7.5 mm                |
| 660 cm <sup>3</sup>   |
| 1.6 mH                |
|                       |

### FREQUENCY RESPONSE AND DISTORTION



Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber. 1w @ 1m.

### DIMENSION DRAWINGS



### MOUNTING INFORMATION

Overall diameter 388 mm. 15.28 in.
Bolt circle diameter 370 mm. 14.57 in.
Baffle cutout diameter:
- Front mount 349.5 mm. 13.76 in.

- Front mount
- Rear mount
Depth
Volume displaced by driver
Net weight
Shipping weight

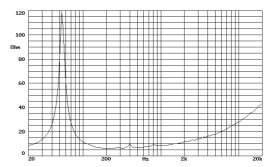
355 mm. 13.98 in. 157.5 mm. 6.2 in. 5.5 | 0.19 ft.<sub>3</sub> 6 kg. 13.3 lb. 6.5 kg. 14.3 lb.

### 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 mater

### FREE AIR IMPEDANCE CURVE



## beyma //

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 $<sup>{}^{\</sup>star\star}\text{T-S parameters are measured after an exercise period using a preconditioning power test.}$ 

<sup>\*\*\*</sup>The Xmax is calculated as (Lvc - Hag)/2 + Hag/3.5, where Lvc is the voice coil length and Hag is the air gap height.