





FEATURES

- » Low frequency 15" cone loudspeaker
- » 800 W program power handling
- » 3" voice coil
- » Ceramic magnetic structure
- » Centre pole piece convection cooling

SPECIFICATIONS

AES RMS (Average) Power Handling[®]: 400 W

Program Power Handling^r: 800 W Peak Power Handling^k: 1600 W

Sensitivity: 96.5 dB SPL, 1W/1m

Nominal Impedance: 8 Ω

Nominal Frequency Range: 40 Hz - 3 kHz

Voice Coil: Cu

Voice Coil Diameter: 77 mm (3 in)

Cooling: Pole piece

Frame: Cast aluminium
Spider: Single

Diaphragm: Curved

Magnetics: Anisotropic Barium Ferrite

Flux Density: 1.05 T

Input Connection: Push terminals, 4 mm diameter
Positive voltage to red terminal m

olarity: Positive voltage to red terminal moves diaphragm forward

Recommended Baffle Cutout Diameter: 359 mm

Weight: 6.0 kg

(2.7 lbs) 7.0 kg

Shipping Weight: 7.0 kg

(3.2 lbs)

DESCRIPTION

The D.A.S. 15P is a high efficiency 15" diameter cone loudspeaker with 3" diameter voice coil.

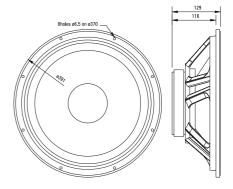
It features centre pole piece convection cooling to provide high power handling and low power compression.

Exclusive curing techniques are utilized to create an indestructible bond between the copper voice coil and its fibre-glass based support.

The computer designed injected aluminium basket supplies rigidity and mechanical grounding.

APPLICATIONS

Woofer. Suitable for full range medium power enclosures, MI enclosures.



ALL DIMENSIONS IN MILIMETERS



Based on a 2 hour test continuously applying 6 dB crest factor pink noise bandlimited to 50-500 Hz.

Conventionally 3 dB higher than the average measure.
K Corresponds to the signal crests for the test described in R.

Frequency Response

Figure 1 shows the on-axis (black) and 45degree (grey) frequency response at 1 m of a unit flush on a measurement baffle and radiating to an anechoic environment and driven by a 2.83 V swept sine signal.

Impedance

Figure 2 shows impedance with frequency of a unit suspended in free air.

Distortion

Figure 3 shows the Second Harmonic Distortion (grey) and Third Harmonic Distortion (dotted) curves for unit mounted on the measurement baffle and driven at 10% of its power handling.

NOTES. 1.Frequency response: referred to 1 m; low-end obtained through the use of near field techniques; the large measurement baffle provides results akin to mounting the speaker in a diffraction free closed box with internal volume of 320 litres or larger. 2.In practice, cable and connector impedance need to be added. 3.Harmonic distortion components are not plotted beyond 20 kHz

Product improvement through research and development is a continuous process at D.A.S. Audio. All specifications subject to change without notice.

THIELE-SMALL PARAMETERS

Small-Signal

F_s: 40 Hz **0**_{ts}: 0.419 **Q**es: 0.447 Oms: 6.853

η₀: 3.34 % Vas: 233 litres

 R_e : 6.4 Ω **S_D:** 0.086 m²

(Preconditioning: 1 hour, AES power test at -3dB rated power)

Large-Signal

X_{max}: 6 mm (0-pk)^{xM} V_D: 0.4945 dm³ (0-pk)

 $^{\rm XM}$ Calculated as $({\rm H_{vc}}{
m -}{\rm H_{ag}})/2 + {\rm H_{ag}}/4$

ADDITIONAL DATA

Effective piston diameter: 331 mm

M_{ms}: 70 gr C_{ms}: 222 mm/N

Voice coil diameter: 77 mm

Voice coil winding depth, H_{vc}: 15 mm

Voice coil length: 21.8 m

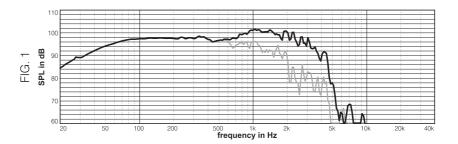
Top plate thickness at voice coil, H_{aq}: 7 mm

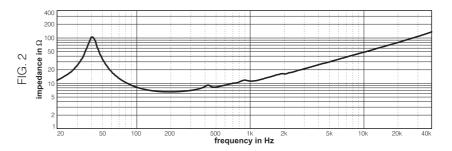
Displacement limit: 22 mm (pk-pk) Minimum impedance: 6.5Ω at 197 Hz

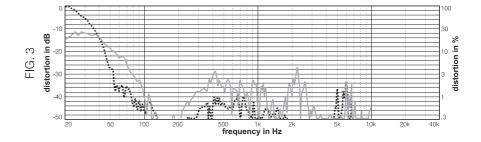
BL: 15.9 T.m

Spider suspension: polycotton Surround suspension: polycotton Voice coil support: GFRP (glass fibre

reinforced polymer)







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