

LA PASSION DU HAUT-PARLEUF

## HM130Z0

MIDRANGE

## 5<sup>1/4</sup>" - HD-A CONE DRIVER - 130 mm

## PRESTIGE SERIES

HD-A (High Definition Aeroge) cone Non resonant die cast chassis Ventilated chassis under spider High loss rubber suspension Edgewound, flat copper wire Kapton Voice Coil Former High loss phase plug Gold plated terminals

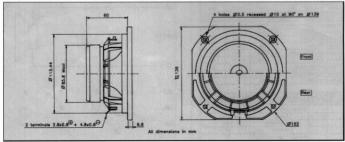
Cône Haute Définition Aérogel (HD-A) Châssis Zamak moulé non résonant Fond ventilé Suspension caoutchouc amortissant Bobine sur support Kapton El cuivre plat sur chant Ogive non résonante Connectioue olaquée or



HD-A\*\* represents a true breakfrough in loudpeaker cone technology, supassing all conventional materials being used today. Through an extraordinary combination of newly developed materials and processes, Audas has created an innovaline composite membrane whose properties are very close todal for maining loudpeaker diaphargms. Uhai alphi, externely right and maximized internal famigine. This no components can be abled on a todal locational diapharges that alpha the sale and a todal locational and the proceeding and the sale and todal location and explain these are embedded. An exclusive, proprietary process acts to perietch align the links along the polymer chain. The procedure allows that control over the contour and weight of the coces, while maining a tpossible to vary the thickness of the membrane along the profits. The 514<sup>th</sup> Middange driver was designed for top range, no compromise high end 3 or 4-way systems. It features a die cast Zamak chasis with unobstructed venting for

enhanced transient response and a non-resonant phase plug for high end frequency equalization. High power handling results from the flat, edgewoand copper coll mounted onto a liberglass reinforced Kapton voice coll former. Unequaled definition is achieved over a wide spectrum of frequencies and dvamic ranges while retaining a neutral total balance with precise and detailed imaging. A crossover design is suggested in Fig. 1 and corresponding chart for matching this driver with a woofer in our line is provided. Easily coupled with *Pacific Easily Coupled with Pacific Easily Coupled with Pacific Easily Coupled with Pacific Easily Coupled with Coupler Coupler Coupled Coupler Couple* 

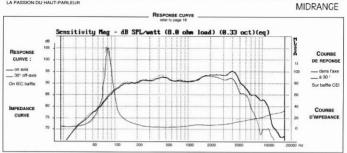
Le cone HD-4\*\* constitue une vértuble precéte technologique dans ce domaine, surpasant trous les matériaus connes à ce jour. Par ure extraordinaire association d'une novelle matéries et dun precéde original, Audas a cé due membrane composite, innovation de las proprietés our procethe de l'idéal pour un transductar à auditann d'une transfer de l'actar de la precéde original, Audas a cé due membrane composite, innovation d'une proprietés our procethe de l'idéal pour un transductar à auditann d'une transfer de la precéde original, audas a cé due membrane composite, innovation de las proprietés not procethe de l'idéal pour un transductar à auditann un combite kall due provide l'actavitat la possibilité de lans varier l'équasanes à chaque endrot. Ce médium de 130 mm est destante à des systemes 1 ou a voise de prostige. Il est équipé d'un chàsis Zamak moulé à ioné variel équasanes à chaque endrot. Ce médium de 130 mm est destante à des systemes 1 au ornorité kall due l'anait da spectre. Sa home lenve en pusaisme residue de l'unition d'une home sursupport tégnome entransfilter de verse et la due cuivre plat au charut, la connectique plaque or permet une excellente soudabilité. L'in shéma de little pass-bas est proprior l'en 1 pour un naccordente adue donne entore filter de verse ento entore site. Il post et mit de assert as l'actavite plat aux worders donne entore discute plat aux worders donne entore discute al da surse constitue et d'une optimie aux worders de norte seite. Il post et efficie aux sector donne (12 dRoct) seiton le stema F ja L. Dans et membrane companya adue particular et adue partes. Esta de spectres adue partes adue partes adue partes adue adue adue trans entore plane adue partes adue et la da sector donne de tam fait a la carte plat aux moders de nortes esti-li post et efficiences de coupares aux proposé find d'adue na la trans en plassa adue don do



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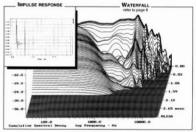
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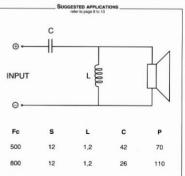
LA PASSION DU HAUT-PARLEUR



| SPECIF                           | ICATIO  | NS          |                  |
|----------------------------------|---------|-------------|------------------|
| <b>Technical Characteristics</b> | Symbol  | Value       | Units            |
| PRIMARY A                        | APPLICA | TION        | 1. 1. 1. 1. I.   |
| Nominal Impedance                | Z       | 8           | Ω                |
| Resonance Frequency              | Fs      | 68          | Hz               |
| Nominal Power Handling           | P       | 50          | w                |
| Sensitivity                      | E       | 92          | dB               |
| VOIC                             | ECOIL   | 12. 1. 3. 3 | THE IS           |
| Voice coil diameter              | Ø       | 25          | mm               |
| Minimum Impedance                | Zmin    | 6,7         | Ω                |
| DC Resistance                    | Re      | 6,4         | Ω                |
| Voice Coil Inductance            | Lbm     | 0.22        | mH               |
| Voice coil Length                | h       | 9           | mm               |
| Former                           |         | Kapton      |                  |
| Number of layers                 | n       | 1           | -                |
| MA                               | GNET    |             | 3 4 2 3          |
| Magnet dimensions                | Øxh     | 84x15       | mm               |
| Magnet weight                    | m       | 0,35        | kg               |
| Flux density                     | В       | 1,1         | T                |
| Force factor                     | BL      | 7,1         | NA <sup>-1</sup> |
| Height of magnetic gap           | He      | 5           | mm               |
| Stray flux                       | Fmag    | •           | Am <sup>1</sup>  |
| Linear excursion                 | Xmax    | ±2          | mm               |
| PARA                             | METERS  | STEW ST     | 1221             |
| Suspension Compliance            | Cms     | 0,92.10°    | mN <sup>-1</sup> |
| Mechanical Q Factor              | Qms     | 12.16       | -                |
| Electrical Q Factor              | Qes     | 0.32        |                  |
| Total Q Factor                   | Qts     | 0,31        | -                |
| Mechanical Resistance            | Rms     | 0,21        | kg s*            |
| Moving Mass                      | Mms     | 5,9.103     | kg               |
| Effective Piston Area            | S       | 0.8.10*     | m <sup>2</sup>   |
| Volume Equivalent of Air at Cas  | Vas     | 8,3.10°     | m <sup>a</sup>   |
| Mass of speaker                  | M       | 1,1         | kg               |

| AF | APPLICATION PARAMETERS |           |  |  |
|----|------------------------|-----------|--|--|
| Fc | Crossover Frequency    | Hz        |  |  |
| S  | Slope                  | dB / Oct. |  |  |
| L  | Self-inductance        | mH        |  |  |
| С  | Capacitor              | μF        |  |  |
| P  | Nominal Power Handling | W         |  |  |





Please refer to method of measurement and measurement conditions pages 15 to 19 Audax may, without prior notification modify the specifications on its products further to research and development requirements.