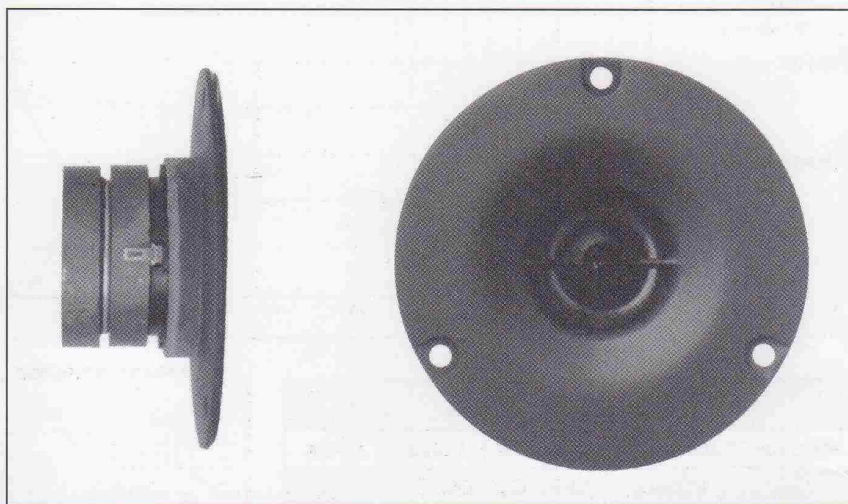


14 mm SHIELDED POLYMER DOME

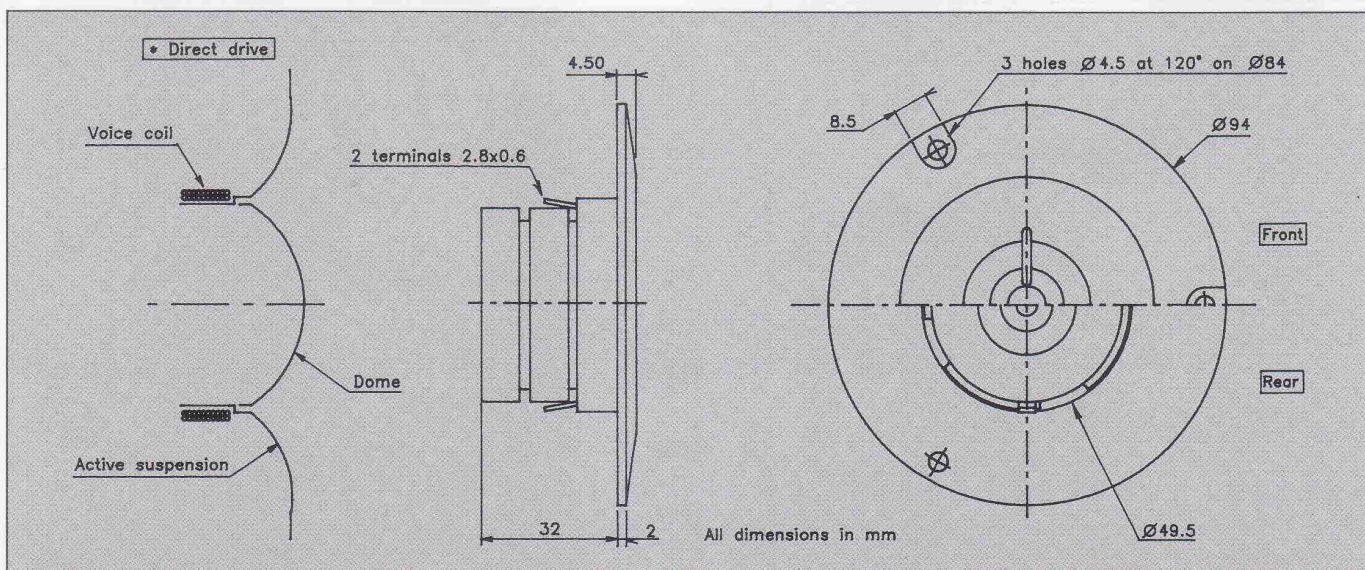
97 dB ultra high efficiency *direct drive**
 Professional application
 Ferrofluid - cooled voice coil
 High power handling capability
 High dynamic characteristics
 Double magnet structure

Application professionnelle
 Concept *direct drive**
 Très haut rendement - 97 dB
 Bobine refroidie par ferrofluide
 Puissance admissible importante
 Grande capacité dynamique



The optimized profile of its horn load coupled with a double magnet system makes it suitable for professional use. Compact, 14 mm polymer dome tweeter. Ultra light* moving parts with the voice coil directly wound onto the diaphragm according to the "direct drive" concept. The perfect transfer of energy is the source of its musical qualities, high definition and ultra high efficiency. The voice coil wound onto the high temperature polymer is cooled with ferrofluid for high power handling. A double magnet system makes it ideally suited for audio-video and multi-media systems. Easily coupled with 2nd order crossover as shown Fig 1. Two crossover points are suggested for adequate power handling.

Le profil optimisé du pavillon associé au système magnétique double ferrite situe ce dôme de 14 mm dans la catégorie des utilisations professionnelles. Il doit la légèreté de son équipement mobile à son concept "direct drive" par lequel la bobine est réalisée directement sur le diaphragme. Le parfait transfert d'énergie est à l'origine de ses qualités musicales, de sa haute définition et de son haut rendement. Le concept "direct drive" couplé à la bobine refroidie par ferrofluide lui confère une puissance admissible importante dans sa catégorie. Doté d'une contre-ferrite (applications audio/vidéo) la concentration du champ magnétique augmente sensiblement son rendement. Il peut être filtré au second ordre (12 dB/Oct) selon le schéma Fig 1. Deux fréquences de coupure sont proposées afin d'obtenir la tenue en puissance adéquate.



RESPONSE CURVE

refer to page 16



SPECIFICATIONS

| Technical Characteristics | Symbol | Value | Units |
|---------------------------------|--------|-----------------------|--------------------|
| PRIMARY APPLICATION | | | |
| Nominal Impedance | Z | 8 | Ω |
| Resonance Frequency | Fs | 2050 | Hz |
| Nominal Power Handling | P | 45 | W |
| Sensitivity | E | 97 | dB |
| VOICE COIL | | | |
| Voice coil diameter | ∅ | 14 | mm |
| Minimum Impedance | Zmin | 7,2 | Ω |
| DC Resistance | Re | 5,7 | Ω |
| Voice Coil Inductance | Lbm | 34 | μH |
| Voice coil Length | h | 2 | mm |
| Former | - | Polymer | - |
| Number of layers | n | 2 | - |
| MAGNET | | | |
| Magnet dimensions | ∅ x h | 2 (45 x 9) | mm |
| Magnet weight | m | 0,106 | kg |
| Flux density | B | 1,8 | T |
| Force factor | BL | 2,4 | NA ⁻¹ |
| Height of magnetic gap | He | 1,5 | mm |
| Stray flux | Fmag | 30 | Am ⁻¹ |
| Linear excursion | Xmax | ±0,25 | mm |
| PARAMETERS | | | |
| Suspension Compliance | Cms | - | mN ⁻¹ |
| Mechanical Q Factor | Qms | - | - |
| Electrical Q Factor | Qes | - | - |
| Total Q Factor | Qts | - | - |
| Mechanical Resistance | Rms | - | kg s ⁻¹ |
| Moving Mass | Mms | 0,19.10 ⁻³ | kg |
| Effective Piston Area | S | 6,6.10 ⁻⁴ | m ² |
| Volume Equivalent of Air at Gas | Vas | - | m ³ |
| Mass of speaker | M | 0,17 | kg |

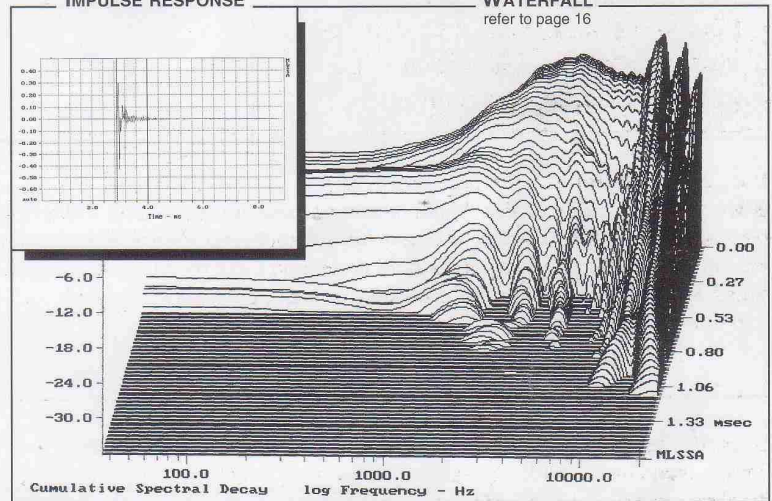
APPLICATION PARAMETERS

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

IMPULSE RESPONSE

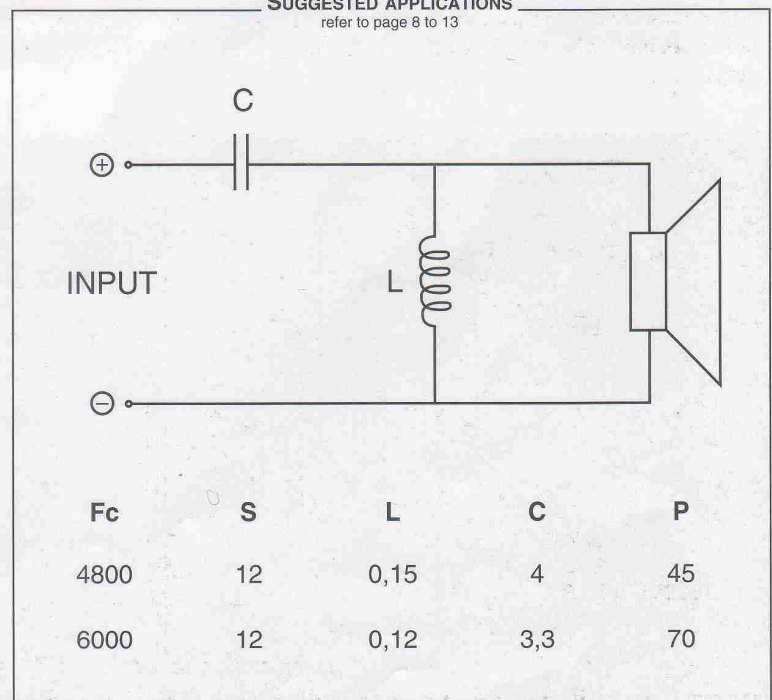
WATERFALL

refer to page 16



SUGGESTED APPLICATIONS

refer to page 8 to 13



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.