1"- SOFT DOME - 25 mm

*Catenary* profile
Extended frequency response
Replaceable voice coil assembly
1" impregnated textile dome
Solid aluminium face plate
Ferrofluid cooled voice coil

Dôme profil "chainette"
Bande passante exceptionnelle
Equipage mobile interchangeable
Dôme 25 mm textile
Face aluminium massif
Bobine refroidie par ferrofluide

The “catenary” profile on our textile diaphragm provides maximum stiffness at the tip of the dome. The moving mass performs more like a perfect piston with no out of phase break up at the tip. The results are clear, smooth and transparent sound reproduction with 88 dB efficiency from 2 kHz to 20 kHz ± 2 dB and high power handling capacity of 70 Wrms. Easily coupled with 2nd order crossover as shown Fig 1. Two crossover points are suggested for adequate power handling.

Le profil "chainette" de ce dôme textile procure une rigidité maximale au sommet du dôme. L’ensemble mobile a donc un comportement proche du piston parfait, sans génération de modes parasites. Il en résulte une reproduction sonore claire, délicate et transparente. Le rendement est de 88 dB de 4 kHz à 20 kHz ± 2 dB, la tenue en puissance importante (70 W rms). Il peut être filtré au second ordre 112 dB/Oct selon le schéma Fig 1. Deux fréquences de coupure sont proposées afin d’obtenir la tenue en puissance adéquate.
AUDAX
LA PASSION DU HAUT-PARLEUR

TW025K3
TWEETER

RESPONSE CURVE
refer to page 15

Sensitivity Mag - dB SPL/watt (8.8 ohm load) (0.16 oct) (eq)

IMPEDEANCE CURVE

On axis
30° off-axis
On IEC baffle

92
90
88
86
84
82
80
78
76

RESPONSE CURVE:

COURBE DE REPONSE

COURBE D'IMPEDEANCE

SPECIFICATIONS

Technical Characteristics | Symbol | Value | Units
--- | --- | --- | ---
Nominal Impedance | Z | 8 | Ω
Resonance Frequency | Fr | 1200 | Hz
Nominal Power Handling | P | 70 | W
Sensitivity | E | 88 | dB

VOICE COIL

Voice coil diameter | Ø | 25 | mm
Minimum Impedance | Zmin | 6.6 | Ω
DC Resistance | Rdc | 5.8 | Ω
Voice coil inductance | Lvc | 10 | μH
Voice coil length | hvc | 1.6 | mm
Former | - | Aluminium | -
Number of layers | n | 2 | -

MAGNET

Magnet dimensions | Φ x h | 60 x 10 | mm
Magnet weight | m | 0.104 | kg
Flux density | B | 1.2 | T
Force factor | BL | 2.3 | NA
Height of magnetic gap | Hg | 3 | mm
Stray flux | Fmag | 43 | Am²
Linear excursion | Xmax | 10.3 | mm

PARAMETERS

Suspension Compliance | Cs | - | mN/m
Mechanical Q Factor | Qms | - | -
Electrical Q Factor | Qel | - | -
Total Q Factor | Q | - | -
Mechanical Resistance | Rms | - | kg s²
Moving Mass | Mms | 0.29 | 10⁻³ | kg
Effective Piston Area | S | 6.2 | 10⁻³ | m²
Volume Equivalent of Air at Cas | Vca | - | m³
Mass of speaker | M | 0.260 | kg

APPLICATION PARAMETERS

Fc | Crossover Frequency | Hz
--- | --- | ---
2500 | 12 | 0.36 | 6.6 | 70
4000 | 12 | 0.15 | 5.5 | 120

Please refer to method of measurement and measurement conditions pages 15 to 19.

Audax reserves the right to modify the specifications of its products further to research and development requirements.