



MARKAUDI

Alpair 5 Gen. 2

The Alpair 5 Generation 2 is a pure *Free-to-air* Single Suspension Full-Range audio driver. This new Alpair 5 is more advanced than its first generation version. The new 5 operates only using its all-new single front suspension.

This design retains designer Mark Fenlon's classical mechanical engineering approach to reduce mass and extend long throw operating capacity. Mark, along with Evan Yu and the engineering team spent several months of research removing mechanical restriction from the ultra thin coil body. Traditional driver designs use a "spider", a suspension device located behind the driver's cone. Bonded to the coil, it physically restricts a coils ability to transfer mechanical-acoustic signals to the cone. Some other drivers use damping fluid, springs or other devices, all of which produce losses. This new Alpair 5 design completely removes all these restrictions; Its coil locates cleanly between the driver's cone and motor sub-assembly, making the new 5 a pure *free-to-air* mechanical design.

The accuracy requirement for the Alpair 5 component design, engineering and detailed assembly goes well beyond typical commercial audio-driver manufacturing. The front suspension operating tolerance is measured in milli-newtons. Production Alpair 5 drivers are within +/- 2.5Hz @ F Zero. All new 5's are then pair matched to with +/- 1Hz @ F Zero.



The result is a detailed balanced sound representation across an ultra wide frequency band for this class of small driver. A typical box bass-reflex box application with an internal volume of 3 litres can be port tuned to below 80Hz while the driver retains is high range output up to 25kHz. The outcome is a very easy to use versatile driver suitable for many smaller applications where higher-end sound quality is desired from a mini-sized audio driver.





Revc= 3.600 Ohm Fo= 101.220 Hz Sd= 28.270 cm² Vas= 1.324 Ltr Cms= 1.166m M/N Mmd= 1.992m Kg Mms= 2.078 g BL= 2.522 TM Qms= 1.493 Qes= 0.755 Qts= 0.502 Levc= 38.886u H No= 0.181 % SPLo= 84.593 dB Xmax= 3.0mm 1 way



Installation: please note the off-set screw positions on the frame mounting.



