

# Technical Datasheet

ACOUSTIC  
ENGINEERS



## SH25-76 Soft Dome Tweeter

The SH25-76 is a 25mm soft dome tweeter designed and built by ATC Loudspeaker Technology. The drive unit has been designed with the same no compromise philosophy as all other ATC drive units.

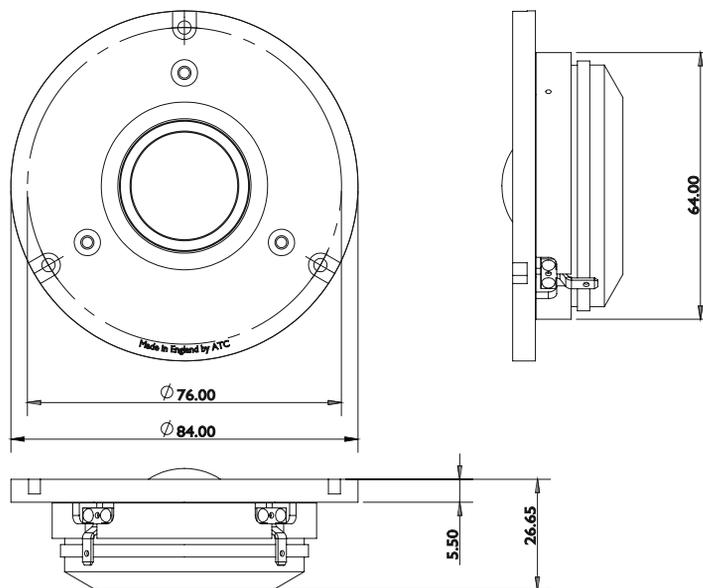
Sharing technology with the renowned SM75-150 mid-range, the SH25-76 employs a dual suspension design, ensuring piston motion and suppressing anharmonic rocking modes even at high drive levels. This also enables the use of a narrow magnetic gap and negates the requirement for ferrofluid. The SH25-76 is therefore, free from the detrimental effects of this drying out over time.

A short coil, long gap configuration ensures unparalleled linearity and incredibly low distortion through its intended operating band.

The soft dome diaphragm is based on a complex geometry which maximises power transfer from the former, extending the high frequency response and giving a smooth off-axis response.

The FEA optimised neodymium motor with heat treated top plate is designed to give 15,000 Gauss (1.5 Tesla) in the magnetic gap and the motor assembly also performs the secondary function of dissipating heat away from the voice coil, ensuring high power handling and low power compression. The underhung design, small coil-gap clearance and black plating ensures heat dissipation is as efficient as possible.

The geometry of the waveguide is designed for optimum dispersion and the flattest possible on-axis frequency response. It is made from a precision machined alloy so that the entire structure is extremely rigid and free from resonances.



### Specification

- Sensitivity 88dB/W @1m
- Nominal Impedance 6  $\Omega$
- Frequency Linearity ( $\pm 2$ dB) 720Hz to 20kHz
- Cut-Off Frequency (-6dB) 585Hz & 22kHz
- Dispersion  $\pm 80^\circ$  Coherent
  
- Magnetic Gap Height 3.0mm
- Coil Length 2.0mm
- Magnetic Gap Flux Density 1.5 Tesla/15000 Gauss
  
- Weight 0.34kg

ATC reserves the right to alter specifications without prior notice.

Acoustic Transducer Company, Gloucestershire, GL6 8HR. England. Acoustic Transducer Co. is a trading name and Loudspeaker Technology Ltd.

Copyright © 2013 Loudspeaker Technology Ltd - All Rights Reserved

ATC is the registered Trade Mark of