

# **HELIX** GERMAN CAR HIFI *competition*

## RS 806

AUDIOTEC  
FISCHER  
INNOVATIVE CAR AUDIO

**Gleichstromwiderstand /**  $R_{dc}$  **3,4  $\Omega$**   
DC restance

**Nennimpedanz /**  $Z_N$  **4  $\Omega$**   
Nominal impedance

**Resonanzfrequenz**  $f_s$  **58,67 HZ**  
Resonance frequency

**Spulendurchmesser** **37 mm**  
Voice coil diameter

**Spulenbreite /** **12 mm**  
Voice coil height

**Mechanische Güte /**  $Q_{ms}$  **2,54**  
Mechanical Q factor

**Elektrische Güte /**  $Q_{es}$  **0,44**  
Electrical Q factor

**Gesamtgüte**  $Q_{ts}$  **0,38**  
Total Q factor

**Dynamisch bewegte Masse /**  $m_d$  **14,77 g**  
Moving mass

**Effektive Membranfläche /**  $S_m$  **135 cm<sup>2</sup>**  
Effective piston area

**Mechanischer Widerstand /**  $R_{ms}$  **2,14 Kg/s**  
Mechanical resistance

**Nachgiebigkeit /**  $C_{ms}$  **0,5 mm/N**  
Compliance

**Antriebsfaktor /**  $BL$  **6,45 Tm**  
Force factor

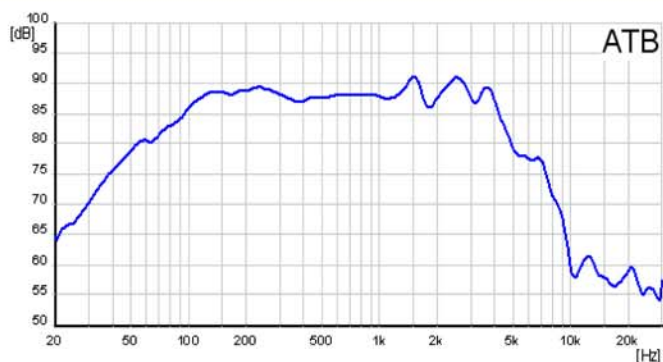
**Äquivalentvolumen /**  $V_{as}$  **12,75 dm<sup>3</sup>**  
Equivalent air volume

**Wirkungsgrad /**  $\eta$  **0,56 %**  
Efficiency

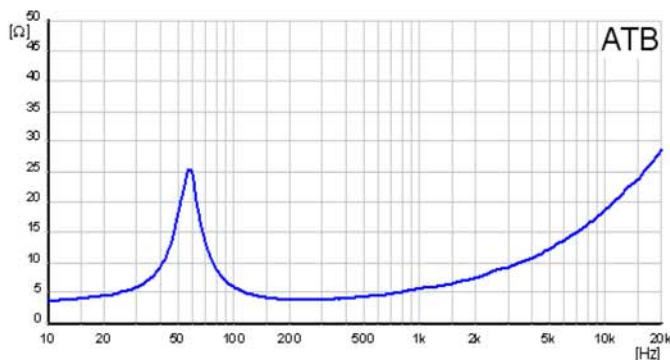
**SPL 1W/1m** **89,47 dB**

**SPL 2,83V/1m** **93,19 dB**

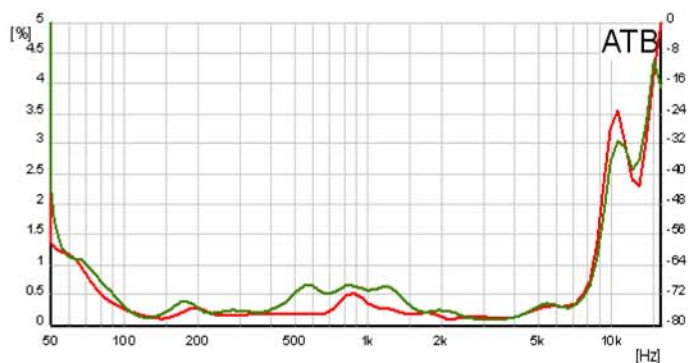
### Frequenzgang / Frequency response [1W/1m]



### Impedanzverlauf / Impedance



### Klirrfaktoren / Harmonic Distortion [1w / 1m]



rot / red: K2

grün / green: K3