



## Matrix 6.1

AUDIOTEC  
FISCHER  
INNOVATIVE CAR AUDIO

**Gleichstromwiderstand /**  $R_{dc}$  **3,6  $\Omega$**   
DC restance

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

**Resonanzfrequenz**  $f_s$  **44,73 Hz**  
Resonance frequency

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

**Spulenbreite /** **17 mm**  
Voice coil height

**Mechanische Güte /**  $Q_{ms}$  **4,65**  
Mechanical Q factor

**Elektrische Güte /**  $Q_{es}$  **0,54**  
Electrical Q factor

**Gesamtgüte**  $Q_{ts}$  **0,49**  
Total Q factor

**Dynamisch bewegte Masse /**  $m_d$  **20,06 g**  
Moving mass

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

**Mechanischer Widerstand /**  $R_{ms}$  **1,21 Kg/s**  
Mechanical resistance

**Nachgiebigkeit /**  $C_{ms}$  **0,63 mm/N**  
Compliance

**Antriebsfaktor /**  $BL$  **6,12 Tm**  
Force factor

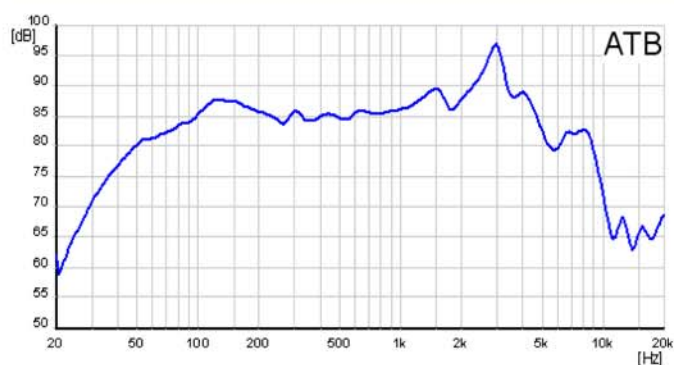
**Äquivalentvolumen /**  $V_{as}$  **16,15 dm<sup>3</sup>**  
Equivalent air volume

**Wirkungsgrad /**  $\eta$  **0,26 %**  
Efficiency

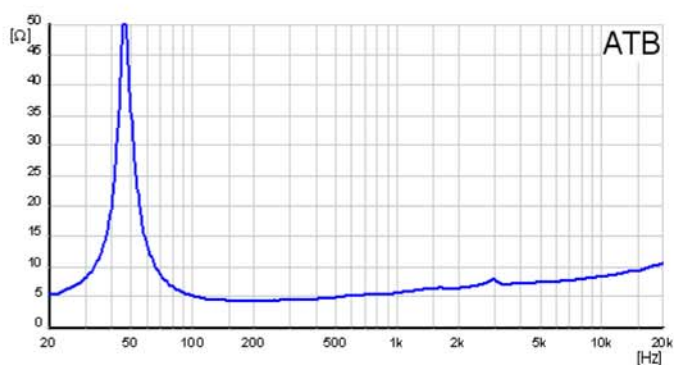
**SPL 1W/1m** **86,1 dB**

**SPL 2,83V/1m** **89,57 dB**

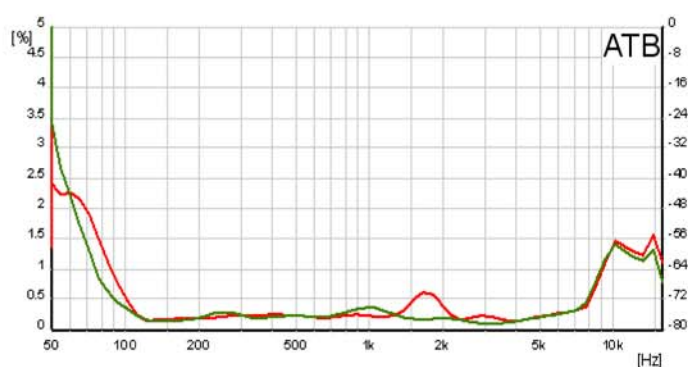
**Frequenzgang / Frequency response [1W/1m]**



**Impedanzverlauf / Impedance**



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



rot / red: K2

grün / green: K3