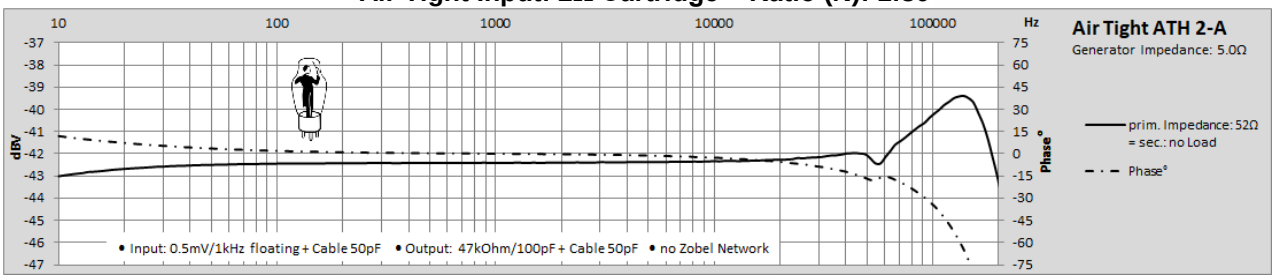
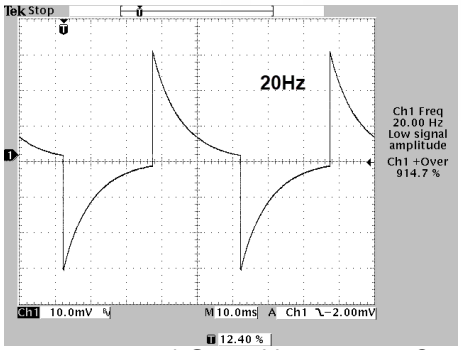
Air Tight ATH-2A MC-Transformer

This is not the result of a scientific measurement, just DIY-Information to choose the desired MC-Transformer

Air Tight Input: 2Ω Cartridge + Ratio (N): 1:30

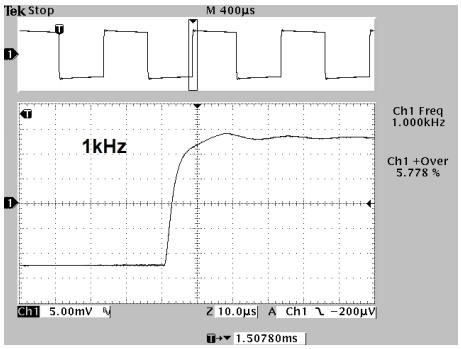


Input: 0.5mV$_{RMS}$/**5Ω** + Cable 50pF Output: 47kΩ/100pF + Cable 50pF (no Impedance Correction, no Zobel-Network

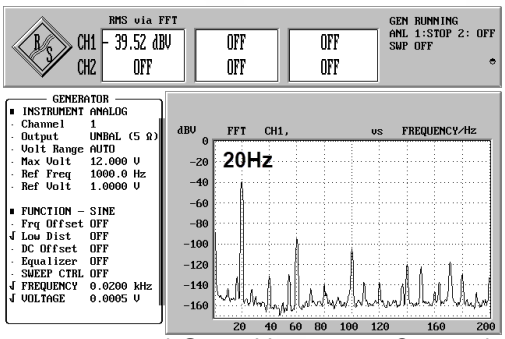


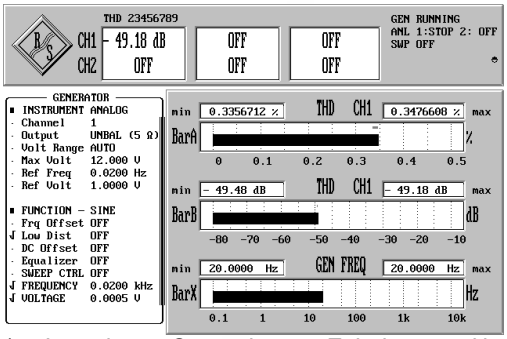
Calculated:
- prim. 52Ω, sec. no Load

Measured:
- Ratio (N) 1:30
- THD 20Hz~0.345%
  1kHz~0.003%
  10kHz~0.001%
- Prim. Inductance (L_P)
  100mH/100Hz (Output open)



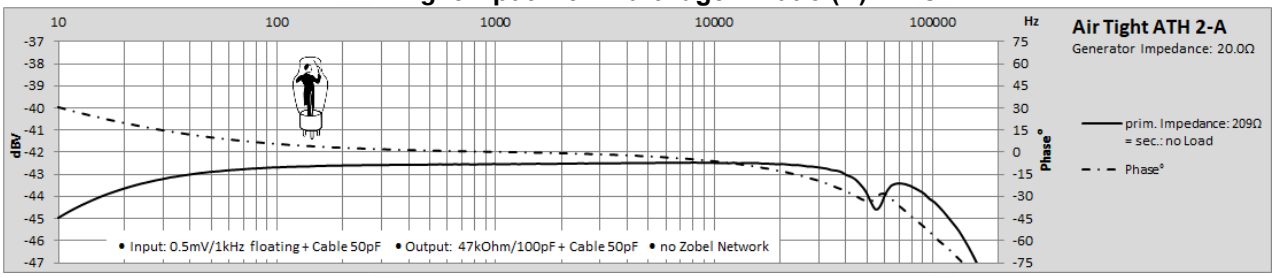
Input: 0.5mV$_{RMS}$/**5Ω** + Cable 50pF Output: 47kΩ/100pF + Cable 50pF (no Impedance Correction, no Zobel-Network)



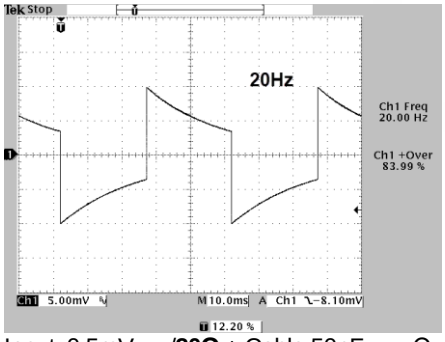


Input: 0.5mV$_{RMS}$/**5Ω** + Cable 50pF Output: 47kΩ/100pF + Cable 50pF (no Impedance Correction, no Zobel-Network)

Air Tight Input: 40Ω Cartridge + Ratio (N): 1:15

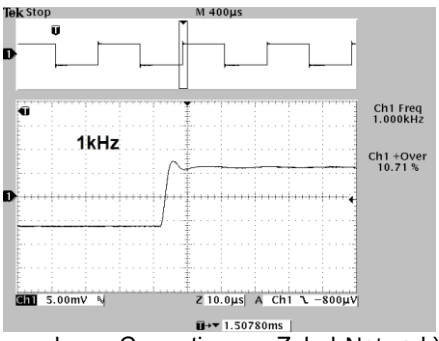


Input: 0.5mV$_{RMS}$/**20Ω** + Cable 50pF Output: 47kΩ/100pF + Cable 50pF (no Impedance Correction, no Zobel-Network)

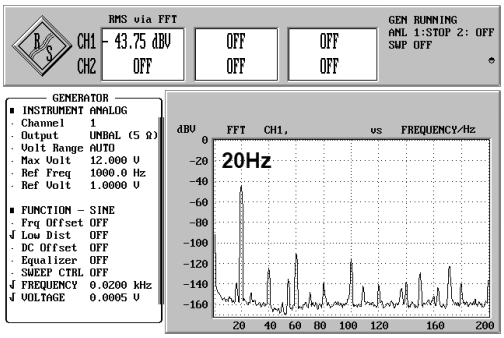


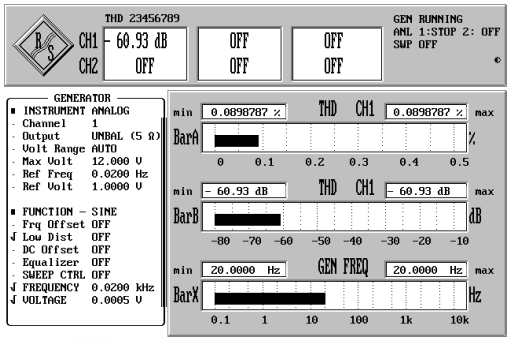
Calculated:
- prim. 203Ω, sec. no Load
- prim. 120Ω, sec. 67.6kΩ Load

Measured:
- Ratio (N) 1:15
- THD 20Hz~0.089%
  1kHz~0.003%
  10kHz~0.001%
- Prim. Inductance (L_P)
  350mH/100Hz (Output open)

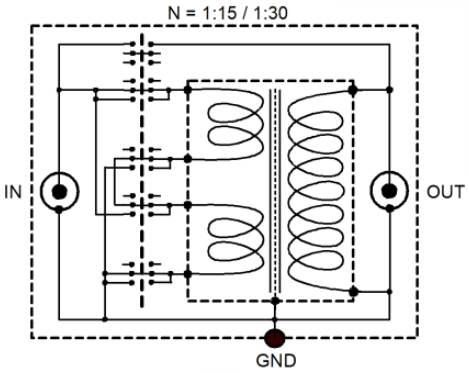


Input: 0.5mV$_{RMS}$/**20Ω** + Cable 50pF Output: 47kΩ/100pF + Cable 50pF (no Impedance Correction, no Zobel-Network)





Input: 0.5mV$_{RMS}$/**20Ω** + Cable 50pF Output: 47kΩ/100pF + Cable 50pF (no Impedance Correction, no Zobel-Network)



- Noise-Shield between prim./ sec. Windings
- Switch: 3 x Inputs
- Switch: by pass
  2Ω /1:30 Ratio
  40 Ω / 1:15 Ratio
- Case-Screw for Grounding
- Fix Ground Connection from Input to Output

Equipment: Rohde & Schwarz UPL; Rohde & Schwarz APN62; Tektronix TD3032B; Digilent Discovery2; UNI-T; UT61
Version: 1.6 kurtblum.com