### Headphone Measurements: Audio Technica ATH-M50 B2012

- **Volts RMS required to reach 90dB SPL:** 0.073 Vrms
- **Impedance @ 1kHz:** 39 Ohms
- **Power Needed for 90dB SPL:** 0.13 mW
- **Broadband Isolation in dB (100Hz to 10kHz):** -12 dB

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**Frequency Response**

Top - Compensated and Averaged
Bottom - Raw Data for Five Headphone Positions

**Isolation**

Attenuation of External Sound vs. Frequency

**Electrical Impedance and Phase**

Measured with 600 Ohm output impedance.

**%THD+noise @ 90dB and 100dB**

**30 Hz Square Wave**

**300 Hz Square Wave**

**Impulse Response**

Volts RMS required to reach 90dB SPL: 0.073 Vrms
Impedance @ 1kHz: 39 Ohms
Power Needed for 90dB SPL: 0.13 mW
Broadband Isolation in dB (100Hz to 10kHz): -12 dB

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