**Headphone Measurements:**

**Philips Cityscape Downtown**

- **Volts RMS required to reach 90dB SPL:** 0.027 Vrms
- **Impedance @ 1kHz:** 34 Ohms
- **Power Needed for 90dB SPL:** 0.02 mW
- **Broadband Isolation in dB (100Hz to 10kHz):** -16 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

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**Electrical Impedance and Phase**

Measured with 600 Ohm output impedance.

**30 Hz Square Wave**

- Time in Seconds
- Volts

**300 Hz Square Wave**

- Time in Seconds
- Volts

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**Impulse Response**

- Time in Seconds

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