Headphone Measurements: The Empiric DIY Headphone by Feilb

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**Headphone Measurements: The Empiric DIY Headphone by Feilb**

- **Volts RMS required to reach 90dB SPL:** 0.140 Vrms
- **Impedance @ 1kHz:** 31 Ohms
- **Power Needed for 90dB SPL:** 0.63 mW
- **Broadband Isolation in dB (100Hz to 10kHz):** -11 dB

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**Frequency Response**

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

![Frequency Response Graph](image)

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**Isolation**

*Attenuation of External Sound vs. Frequency*

![Isolation Graph](image)

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**Electrical Impedance and Phase**

*Measured with 600 Ohm output impedance.*

![Electrical Impedance and Phase Graph](image)

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

![%THD+noise Graph](image)

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**30 Hz Square Wave**

![30 Hz Square Wave Graph](image)

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**300 Hz Square Wave**

![300 Hz Square Wave Graph](image)

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**Impulse Response**

![Impulse Response Graph](image)

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