**Headphone Measurements: Ultrasone PRO-650**

- **Volts RMS required to reach 90dB SPL:** 0.129 Vrms
- **Impedance @ 1kHz:** 80 Ohms
- **Power Needed for 90dB SPL:** 0.21 mW
- **Broadband Isolation in dB (100Hz to 10kHz):** -10 dB

---

**Impulse Response**

---

**Isolation**

Attenuation of External Sound vs. Frequency

---

**Frequency Response**

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

---

**Electrical Impedance and Phase**

Measured with 600 Ohm output impedance.

---

**30 Hz Square Wave**

---

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

---

**300 Hz Square Wave**

---

**Copyright © SOURCE INTERLINK MEDIA All rights reserved.**