**Headphone Measurements: Yamaha HP1 Sn051712**

- **Volts RMS required to reach 90dB SPL:** 0.268 Vrms
- **Impedance @ 1kHz:** 136 Ohms
- **Power Needed for 90dB SPL:** 0.53 mW
- **Broadband Isolation in dB (100Hz to 10kHz):** -8 dBr

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**Graphs:**

1. **Frequency Response**
   - Top - Compensated and Averaged
   - Bottom - Raw Data for Five Headphone Positions

2. **Isolation**
   - Attenuation of External Sound vs. Frequency

3. **Electrical Impedance and Phase**
   - Measured with 600 Ohm output impedance.

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

5. **30 Hz Square Wave**

6. **300 Hz Square Wave**

7. **Impulse Response**

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