



Tisbury Audio Challenge Amp 1

Technical Specifications

| Distortion | Percent | Level | Notes |
|--|------------------------|------------------------|---------------------------|
| THD 100 Hz | 0.0004% | +6 dBu, 32 ohms | See (1) |
| THD 1 kHz | 0.0003% | +6 dBu, 32 ohms | See (1) |
| THD 20 kHz | 0.003% | +6 dBu, 32 ohms | See (1) |
| IMD CCIF | 0.0004% | +6 dBu, 32 ohms | See (2) |
| THD 100 Hz | 0.0004% | +16 dBu, 32 ohms | See (1) & (5) |
| THD 1 kHz | 0.0006% | +16 dBu, 32 ohms | See (1) & (5) |
| THD 20 kHz | 0.006% | +16 dBu, 32 ohms | See (1) & (5) |
| IMD CCIF | 0.0009% | +13.5 dBu, 32 ohms | See (2) & (5) |
| Max Output | Voltage (RMS) | Power | Notes |
| 16 ohms | 3.4 V | 725 mW | See (3) |
| 32 ohms | 5.5 V | 945 mW | See (3) |
| 50 ohms | 7.1 V | 1010 mW | See (3) |
| 100 ohms | 8.1 V | 655 mW | See (3) |
| 300 ohms | 8.2 V | 225 mW | See (3) |
| 600 ohms | 8.3 V | 115 mW | See (3) |
| Gain Settings: Low / high gain | 6 dB (2x) | 16 dB (6.3x) | |
| Max Input: Low / high gain | > 7 V RMS | 2.8 V RMS | Max input before clipping |
| Noise Floor Unweighted: Low / high gain | -108 dBV (4.0 μ V) | -105 dBV (5.6 μ V) | See (4) |
| Noise Floor A-Weighted: Low / high gain | -110 dBV (3.2 μ V) | -107 dBV (4.5 μ V) | See (4) |
| Dynamic Range: Unweighted / A-weighted | > 126 dB | > 128 dB | See (4) |
| Output Impedance | < 0.2 ohms | | |
| Input Impedance | 10 kohms | | |
| Frequency Response: 20 Hz - 20 kHz | -0.04 dB | | |
| Frequency Response: -3 dB freq. | 1.8 Hz, 230 kHz | | |
| Channel Balance: full vol. / -45 dB | < 0.01dB | < 1 dB typ. | |
| Crosstalk: 600 ohms / 32 ohms | < -97 dB | < -80 dB | 1 kHz, 0 dBV |
| DC Offset | < 1 mV typ. | | |
| Inputs | 1 x RCA pair | | |
| Outputs | 1 x 6.35mm TRS | | |
| Dimensions: W x D x H | 204 x 170 x 74mm | 8.0 x 6.7 x 2.9" | |
| Weight | 0.9 kg | 2 lb | Not inc. power supply |
| Power Supply | 12 V AC | \geq 1000 mA | |
| Max Power Consumption | 12 W | | |

All tests BW = 20 Hz - 22 kHz, except THD 20 kHz BW = 20 Hz to 96 kHz.

(1) THD: 10 pass average, high gain setting, 1 V RMS input.

(2) IMD: 19 kHz / 20 kHz 1:1, no averaging, high gain setting, 1 V RMS input.

(3) Max continuous output, both channels driven, 1 kHz sine, \leq 1% THD

(4) Noise: No averaging. Dynamic range: ref. 8.3 V RMS.

(5) These measurements are made approximately 1 dB below clipping and demonstrate the CA-1's consistent performance up to the max rated output.

Specifications are subject to change without notice.