

PICO 1

[Rev. 3.1 – 2019.12]

1-channel D class power amplifier

CEA-2006-A SPECIFICATIONS

POWER RATING: **500 Watt @ 4 Ohm < 1% THD+N**
SN RATIO: **>107 dBA (reference: 1 Wrms into 4 Ohm / LP = 310Hz)**

MOSCONI SPECIFICATIONS (*T_{case} = 25 °C @ 14.4 Volt if not otherwise specified*)

TARGET POWERS: **500 Watt x 1 @ 4 Ohm**
750 Watt x 2 @ 2 Ohm

EFFECTIVE POWERS: 549 Watt (Watt @11V) x 1 @ 4 Ohm / 1% THD / 1KHz – **48,9 A**
 (Continuous signal) 752 Watt (Watt @12V6) x 1 @ 2 Ohm / 1% THD / 1KHz – **74,6 A**

THD @ 4 Ohm
THD @ 2 Ohm

< **0.05 %** (1KHz / 90% Power rating ref)
 < **1 %** (1KHz / 90% Power rating ref)

DC-DC converter typology:**Unregulated****Conversion frequency:****45 KHz (± 6 %)****Absolute maximum operation supply voltage range:****10 V ÷ 16 V****Recommended operation supply voltage range:****10 V ÷ 14.4 V****Power-on/Power-off Voltage Threshold:****9 V / 6 V****Mute delay time:****3 secs****Secondary voltages (Rail / Service):****±40.8 V / ±14.4 V****Max output offset voltage (each channel):****±100 mV****Standby current:****< 0.1 mA (typical)****Idle current @ 12V6 (no signal):****0.62 A****Thermal protection consumption:****< 1 mA****Battery ground vs secondary ground decoupling:****0 Ohm****Body ground vs battery ground decoupling:****0 Ohm (2.2 KOhm @ 100MHz)****Bandwidth (-3dB ÷ 10 Watt):****13 Hz ÷ 20 KHz****Input sensitivity (Power rating ref):****0.3 Vrms ÷ 4 Vrms [Low Level] / 1.5 Vrms ÷ 20 Vrms [High Level]****Input impedance @ 1 KHz:****>15 Kohm [Low Level] / 600R (or 22R dummy load by jumper)[High Level]****Ground reference (only in Low Level mode):****Open (default) or 22R to ground (by jumper)****S/N ratio (AP filter 10 Hz - 500 KHz) – Power rating ref:****104 dB****S/N ratio (AP filter 10 Hz - 22 KHz) – Power rating ref:****107 dB (“A” weighted)****Eq. Input noise (AP filter 10 Hz - 500 KHz):****1,89 uV****Eq. Input noise (AP filter 10 Hz - 22 KHz):****1,34 uV (“A” weighted)****Crossover:****Subsonic filter: 13Hz (always on)****Thermal cutoff Threshold:****LP filter: 45Hz ÷ 310Hz (selectable)****Recovery Temperature Threshold:****82 °C (±5°C)****Load drive limitations (*):****72 °C (±5°C)****Suggested fuse:****2 Ohm****40 A (onboard)****Other features:****16 Volt ready****Start & Stop compliant****Autosense: auto switch-on (BTL sources only)****VERY IMPORTANT NOTE - READ CAREFULLY**

Minimum load: 2 Ohm with musical signal

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