

CEA-2006-A SPECIFICATIONS

POWER RATING: 100 Watts per channel @ 4 Ohms < 1% THD+N
SN RATIO: >91 dBA (reference: 1 Watt into 4 Ohms)

GT Trading SPECIFICATIONS (Tcase = 25 °C / 4 Ohms stereo / 0.2V input level if no otherwise specified / All channels operative)

POWER RATINGS:	100 Watts per channel @ 4 Ohms < 0.3% THD+N 195 Watts per channel @ 2 Ohms < 0.3% THD+N 390 Watts BTL mode @ 4 Ohms < 0.3% THD+N
<i>Power output @ 4 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD:</i>	100 W x 2 – 20 A – 82 % efficiency
<i>Power output @ 2 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD:</i>	195 W x 2 – 39 A – 79 % efficiency
<i>Power output @ 4 Ohm / 14V4 / 1KHz / BRIDGE / 0.3% THD:</i>	390 W x 1 – 39 A – 79% efficiency
THD @ 4 Ohm / 14V4 / STEREO:	< 0.04 % (1KHz / Power rating ref)
THD @ 2 Ohm / 14V4 / STEREO:	< 0.04 % (1KHz / Power rating ref)
THD @ 4 Ohm / 14V4 / BRIDGE:	< 0.04 % (1KHz / Power rating ref)
DIM @ 4 Ohm / 14V4 / STEREO:	< 0.003 % (Power rating ref)
DIM @ 2 Ohm / 14V4 / STEREO:	< 0.004 % (Power rating ref)
DIM @ 4 Ohm / 14V4 / BRIDGE:	< 0.004 % (Power rating ref)
DC-DC converter typology:	Regulated, PWM
Conversion frequency:	52 KHz (± 6 %)
Absolute maximum operation supply voltage range:	10 V ÷ 16 V
Recommended operation supply voltage range:	11 V ÷ 14.4 V
Undervoltage cutoff Threshold / delay time:	10 V / 60 secs.
Overvoltage cutoff Threshold / delay time:	16 V / 10 secs.
Mute delay time:	3 secs.
±Vcc span regulation @ 14.4 Volt:	54 V
Secondary voltages (Amp. / Bias / Pre.) @ 14.4 Volt:	±27 V / ±4.4 V / ±14.7 V
Max output offset voltage (each channel):	±20 mV
Standby current @ 14.4 Volt:	< 1 mA (0.7 mA typ.)
Quiescent consumption @ 12.6 Volt / 14.4 Volt:	0.9 A / 0.82 A (no idle current regulation)
Idle current regulation @ 14.4 Volt (4 Ohm STEREO - no signal):	0.1 A per channel
Quiescent consumption @ 12.6 Volt / 14.4 Volt:	1.34 A / 1.22 A (with 0.4 A total idle current regulation)
Thermal protection consumption @ 14.4 Volt:	0.9 A
Battery ground vs secondary ground decoupling:	R.C. network (22R * 100n)
Body ground vs battery ground decoupling:	R.C. network (15R // 100n)
Bandwidth (-3dB ÷ 1 Watt) @ 14.4 Volt (4 Ohm STEREO):	5 Hz ÷ 150 KHz
Input sensitivity @ 14.4 Volt (4 Ohm STEREO) – Power rating ref:	0.2 V ÷ 5.3 V (0.2 V ÷ 5 V declared)
Input impedance @ 1 KHz (STEREO input):	10 KOhm
Input capacitance @ 1 KHz (STEREO input):	220 pF
Input ground decoupling:	R.C. network (15R // 100n)
S/N ratio (AP filter 10 Hz - 500 KHz) – Power rating ref:	91 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):	5.6 uV
Eq. Input noise (AP filter 10 Hz - 22 KHz):	0.9 uV (“A” weighted)
Channel separation @ 100Hz / 1KHz / 10KHz – Power rating ref:	83 dB / 79 dB / 65 dB
Xover functions:	Same features for Section A & Section B; HIGH Pass (15Hz – 500Hz) or LOW Pass (50Hz – 4000Hz)
Filter slope - Filter "Q":	12 dB/oct - 0.7
Thermal cutoff / recovery Threshold:	90 / 70 °C
Damping factor @ 100 Hz (4 Ohm STEREO) - 10 Watt ref:	525 / 1585 (R/L section A) ÷ 488 / 1604 (R/L section B)
Damping factor @ 1 KHz (4 Ohm STEREO) - 10 Watt ref:	527 / 1272 (R/L section A) ÷ 530 / 1608 (R/L section B)
Damping factor @ 10 KHz (4 Ohm STEREO) - 10 Watt ref:	331 / 488 (R/L section A) ÷ 334 / 642 (R/L section B)
Output impedance @ 1 KHz (4 Ohm STEREO) - 10 Watt ref:	7.6 mOhm / 3.1 mOhm & 7.5 mOhm / 2.5 mOhm
Overload cutoff @ 14.4 Volt:	2 Ohm / 4 Ohm (Stereo / Bridged)
Current consumption @ 2 Ohms / 12.6 Volt / STEREO:	39A (Power rating ref)
Suggested fuse:	40A

(* Input signal: 1KHz, Burst 40 cycles, Interval 120 cycles, 0% Low level. Power measured after 10 cycles.