QM|75.4 PRODUCT SPECIFICATIONS [Rev. 0 - Last update: 2016-09-22]

CEA-2006-A SPECIFICATIONS

POWER RATING:	**75 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:	**75 Watts per channel @ 4 Ohms < 0.3% THD+N** **105 Watts per channel @ 2 Ohms < 0.3% THD+N** **210 Watts BTL mode @ 4 Ohms < 0.3% THD+N**
***Power output** @ 4 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD:*	**75 W x 4** – **31 A** – **72 %** efficiency
***Power output** @ 2 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD:*	**105 W x 4** – **75 A** – **69 %** efficiency
***Power output** @ 4 Ohm / 14V4 / 1KHz / BRIDGE / 0.3% THD:*	**210 W x 2** – **75 A** – **69%** 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:*	**36 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 regutation)
***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)** or **BAND Pass (15Hz – 4000 Hz)**
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:*	***50A*** (Power rating ref)
Suggested fuse:	**2 x 30 A**

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