K2 | 04D *PRODUCT SPECIFICATIONS* [Rev. 0 - Last update: 2015-09-04]

CEA-2006-A SPECIFICATIONS

POWER RATING: **500 Watts per channel @ 4 Ohms < 1% THD+N**
SN RATIO: **>85 dBA (reference: 1 Watt into 4 Ohms)**

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

POWER RATINGS:	**500 Watts per channel @ 4 Ohms < 0.3% THD+N** **900 Watts per channel @ 2 Ohms < 0.3% THD+N** **1700Watts (*) per channel @ 1 Ohms < 0.3% THD+N** **2000 Watts BTL mode @ 4 Ohms < 0.3% THD+N** **3500 Watts (*) BTL mode @ 2 Ohms < 0.3% THD+N**
***Power output** @ 4 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD:*	**500 W x 2 – 40.1 A – 80 %** efficiency
***Power output** @ 2 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD:*	**900W x 2 – 100 A – 80 %** efficiency
***Power output** @ 4 Ohm / 14V4 / 1KHz / BRIDGE / 0.3% THD:*	**2000W x 2 – 250 A – 80 %** efficiency
***THD @ 4 Ohm / 14V4 / STEREO**:*	**< 0.03 %** (1KHz / Power rating ref)
***THD @ 2 Ohm / 14V4 / STEREO**:*	**< 0.03 %** (1KHz / Power rating ref)
***THD @ 4 Ohm / 14V4 / BRIDGE**:*	**< 0.03 %** (1KHz / Power rating ref)
***DIM @ 4 Ohm / 14V4 / STEREO**:*	**< 0.005 %** (Power rating ref)
***DIM @ 2 Ohm / 14V4 / STEREO**:*	**< 0.006 %** (Power rating ref)
***DIM @ 4 Ohm / 14V4 / BRIDGE**:*	**< 0.006 %** (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:*	**108 V**
***Secondary voltages** (Amp. / Bias / Pre.) @ 14.4 Volt:*	**±54 V / ±4 V / ±15 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:*	**1.2 A / 1.12 A** (no idle current regutation)
***Idle current regulation** @ 14.4 Volt (4 Ohm STEREO - no signal):*	**0.35 A** per channel
***Quiescent consumption** @ 12.6 Volt / 14.4 Volt:*	**1.96 A / 1.82 A** (with 0.7 A total idle current regulation)
***Thermal protection consumption** @ 14.4 Volt:*	**1.9 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 ÷ 40 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:*	**78 dB**
***S/N ratio** (AP filter 10 Hz - 22 KHz) – Power rating ref:*	**108 dB** (“A” weighted)
***Eq. Input noise** (AP filter 10 Hz - 500 KHz):*	**25.2 uV**
***Eq. Input noise** (AP filter 10 Hz - 22 KHz):*	**0.8 uV** (“A” weighted)
***Channel separation**@ 100Hz / 1KHz / 10KHz – Power rating ref:*	**90 dB / 93 dB / 71 dB**
Xover functions:	**INPUT Passthrought**; **HIGH Pass** & **LOW Pass** (BAND Pass allowed) (60÷80÷100÷120Hz & 60÷70÷80÷90Hz) or AQXM2 modules
Xover frequency range: ***Xover slope - Xover "Q":***	**12 dB/oct - 0.7/1.2** [HP] & **12 dB/oct - 0.7** [LP] (Stereo & Mono) **24 dB/oct - 0.5/1.4** [HP] & **24 dB/oct - 0.4** [LP] (Mono only)
Thermal cutoff / recovery Threshold:	**90 / 70 °C**
INTELLISPEED® start / stop / max force Threshold:	**45 / 40 / 70 °C**
***Damping factor** @ 100 Hz (4 Ohm STEREO) - 10 Watt ref:*	**2119 / 2132** (Right / Left)
***Damping factor** @ 1 KHz (4 Ohm STEREO) - 10 Watt ref:*	**2129 / 2141** (Right / Left)
***Damping factor** @ 10 KHz (4 Ohm STEREO) - 10 Watt ref:*	**708 / 712** (Right / Left)
***Output impedance** @ 1 KHz (4 Ohm STEREO) - 10 Watt ref:*	**1.9 mOhm / 1.9 mOhm** (Right / Left)
***Overload cutoff** @ 14.4 Volt:*	**1 Ohm / 2 Ohm** (Stereo / Bridged)
***Current consumption** @ 2 Ohms / 12.6 Volt / STEREO:*	**163 A** (Power rating ref)
Suggested fuse:	**175 A** (External)

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