

F4D>400 (V) PRODUCT SPECIFICATIONS [Rev. 0 - Last update: 2006/07/14.]

CEA-2006-A SPECIFICATIONS

POWER RATING: **100 Watts per channel @ 4 Ohms < 1% THD+N**
SN RATIO: **>89 dBA (reference: 1 Watt into 4 Ohms)**

GT Trading SPECIFICATIONS (Tcase = 25 °C / 4 Ohms stereo / 0.17V input level if not otherwise specified)

POWER RATINGS: **100 Watts per channel @ 4 Ohms < 0.3% THD+N**
150 Watts per channel @ 2 Ohms < 0.3% THD+N
300 Watts BTL mode @ 4 Ohms < 0.3% THD+N

Power output @ 4 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD: **100 W x 4 – 20 A – 82 % efficiency**
Power output @ 2 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD: **150 W x 4 – 38 A – 81 % efficiency**
Power output @ 4 Ohm / 14V4 / 1KHz / BRIDGE / 0.3% THD: **300 W x 2 – 40 A – 80 % efficiency**

THD @ 4 Ohm / 14V4 / STEREO: **< 0.03 % (1KHz / Power rating ref)**
THD @ 2 Ohm / 14V4 / STEREO: **< 0.04 % (1KHz / Power rating ref)**
THD @ 4 Ohm / 14V4 / BRIDGE: **< 0.05 % (1KHz / Power rating ref)**
DIM @ 4 Ohm / 14V4 / STEREO: **< 0.02 % (Power rating ref)**
DIM @ 2 Ohm / 14V4 / STEREO: **< 0.01 % (Power rating ref)**
DIM @ 4 Ohm / 14V4 / BRIDGE: **< 0.01% (Power rating ref)**

DC-DC converter typology: **Unregulated**
Conversion frequency: **40 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: **8.5 V**
Mute delay time: **3 secs.**
Secondary voltages (Amp. / Driver / Pre.) @ 14.4 Volt: **±31.8 V / ±6.9 V / ±17.5 V**
Max output offset voltage (each channel): **±20 mV**
Standby current @ 14.4 Volt: **< 2 mA**
Quiescent consumption @ 12.6 Volt / 14.4 Volt: **0.52 A / 0.57 A (no idle current regulation)**
Idle current regulation @ 14.4 Volt (4 Ohm STEREO - no signal): **0.1 A (each channel)**
Quiescent consumption @ 12.6 Volt / 14.4 Volt: **0.89 A / 0.97 A (with 0.4 A total idle current regulation)**
Thermal protection consumption @ 14.4 Volt: **0.6 A**
Battery ground vs secondary ground decoupling: **R.C.D. network (56R // 100n // double clamp diodes)**
Body ground vs battery ground decoupling: **R.C. network (100R // 100n)**
Bandwidth (-3dB ÷ 1 Watt) @ 14.4 Volt (4 Ohm STEREO): **5 Hz ÷ 170 KHz**
Input sensitivity @ 14.4 Volt (4 Ohm STEREO) – Power rating ref: **0.17 V ÷ 4.3 V**
Input impedance @ 1 KHz (STEREO input): **11 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: **106 dB (“A” weighted)**
Eq. Input noise (AP filter 10 Hz - 500 KHz): **21.4 uV**
Eq. Input noise (AP filter 10 Hz - 22 KHz): **0.85 uV (“A” weighted)**
Channel separation @ 100Hz / 1KHz / 10KHz – Power rating ref: **87 dB / 75dB / 59 dB**
Xover functions: **HIGH Pass or LOW Pass (BAND Pass not allowed)**
(45 ÷ 300Hz)
12 dB/oct - 0.7 (Stereo & Mono)
88 °C (±5°C)
50 °C (±5°C)
179 / 170 ÷ 271 / 213 (Right / Left)
182 / 177 ÷ 296 / 225 (Right / Left)
155 / 141 ÷ 216 / 176 (Right / Left)
22 mOhm / 22.6 mOhm ÷ 13.5 mOhm / 17.7 mOhm
1 Ohm / 2 Ohm (Stereo / Bridged)
1 x 40 A (Internal)