

F1D>500 (V) *PRODUCT SPECIFICATIONS* [Rev. 0 - Last update: 2006/07/10]

CEA-2006-A SPECIFICATIONS

POWER RATING: **300 Watts one channel @ 4 Ohms < 1% THD+N**
SN RATIO: **>87 dBA (reference: 1 Watt into 4 Ohms)**

GT Trading SPECIFICATIONS (*T_{case} = 25 °C / 4 Ohms stereo / 0.17V input level if not otherwise specified*)

POWER RATINGS: **300Watts MONO @ 4 Ohms < 0.3% THD+N**
500Watts MONO @ 2 Ohms < 0.3% THD+N

Power output @ 4 Ohm / 14V4 / 1KHz / MONO / 0.3% THD: **300 W x 1– 25A – 82 % efficiency**

Power output @ 2 Ohm / 14V4 / 1KHz / MONO / 0.3% THD: **500 W x 1– 35 A – 81 % efficiency**

THD @ 4 Ohm / 14V4 / MONO: **< 0.04 % (1KHz / Power rating ref)**

THD @ 2 Ohm / 14V4 / MONO: **< 0.04 % (1KHz / Power rating ref)**

DC-DC converter typology:

Conversion frequency:

Absolute maximum operation supply voltage range:

Recommended operation supply voltage range:

Undervoltage cutoff Threshold:

Mute delay time:

Secondary voltages (Amp. / Driver / Pre.) @ 14.4 Volt:

Max output offset voltage (each channel):

Standby current @ 14.4 Volt:

Quiescent consumption @ 12.6 Volt / 14.4 Volt:

Idle current regulation @ 14.4 Volt (4 Ohm STEREO - no signal):

Quiescent consumption @ 12.6 Volt / 14.4 Volt:

Thermal protection consumption @ 14.4 Volt:

Battery ground vs secondary ground decoupling:

Body ground vs battery ground decoupling:

Bandwidth (-3dB ÷ 1 Watt) @ 14.4 Volt (4 Ohm STEREO):

Input sensitivity @ 14.4 Volt (4 Ohm STEREO) – Power rating ref:

Input impedance @ 1 KHz (STEREO input):

Input capacitance @ 1 KHz (STEREO input):

Input ground decoupling:

S/N ratio (AP filter 10 Hz - 500 KHz) – Power rating ref:

S/N ratio (AP filter 10 Hz - 22 KHz) – Power rating ref:

Eq. Input noise (AP filter 10 Hz - 500 KHz):

Eq. Input noise (AP filter 10 Hz - 22 KHz):

Channel separation @ 100Hz / 1KHz / 10KHz – Power rating ref:

Xover functions:

Filter slope - Filter "Q":

Thermal cutoff Threshold:

INTELLISPEED® start Threshold:

Suggested fuse:

Unregulated

40 KHz (± 6 %)

10 V ÷ 16 V

11 V ÷ 14.4 V

8.5 V

3 secs.

±39 V / ±7.5 V / ±14.8 V

±20 mV

< 2 mA

0.49 A / 0.54 A (no idle current regulation)

0.1 A (each channel)

0.65 A / 0.74 A (with 0.2 A total idle current regulation)

0.67 A

R.C.D. network (56R // 100n // double clamp diodes)

R.C. network (100R // 100n)

5 Hz ÷ 150 KHz

0.17 V ÷ 4.3 V

11 KOhm

220 pF

R.C. network (15R // 100n)

91 dB

107 dB ("A" weighted)

4.8 uV

0.76 uV ("A" weighted)

88 dB / 74 dB / 57 dB

HIGH Pass & LOW Pass (BAND Pass allowed)

(20 ÷ 150Hz) & (45 ÷ 300Hz)

12 dB/oct - 0.6 (Stereo & Mono)

88 °C (±5°C)

50 °C (±5°C)

1 x 40 A (Internal)