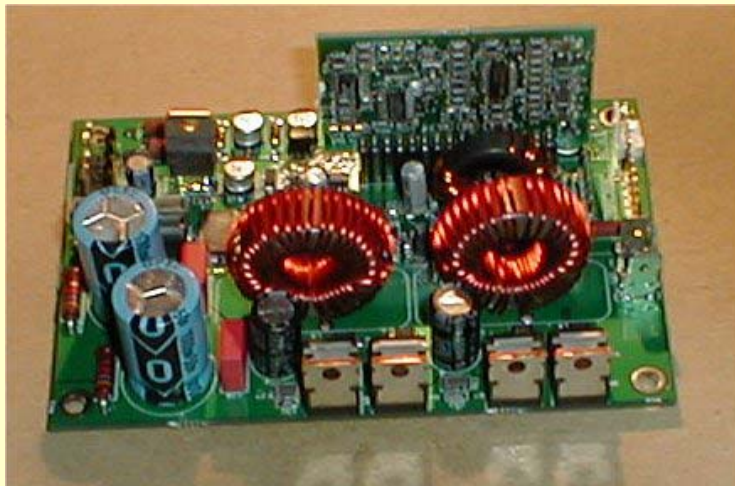


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D1000A PWM Amplifier.



D1000A specs

Rated power 4 ohms	1000W
Power supply max.	2 x 45V DC
Aux. supply	16V DC
Freq. Range (+0, -1dB)	20 - 20.000 Hz
THD + N	0.02% typ.
Dynamic range	110dB typ.
Max. output current	40A
Damping factor	400 typ.
Min. load impedance	4 ohms (*1)
Input voltage	1V - 10 k - balanced
Operation	Full bridge amplifier
Plugin/expansion header	yes
Peak limiter	yes
Dimensions	120 x 80 x 30 mm
Heatsink	external (small)
Available as sample	yes
Available as OEM design	yes

D1000A is a PWM /Class-D amplifier designed to give very high performance in audio quality and to deal with all aspects of amplifier use and applications including amplifier + power supply combination, multichannel use, active crossover use, etc.

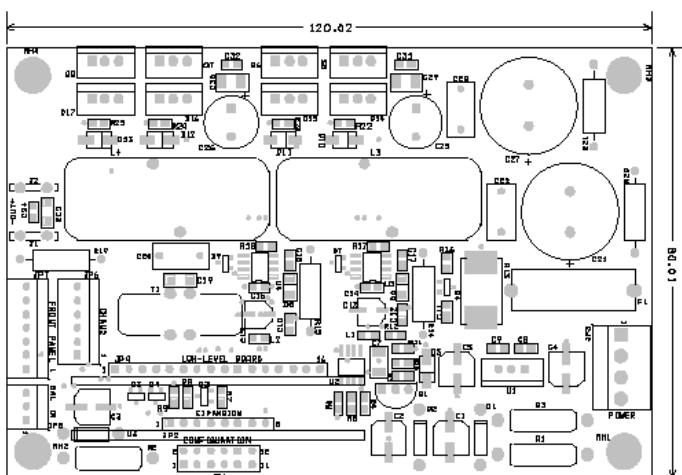
Power output is 1000W into 4 ohms, overcurrent protection is likely to operate with continuous high power levels into 2 ohms.

D1000A is all full bandwidth module (20 kHz power bw) and can be used for a broad range of applications from HIFI, Home Cinema to Pro Audio, Active Speakers, Installation... Sound quality is very good indeed and THD + N is 0.02% or better.

The D1000A can be powered from a linear supply, a switch-mode supply or a 1000ASW module.

D1000A has these connections:

- * Balanced input header (3-pin molex)
- * Expansion header (8-pin molex) with input/output + power for external signal processing, crossover, eq,...
- * Front panel header (7-pin molex) with volume control in/out + output to led meter and power for this.
- * Channel-2 link (6-pin molex) with clock and audio connection to additional channel module.
- * Mode selector (2x6 pin molex) selects fullrange, high or low for both main module and ch-2.
- * Power input (4-pin connector) 2 x 45VDC + 15VDC



Connectors.

Power Input – JP3

1	+45V
2	GND
3	-45V
4	+15_FL

Speaker Output.

J1 - + out
J2 - -out

Audio Input – JP5

1	GND
2	+IN
3	-IN

Expansion Header – JP2

1	HI out
2	LO out
3	
4	input
5	
6	+15V
7	GND
8	-15V

Mode selector – JP1

1-2	HI to CH2
3-4	LO to CH2
5-6	FR to CH2
7-8	HI to CH1
9-10	LO to CH1
11-12	FR to CH1

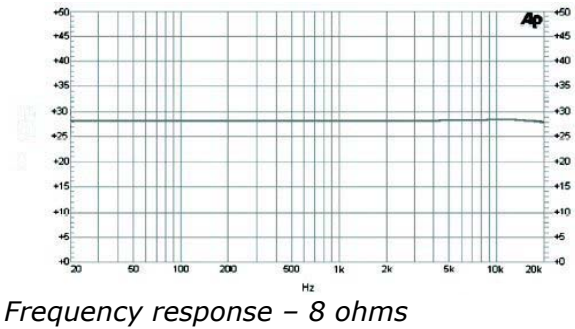
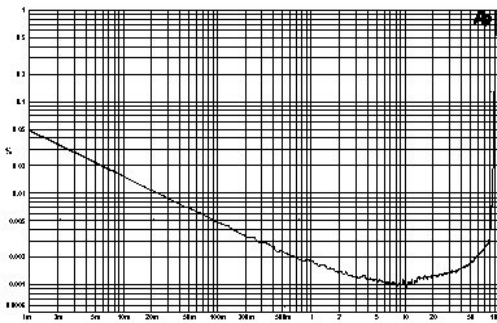
CH2 LINK – JP6

1	CLK out
2	GND
3	CLK in
4	GND
5	From JP6
6	GND

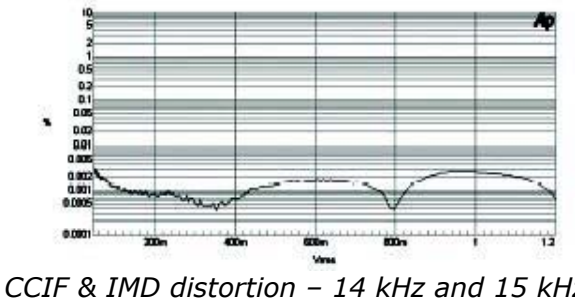
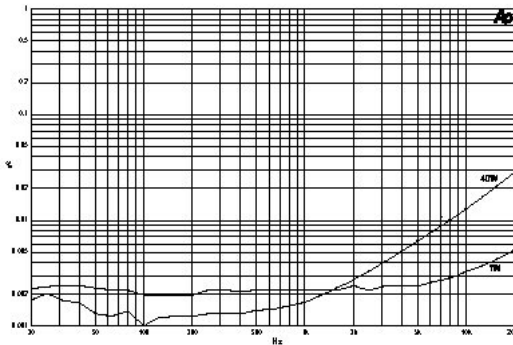
Front Panel – JP7

1	SD led
2	Clip led
3	+12V
4	GND
5	To Vol
6	From Vol
7	GND

Performance Graphs.



THD vs. Power Output



THD vs. Power Output and frequency

