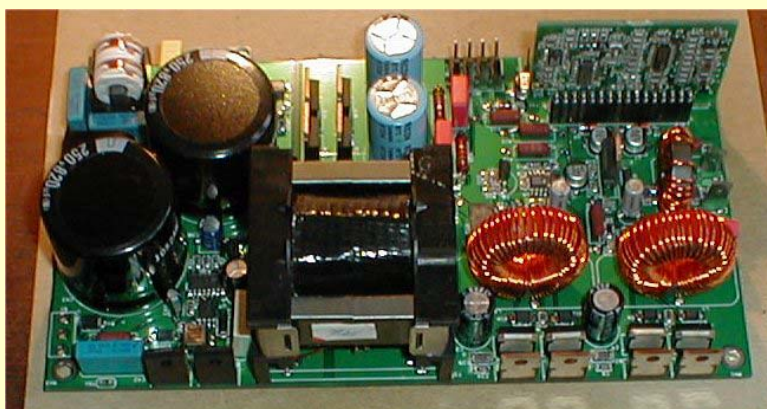


# DIGIAMPS.COM



## D2000ASW PWM Amplifier + SMPS



### D2000ASW specs

Rated power 4 ohms	2000W
Power supply max.	115V AC / 230V AC
Aux. supply	n.a.
Freq. range (+0, -1dB)	20 - 20.000 Hz
THD + N	0.02% typ.
Dynamic Range	110 dB typ.
Max. output current	55A
Min. load impedance	4 ohms
Damping factor	400 typ.
Input voltage	1V - 10 k – balanced
Operation	Full bridge amplifier
Plugin/expansion header	Yes
Peak limiter	Yes
Dimensions	188 x 100 x 35mm
Heatsink	external (small)
Available as sample	Yes
Available as OEM design	Yes

D2000ASW is a PWM / Class-D amplifier with on-board Switch-Mode Power Supply 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 2000W into 4 ohms, overcurrent protection is likely to operate with continuous high power levels into 2 ohms.

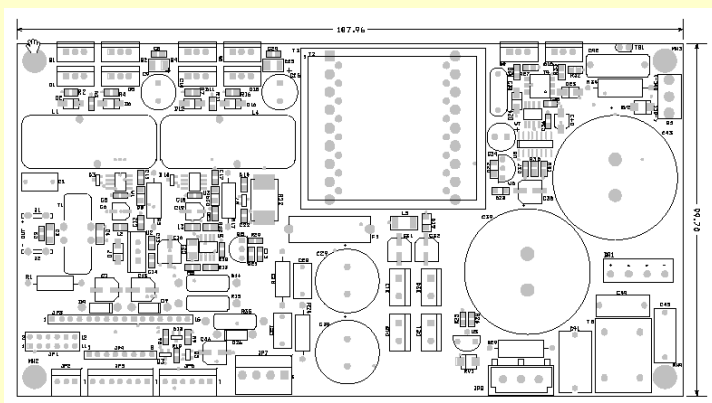
D2000ASW is a full bandwidth module (20 kHz power bw) and can be used for a broad range of applications from HIFI, Home Cinema to Pro Audio, Active Speakers, Installation...

Sound quality is very good indeed and THD + N is 0.02% or better.

The D2000ASW can power an external D2000A or a D500A module. (for BiAmp operation)

D2000ASW has these connections:

- \* Balanced input header (3-pin moxex)
- \* Expansion header (8-pin moxex) with inout/output + power for external signal processing, crossover, eq,...
- \* Front panel header (7-pin moxex) with volume control in/out + output to led meter and power for this.
- \* Channel-2 link (6-pin moxex) with clock and audio connection to additional channel module.
- \* Mode selector (2x6 pin moxex) selects fullrange, high or low for both main module and ch-2.
- \* Power input (3-pin connector) 115V / 230V AC



Connectors.

Power Input – JP8

1	AC in
2	GND
3	AC in

Power Output – JP7

1	+65V
2	GND
3	-65V
4	+15V flt

Speaker Output.

J1 - + out

J2 - -out

Audio Input – JP2

1	GND
2	+IN
3	-IN

Expansion Header – JP5

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

Mode selector – JP6

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

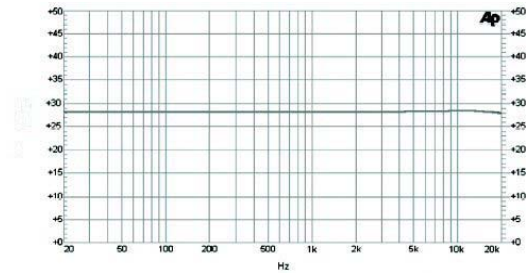
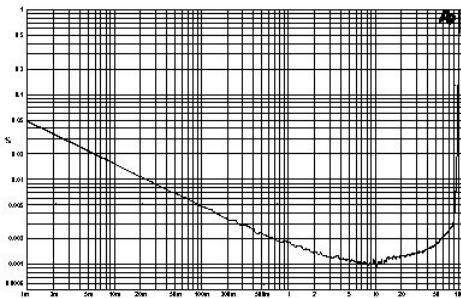
Front Panel – JP2

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

CH2 LINK – JP1

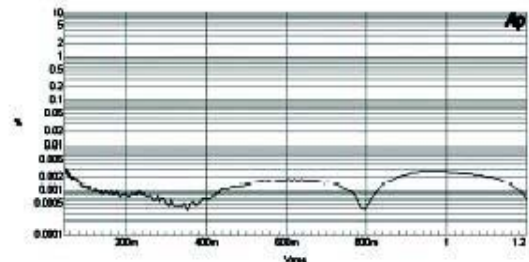
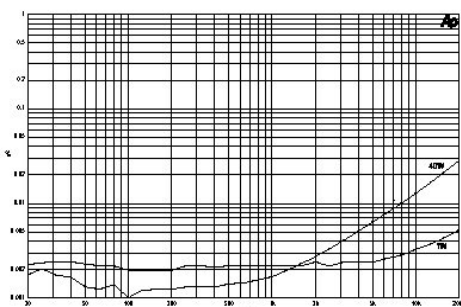
1	CLK out
2	GND
3	CLK in
4	GND
5	From JP6
6	GND

Performance Graphs.



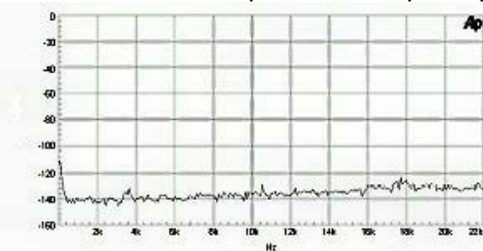
Frequency response – 8 ohms

THD vs. Power Output

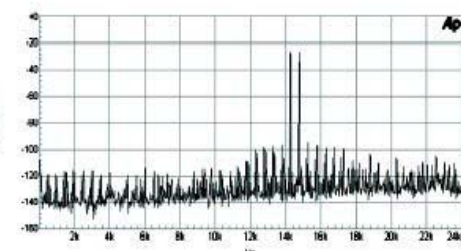


CCIF & IMD distortion – 14 kHz and 15 kHz

THD vs. Power Output and frequency



Noise Floor



CCIF & IMD distortion - 0 db= 400W

