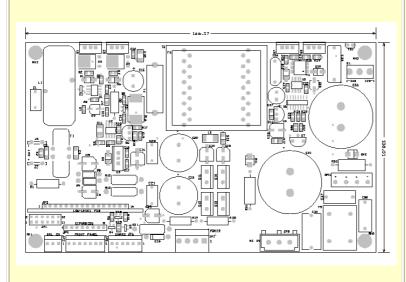
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D500ASW PWM Amplifier + SMPS





D500ASW specs

Rated power 4 ohms	500W
Power supply max.	115V AC / 230V AC
Aux. supply	n.a.
Freq. range (+0, -1dB)	20 - 20.000 Hz
THD + N	0.02% typ.
Damic Range	110 dB typ.
Max. output current	32A
Min. load impedance	4 ohms
Damping Factor	400 typ.
Input voltage	1V - 10 k - balanced
Operation	Half bridge amplifier
Plugin/expansion header	Yes
Peak limiter	Yes
Dimensions	166 x 100 x 35mm
Heatsink	external (small)
Available as sample	Yes
Available as OEM design	Yes

D500ASW 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 500W into 4 ohms, overcurrent protection is likely to operate with continuous high power levels into 2 ohms.

D5o0ASW 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 D500ASW can power an external D500A module.

- D500ASW 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 (3-pin connector) 115V / 230V AC

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Connectors.

Power Input – JP8	
1	AC in
2	GND
3	AC in
Power Output – JP7	
1	+65V
2	GND
3	-65V
4	$+15V_{flt}$

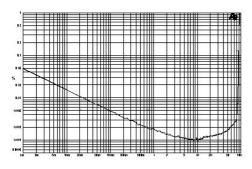
Speaker Output.

 $J\overline{1}$ - + out

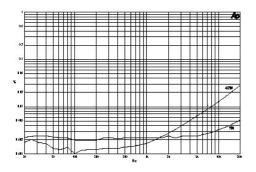
J2 - -out

Audio Input – JP2	
1	GND
2	+IN
3	-IN

Performance Graphs.



THD vs. Power Output



THD vs. Power Output and frequency



Noise Floor

Expansion Header – JP5	
1	HI out
2	LO out
3	
4	input
6	+15V
7	GND
8	-15V

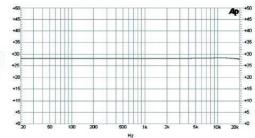
CH2 LINK – JP1	
1	CLK out
2	GND
3	CLK in
4	GND
5	From JP6
6	GND

Mode selector – JP6

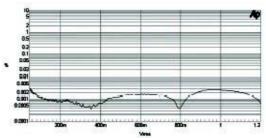
1-2	HI to CH2
3-4	LO to CH2
5-6	FR to CH2
7-8	HI to CH1
9-10	LO to CH1
11-12	FR to CH1

Front Panel – JP2

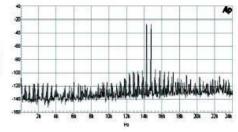
1	SD led
2	Clip led
3	+12V
4	GND
5	To Vol
6	From Vol
7	GND







CCIF & IMD distortion – 14 kHz and 15 kHz



CCIF & IMD distortion - 0 db= 400W