

# NXP 4x100 Watt

Full Range Class D Amplifier

February 24<sup>th</sup> 2011

Output Power (RMS) @ 1% 1000Hz 14.4V CEA 2006

Stereo @ 4Ohms 4x74 Watts @ 25A Eff. 82%

Stereo @ 2 Ohms 4x112 Watts @ 42A Eff. 74%

Mono @ 8 Ohms 2x146 Watts @ 25A Eff. 81%

Mono @ 4 Ohms 2x232 Watts @ 42A Eff. 77%

Frequency Response -3dB 7Hz - 64kHz

Crossover Range High and Low Pass 45Hz - 455Hz, 455Hz - 4550Hz

Bass Boost 0-15dB @ 45Hz

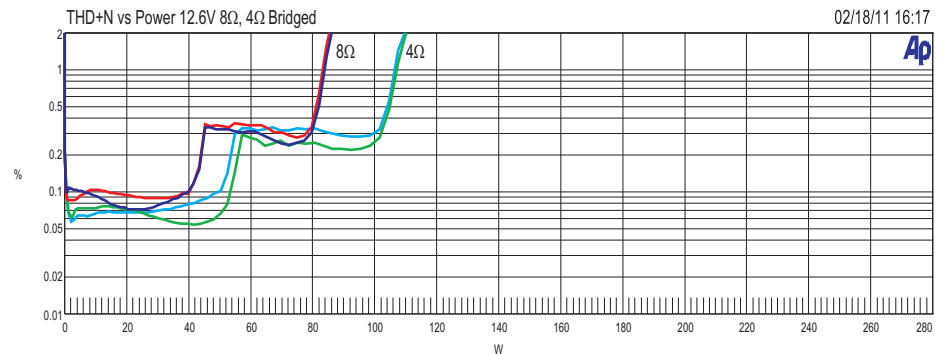
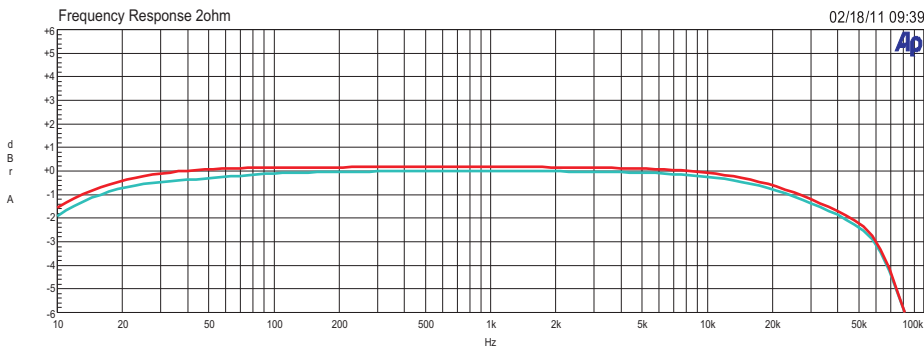
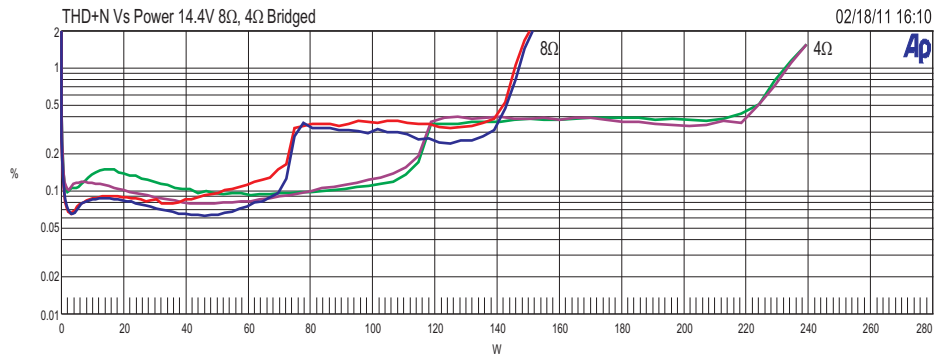
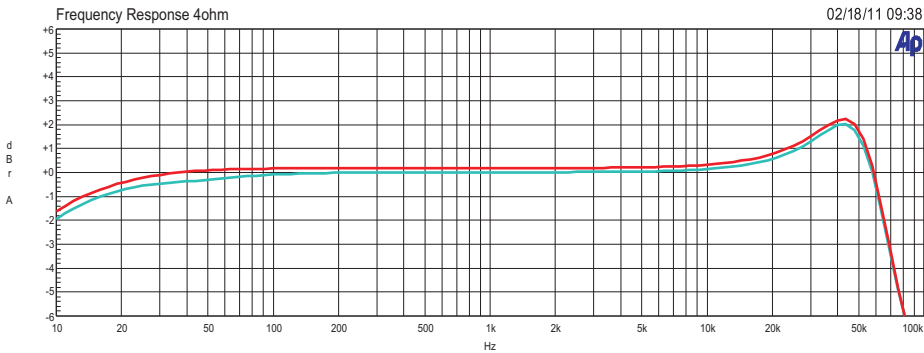
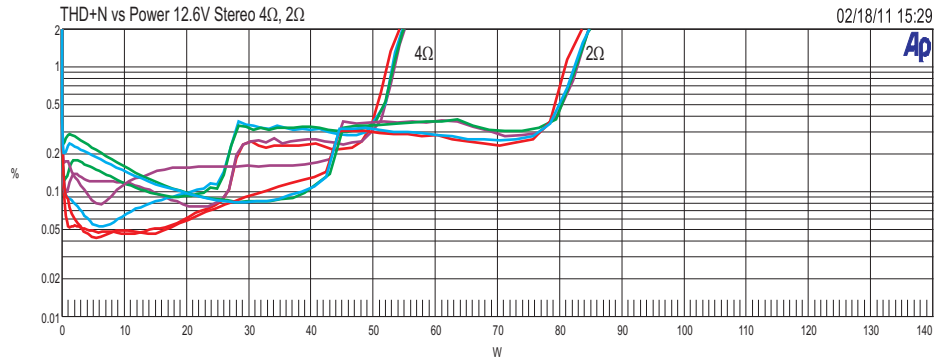
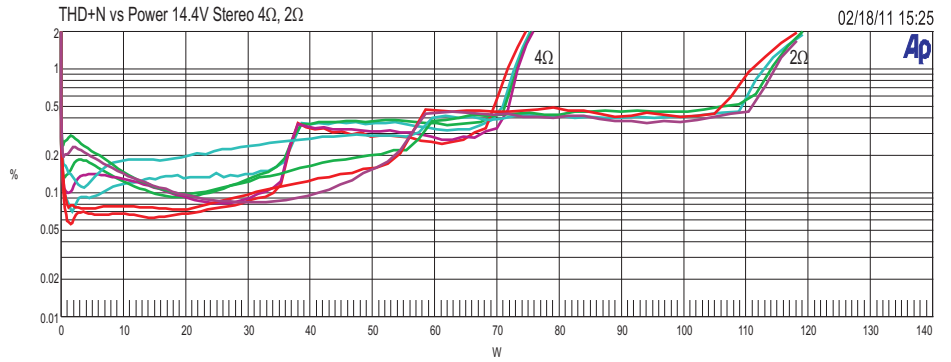
Ref 1 Watt 4Ω Ref 75Wx2 4Ω

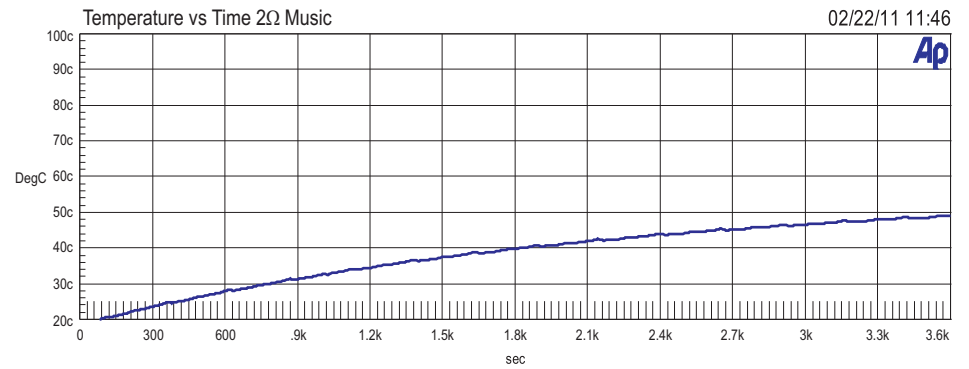
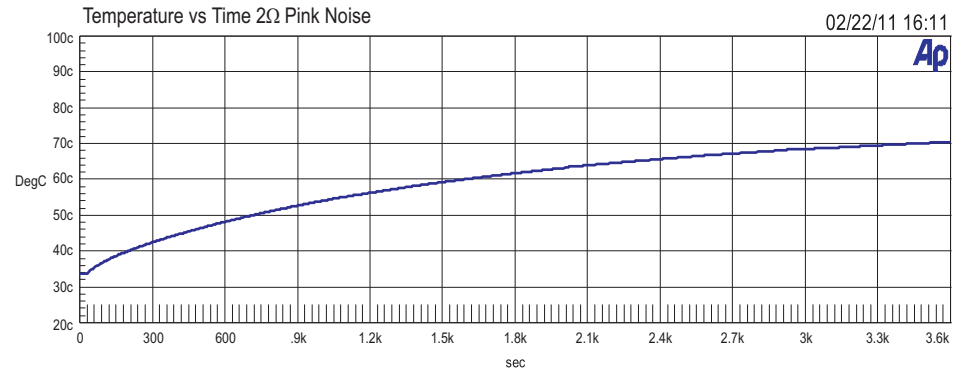
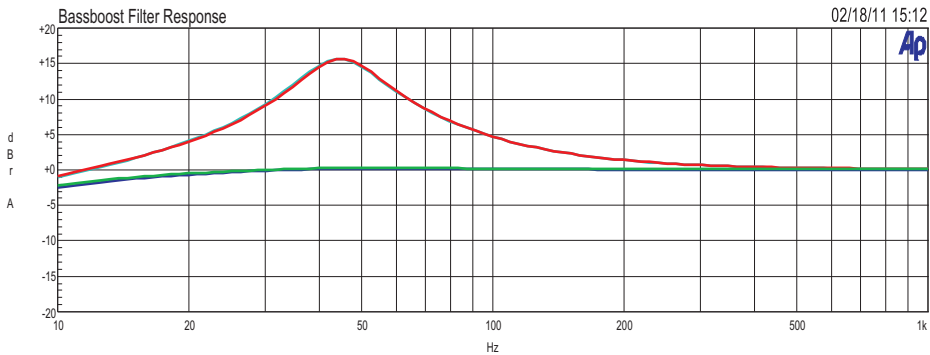
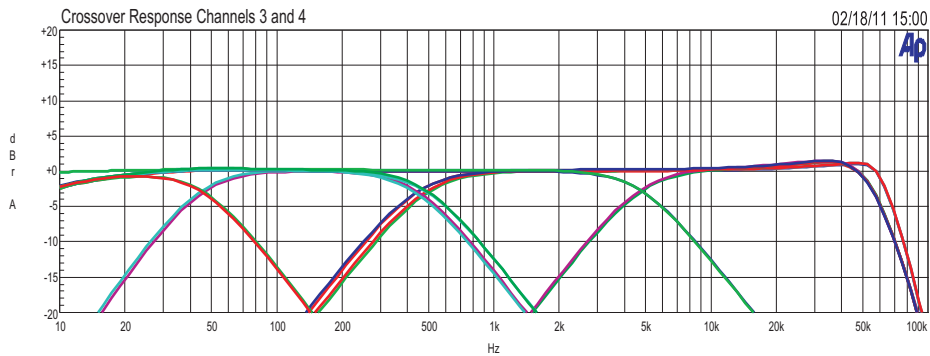
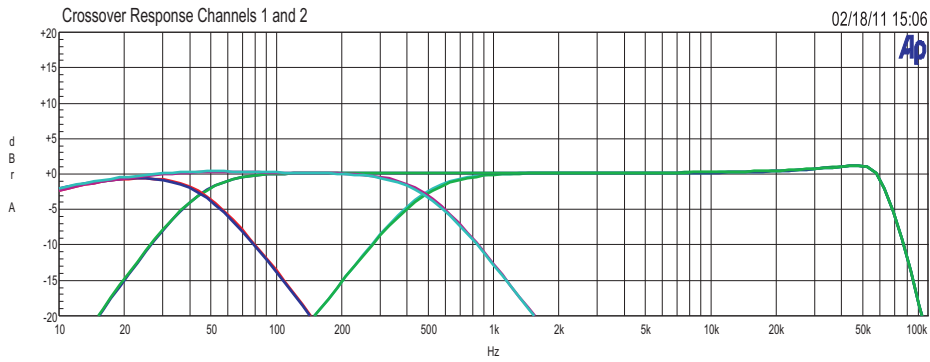
S/N Ratio (A wtg) >72dB >91dB

Separation 62dB 63dB


Input Sensitivity 0.21V - 6.1V

Input Impedance 60.4KΩ





VAMP(H) Rail	VAMP(L) Rail	Vop Rail	Vdrv
30V	NA	15V	NA
Switching Frequency 31kHz	Idle Current	Bias across	
Class D Switching Frequency 310kHz	1.54A	NA	
Transformer Turns Ratios			
5 Primary 10 Secondary			

Model	Board Revision 1.02(Hand Rev to 1.03)	Testing Sample Level & Serial Number Prototype SN:P1
Document Revision 1.00	Testing Date Feb 18 <sup>th</sup> 2011	
Document Date Feb 24 <sup>th</sup> 2011	Signature  Richard Greenway	

## Features:

- Two layer PCB with 2 Oz final copper weight on top and bottom.
- Lead Free
- Thermal power rollback for increased run time into heavy loads
- Microprocessor controlled
- Intelligent lighting behavior for status
- NXP Class D Output IC
- Class D and Switching Power Supplies are synchronized for reduced noise