



**Mueta B.V.**

## **Mueta Automotive Demonstrator – MAD2x100 User Information**

**This document is intended to provide guidance to enable the safe use of the Mueta Automotive Demonstrator MAD2x100**

READ THIS DOCUMENT CAREFULLY BEFORE USING THE MAD2x100. FAILURE TO COMPLY WITH THESE GUIDELINES MAY CAUSE THE MAD2x100 TO FAIL. If you are in doubt please do not use this equipment without seeking expert advice.

### WARRANTY AND USEAGE

This solution demonstrator board is intended for potential customers to evaluate the audio performance of the Mueta Class D amplifier solution in an automotive configuration and for no any other use.

The MAD2x100 is not a finished product. Mueta does not accept any warranty or liability claims against this board. All testing is conducted at the user's risk.

### General Guidance

1. Ensure that all rotary controls are fully anti-clockwise (counter-clockwise) and filter switch is in the off position.
2. When connecting any power or load to this equipment, please use appropriate spade connectors.

### Connection / power on procedure

1. Connect loudspeakers (or test load or measurement equipment) across output + and – speaker terminal outputs
2. Connect muted audio source to each channel RCA phono input.
3. Power up audio source.
4. Apply power to MAD2x100 in the following sequence.
  - a. Ground
  - b. Permanent Live
  - c. Ignition Live

### Input gain control

The input gain control does not reduce the input voltage to 0V – the input is controlled from around 0.5V to 5V.

### Power Supply Notes

The red LED indicates that there is power on the power terminals.

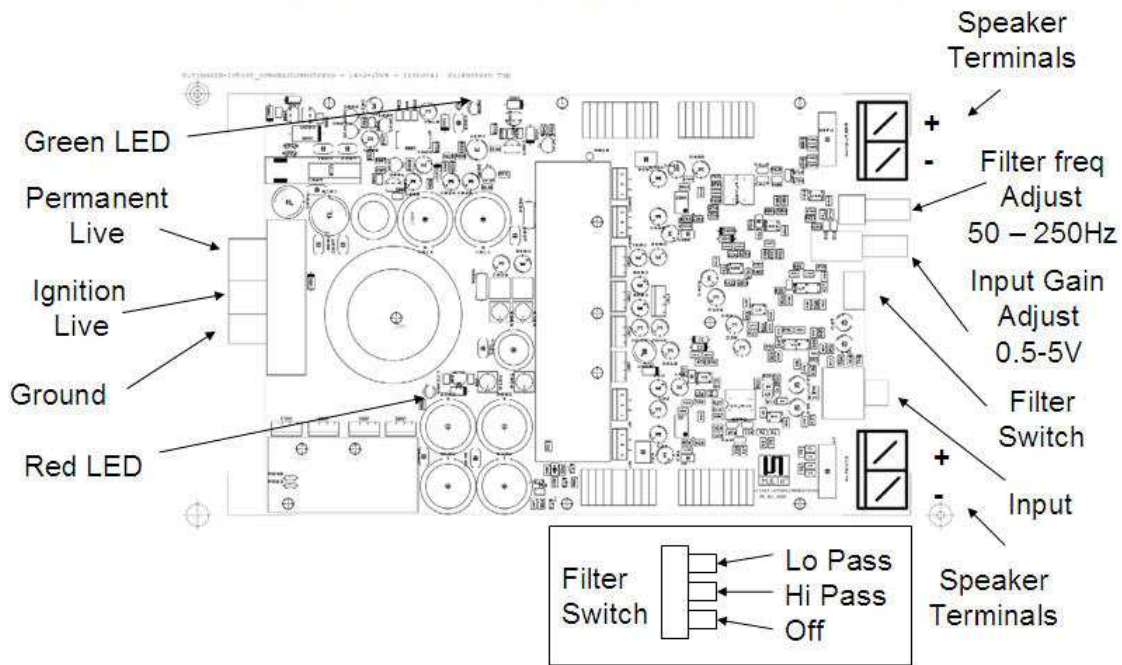
The green LED indicates that the power supply is supplying the amplifier.

**Electrical Characteristics** (Subject to change)

| External Signal               | TEST CONDITION                           | Min. | Typ. | Max. | Unit     |
|-------------------------------|--|------|------|------|----------|
| Permanent Live Supply         |  | 12   | 14.4 | 15.3 | V        |
| Ignition Live Supply          |  | 12   | 14.4 | 15.3 | V        |
| Load Impedance (note 1)       | Power Output 100W                        | 2    | 4    |      | $\Omega$ |
| Input Voltage                 |  | 0.5  | 2.6  | 5    | V        |
| Output Power (note 2)         | Sine Wave Input<br>Single Channel driven |      |      | 100  | W        |
| Power Supply Shutdown Voltage |  |      | 15.3 |      | V        |

Note 1 – The input impedance restriction is a limitation of power supply not the amplifier. The amplifier contains short circuit protection circuitry  
 Note 2 – The power supply is designed for music output – not sine wave output. If you wish to amplify sine waves, accurate measurements should be conducted at power output values of <100W RMS driving a single channel only.

**MAD2x100 layout diagram and connections description**  
**Automotive Demonstrator**



MAD2x100 layout is a representation only and is not to scale

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