

Drawn By: Adam Greig
Cambridge University Spaceflight

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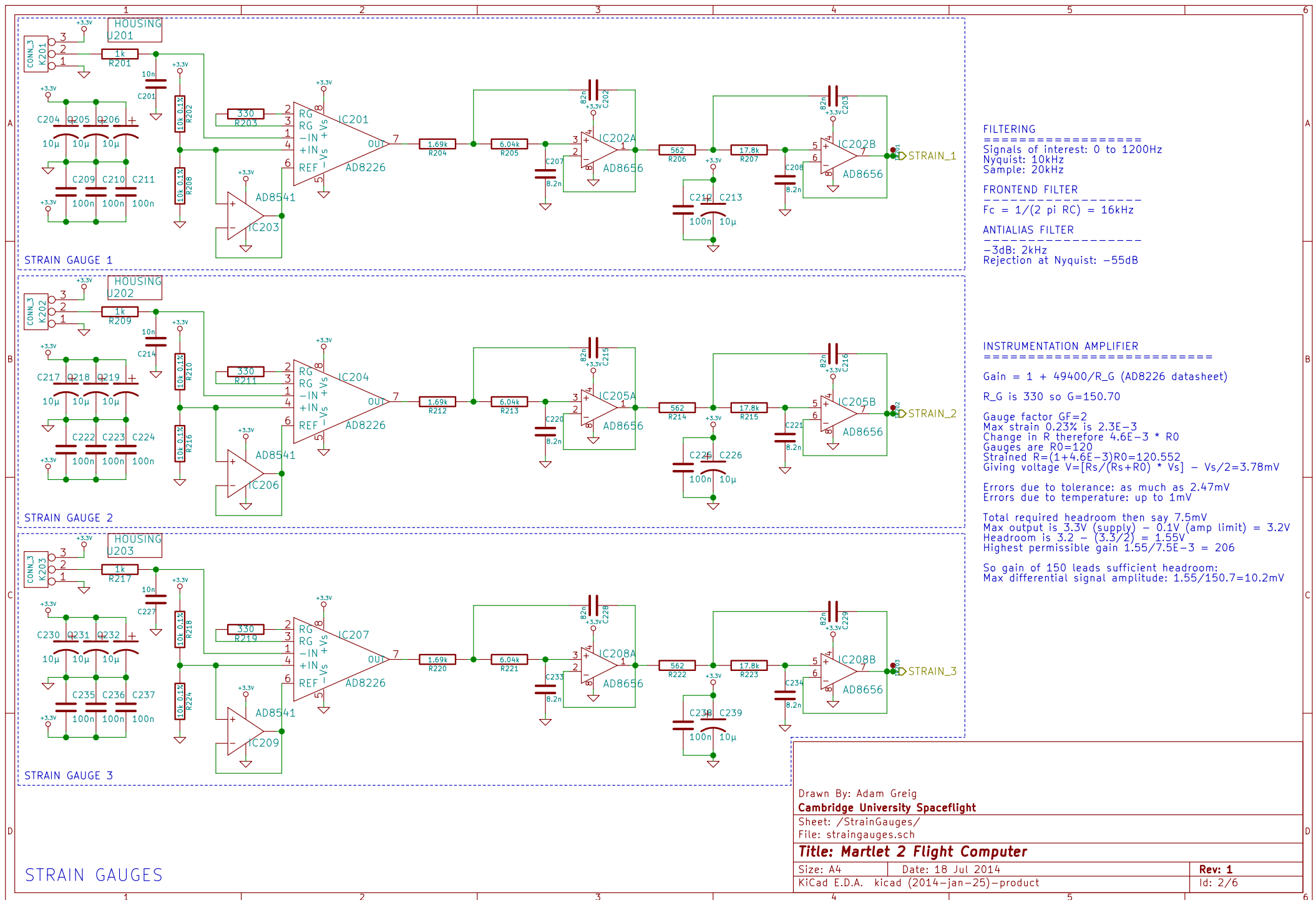
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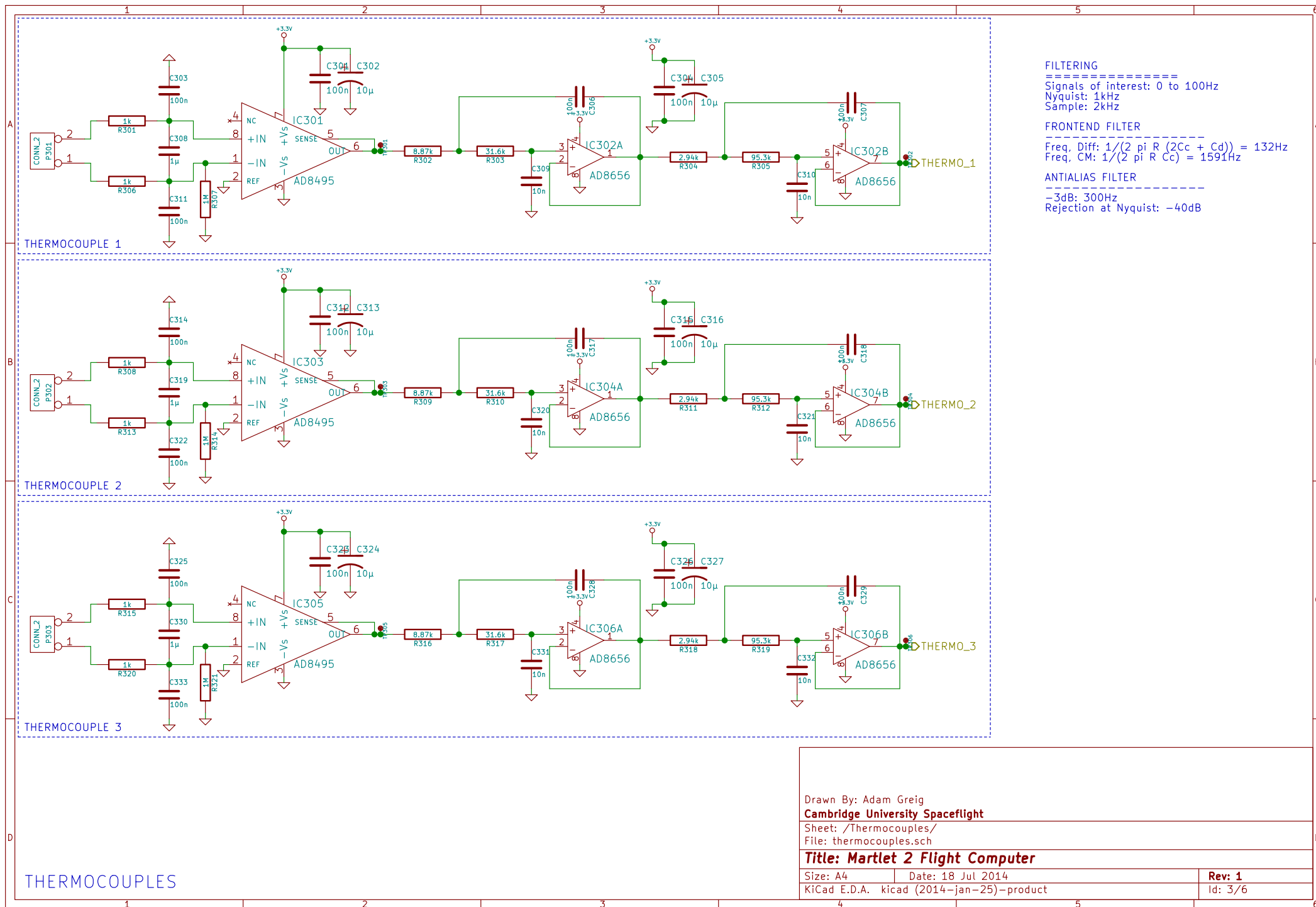
Size: A4 Date: 18 Jul 2014

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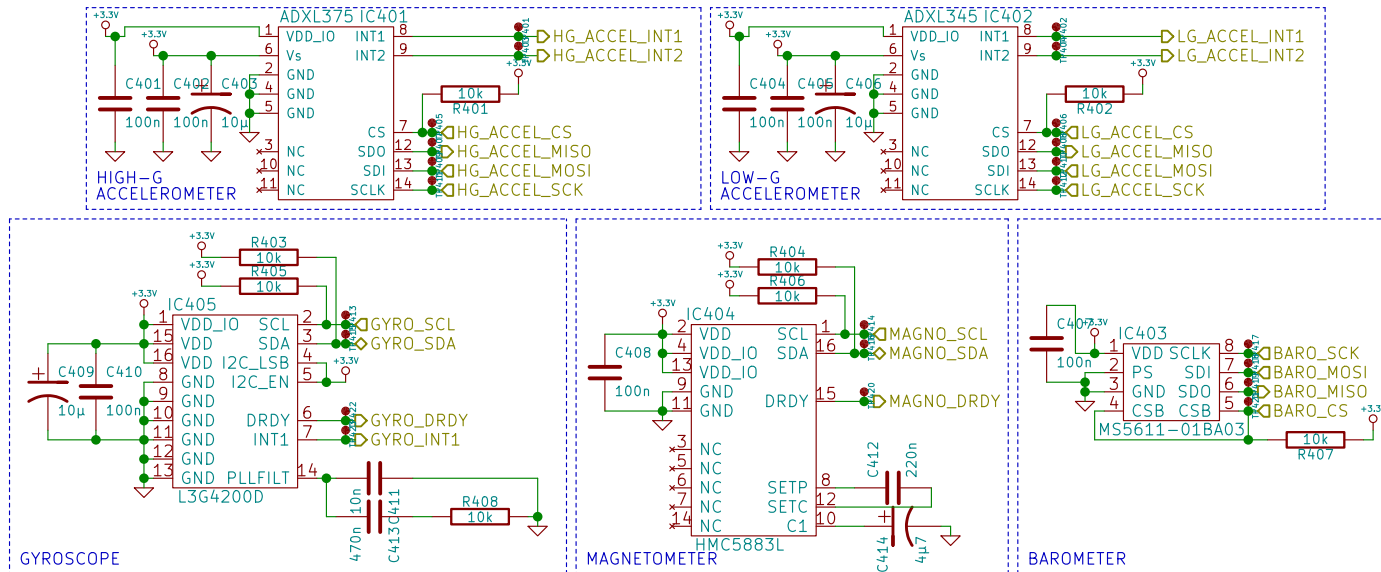
Rev: 1

Id: 1/6





INERTIAL MEASUREMENT UNIT



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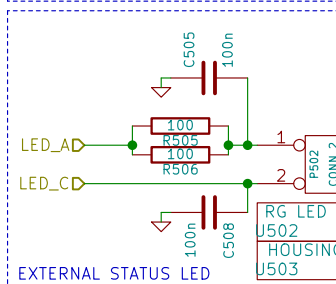
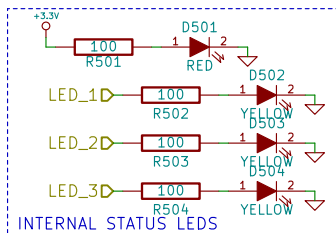
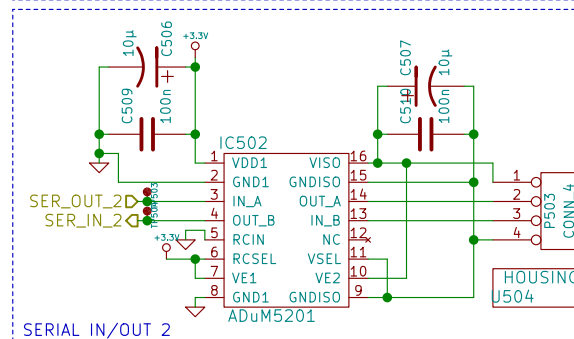
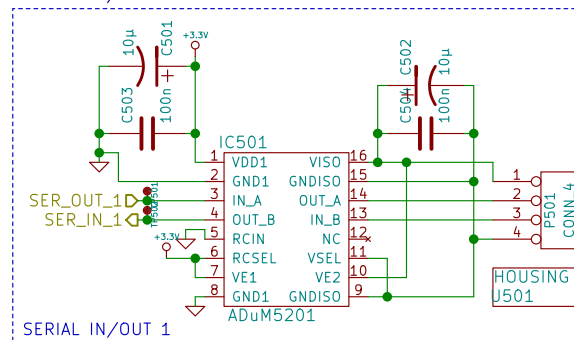
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Title: Martlet 2 Flight Computer

Size: A4 Date: 18 Jul 2014
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Rev: 1
Id: 4/6

INPUT/OUTPUT



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Sheet: /IO/
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Title: Martlet 2 Flight Computer

Size: A4 Date: 18 Jul 2014
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Rev: 1
Id: 5/6

Pyrotechnic Circuit 1

[illegible]

The diagram illustrates the internal wiring of the Pyrotechnic Module (PYRO_3) connected to the Housing (U603). Key components include:

- Power Supply:** A +3.3V supply is connected to the circuit.
- Resistors:** 10k resistors (R621, R622, R623, R624, R617) and 100 ohm resistors (R618, R619, R620) are used for signal conditioning and current limiting.
- Capacitors:** A 2200pF capacitor (C605) and a 100nF capacitor (C606) are used for decoupling and signal filtering.
- Diodes:** A 5V Zener diode (D603) and a 5V Zener diode (Q605) are used for voltage regulation and protection.
- Connections:** The circuit is connected to the PYRO_3_FID, PYRO_3_C, and PYRO_3_V pins of the module, and to the +BATT, GND, and P603 CONN.2 pins of the housing.

Rev: 1
Id: 6/6