

Notes:

- 1) Connect negative of power supplies to earth with 22AWG wire at one point only.
- 2) The RC snubber across the coils must be close to the coil, for loop stability.
- 3) Only first unipolar and last bipolar channels have "Disable" inputs and require appropriate TVS bypassing if FETs avalanche power is exceeded.
- 4) "Set Current" has 40mV deadband to ensure zero is off.
- 5) Set maximum voltage on HP6269B with front panel voltage control.
- 6) Circled components are white wired in.

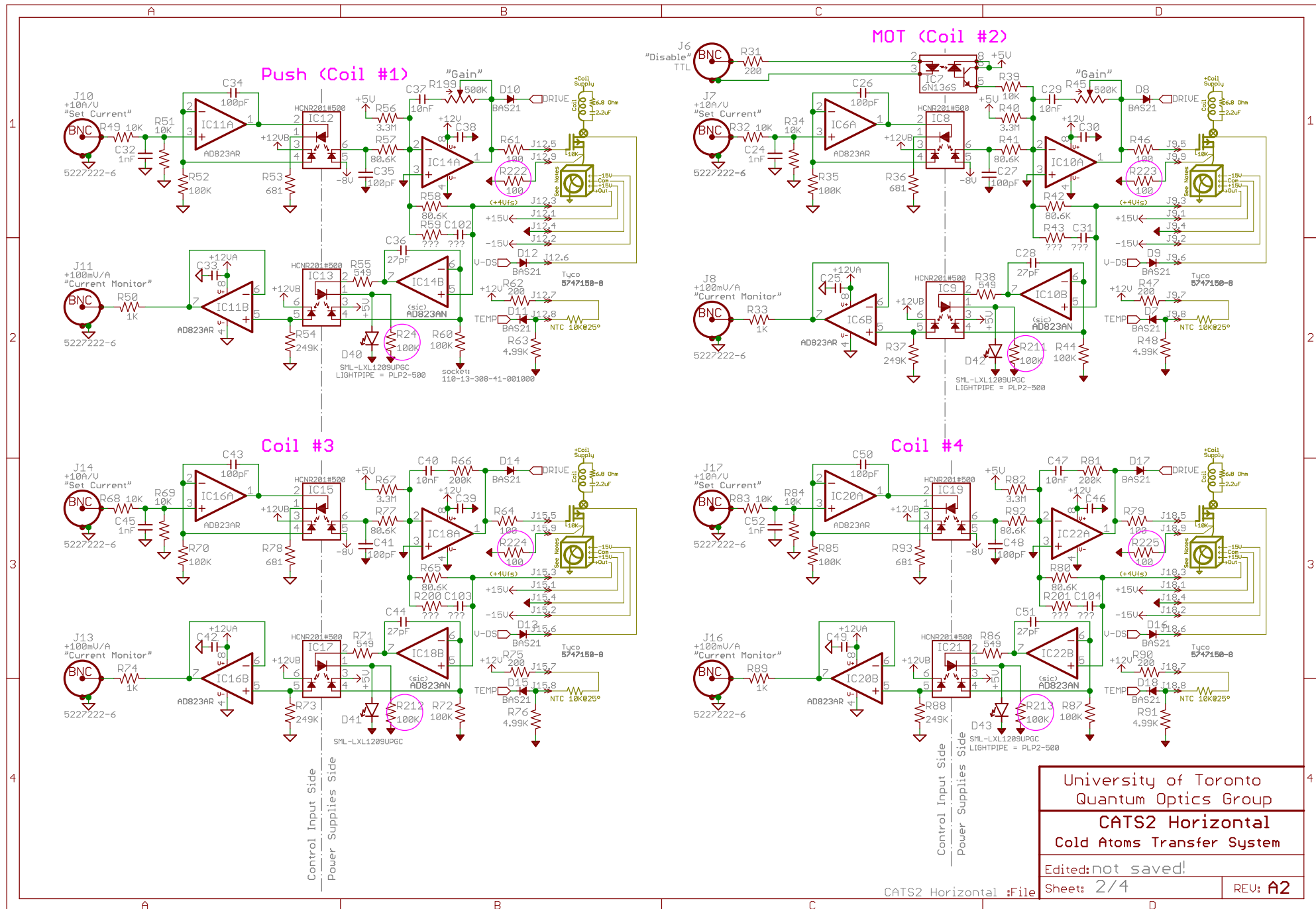
BOM for parts not on the PCB

- FETs: See chart at top right of this page. FETs are not carved in stone.
- Current sensor: LEM HAS-100-S or HAS-150-S. See chart on top right. Housing is Molex 0022011044 (AKA 22-01-1044) and crimp terminals 08-70-0057 (SPOX 5103 series).
- Thermistors: Epcos B57703M0103G040

Ltr	Date	By	Description
A2	Nov 2009	A.Stummer	As assembled on Rev:A PCB, white wired components circled.
A1	Nov 2009	A.Stummer	Original release on Rev:A PCB.

REVISIONS

University of Toronto Quantum Optics Group		CATS2 Horizontal Cold Atoms Transfer System	
Drawn: A.Stummer Nov'09		J.Thywissen Labs	
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 CATS2 Horizontal
 Cold Atoms Transfer System
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