

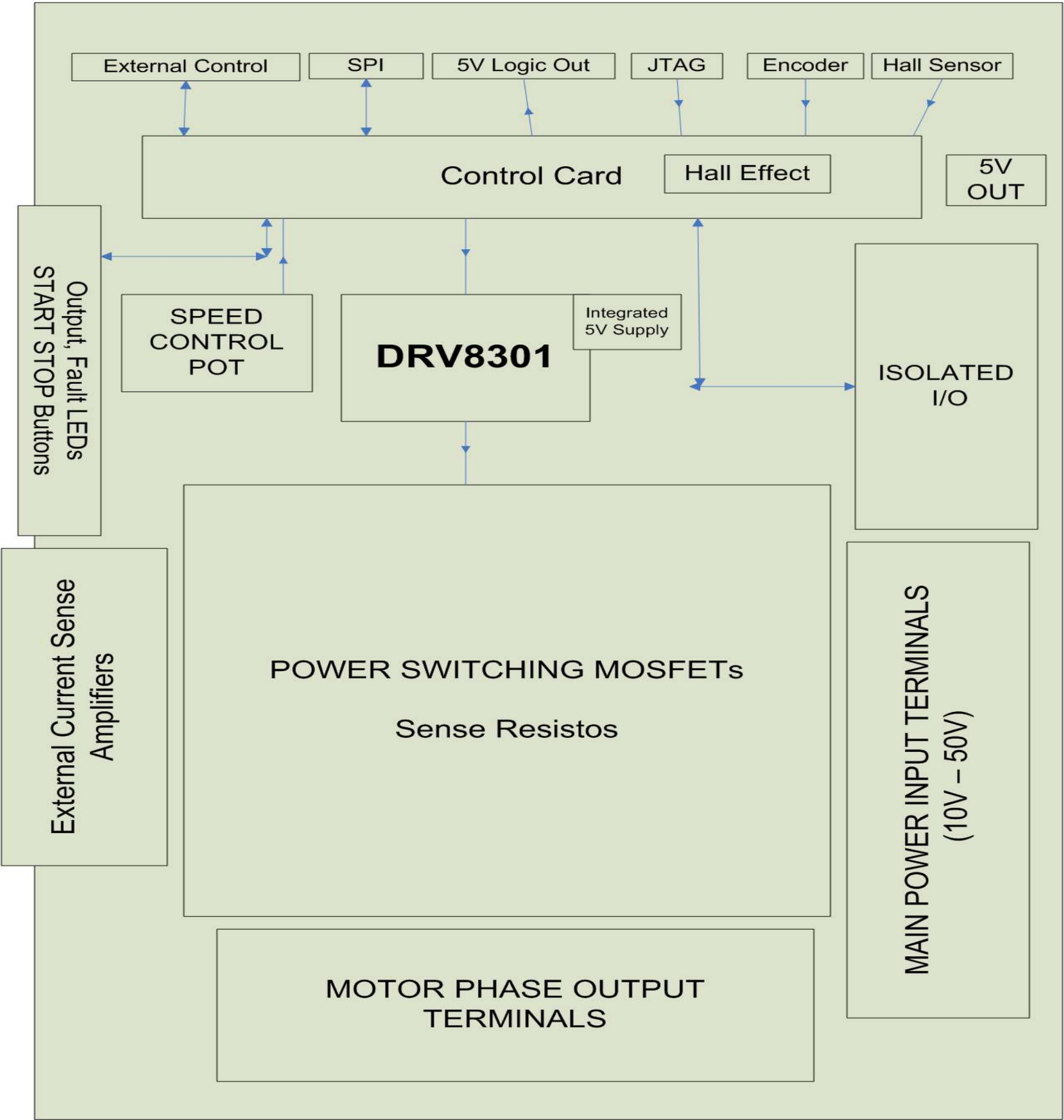
Notes - Unless otherwise noted
1. Resistances values in Ohms
2. Capacitance values in microfarads (uF)
3. All 0.1uF and 0.01uF capacitors are decoupling and should be placed near the IC they are shown with.

	REVISION HISTORY		
REV	DESCRIPTION	DATE	ENG
A1	INITIAL SCHEMATIC	04-08-2011	AIY
A2	REMOVED ANALOG SWITCHES CHANGED FEEDBACK	05-12-2011	AKS
A3	CHANGED THE SIZE OF THE SENSE RESITORS ADDED PULL-UP/PULL-DOWN ON SPI LINES REMOVED 0-OHM RESISTORS ON CURRENT SENSE	05-25-2011	AKS
B1	FIXED DRV8301 CURRENT SENSE POLARITY NO-POP ALL EXTERNAL CURRENT SENSE COMPONENTS CHANGED C14 TO 25V 0805 PACKAGE FETS CHANGED TO VISHAY SUM110N06-3M9H CHANGED CURRENT SENSE RESISTORS TO 2mOHM RECONFIGURED DC BUS CAPS SPLIT POWER CONNECTOR INTO TWO CONNECTORS	07-14-2011	JPW

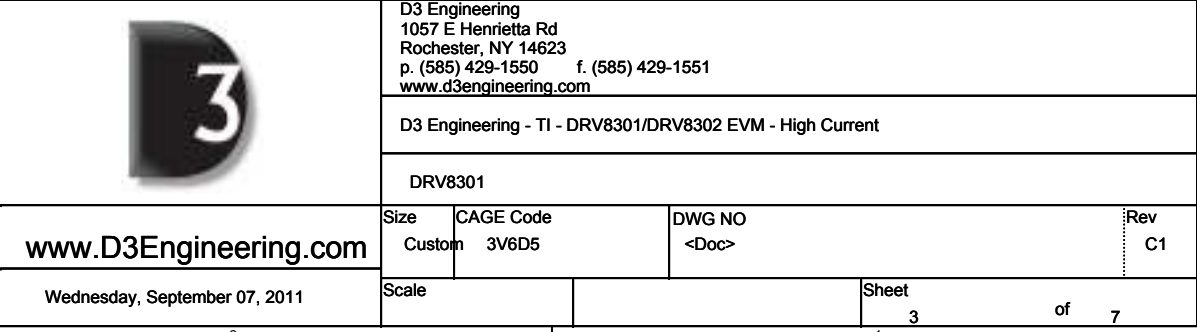
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Page 2 - Block Diagram
Page 3 - DRV8301/DRV8302
Page 4 - Isolation Circuitry
Page 5 - DIMM Socket - Connectors - Switches
Page 6 - Power Input - Voltage Regulators - Current Sense Amplifiers
Page 7 - Half Bridges - Motor Output

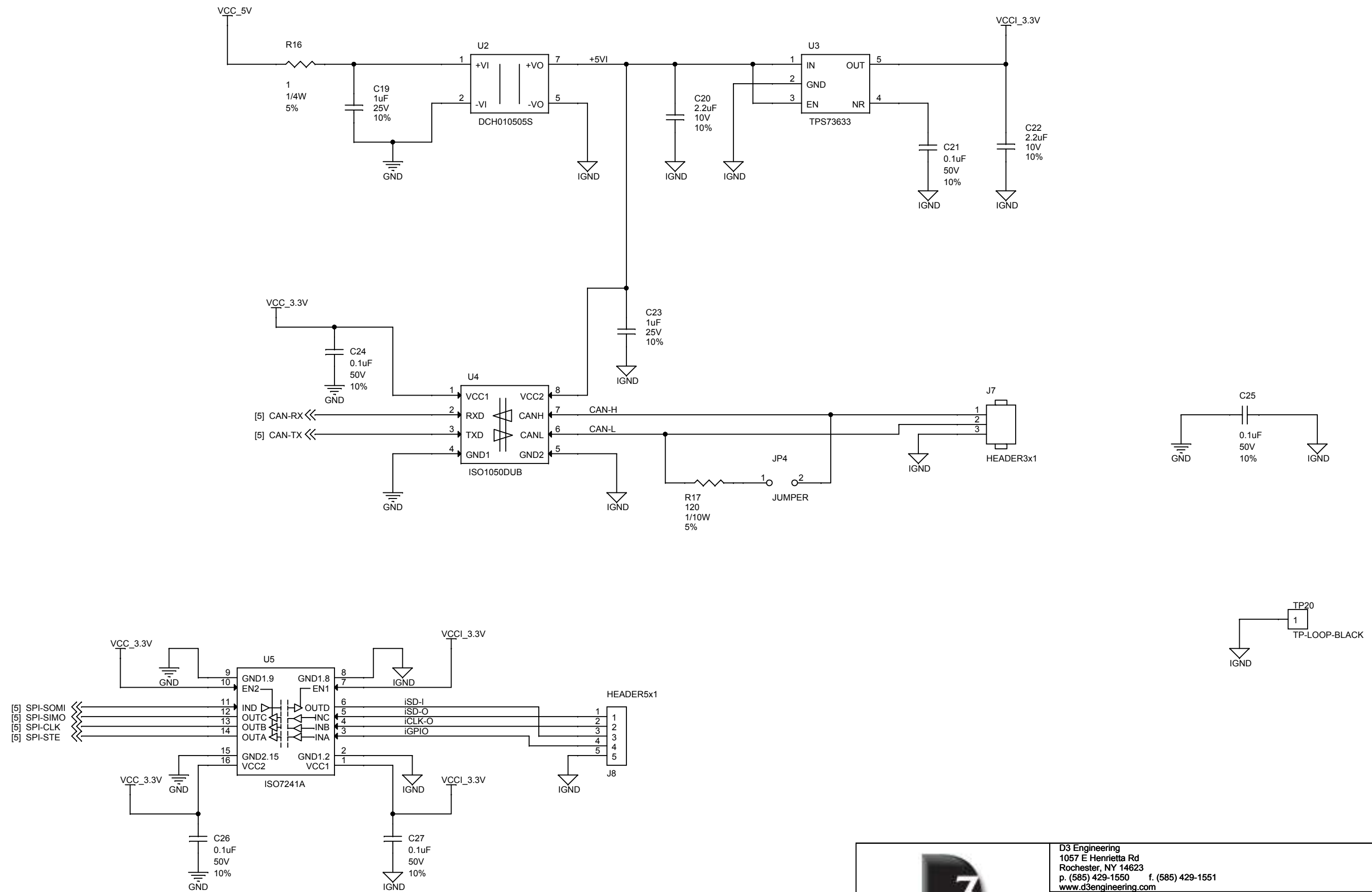
	D3 Engineering 1057 E Henrietta Rd Rochester, NY 14623 p. (585) 429-1550 f. (585) 429-1551 www.d3engineering.com			
	D3 Engineering - TI - DRV8301/DRV8302 EVM - High Current			
	Title - Index - Revisions			
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		3V6D5	<Doc>	C1
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DRV8301 EVM Block Diagram

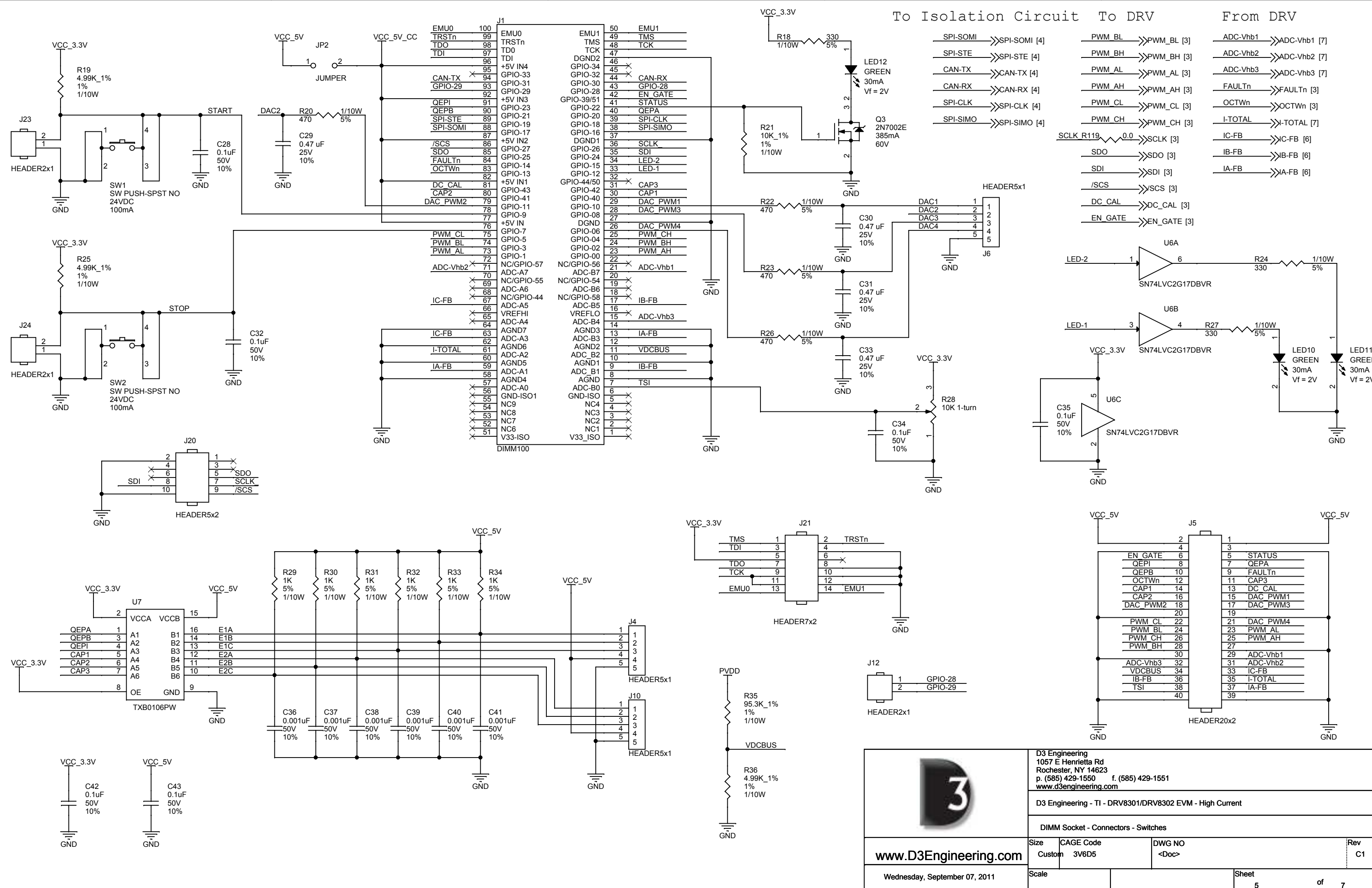


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	Block Diagram			
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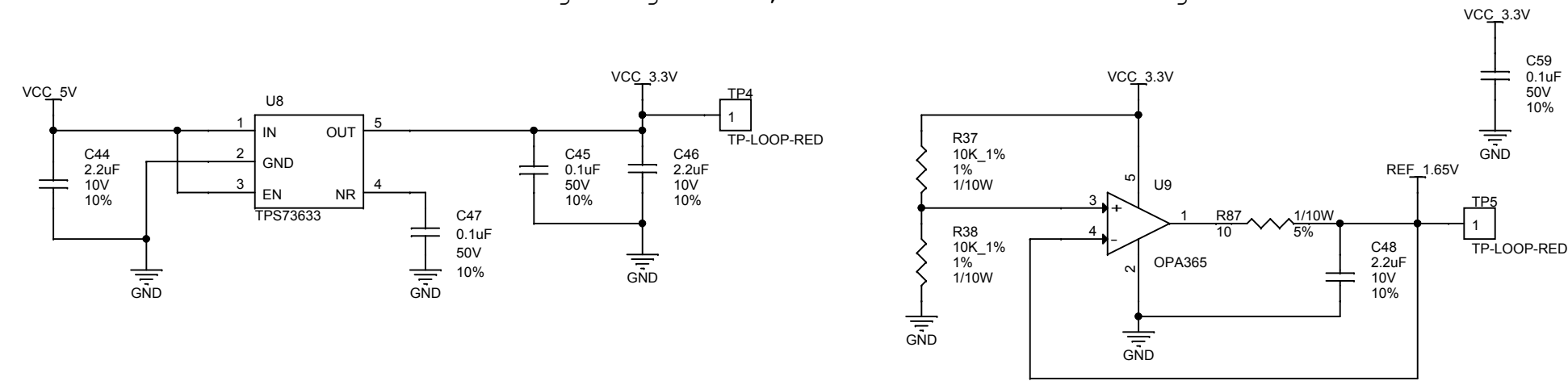
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DIMM Socket - Connectors - Switches

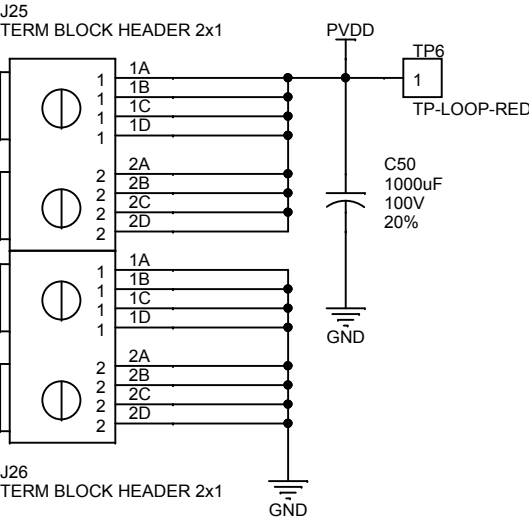
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3.3V Voltage Regulator, 1.65V Reference Voltage

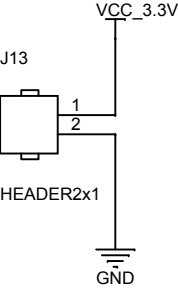


MAIN POWER IN

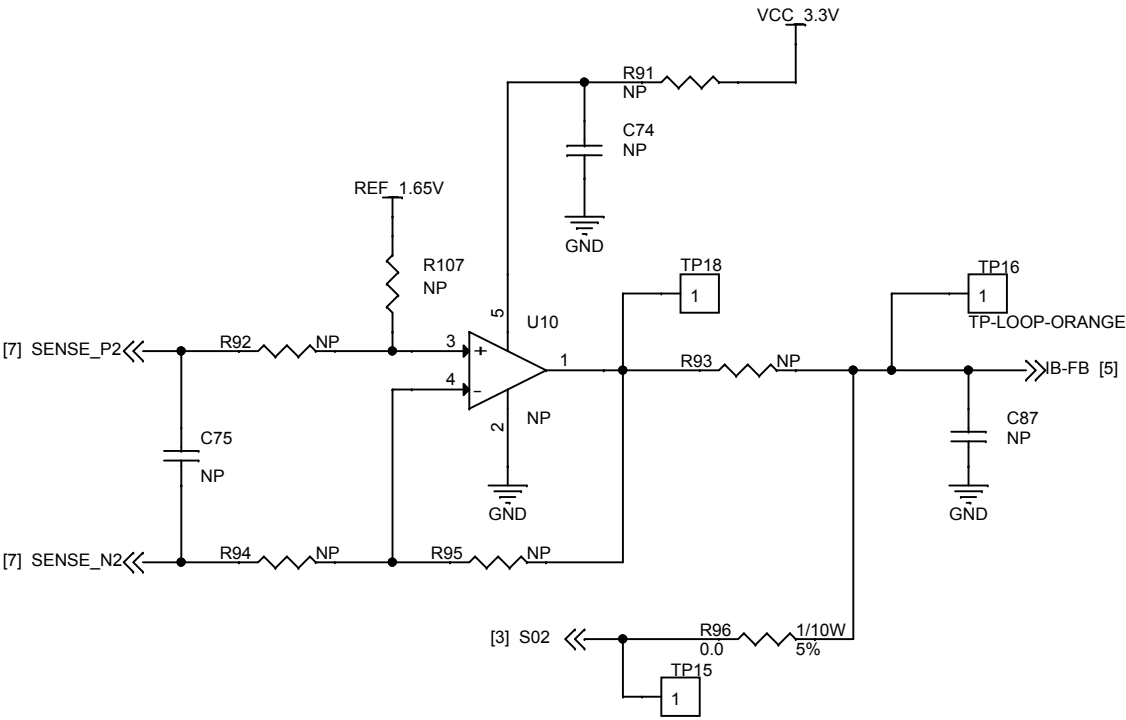
PVDD
NOM = 48V
MAX = 60V



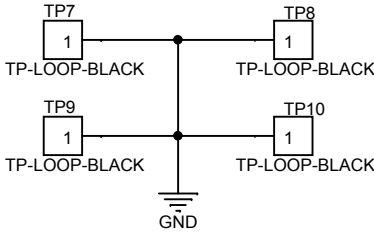
User Power Access



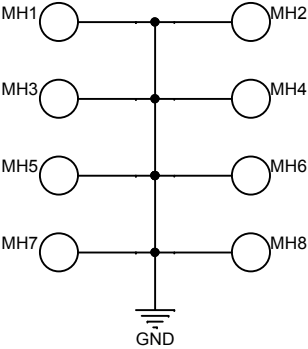
External Current Sense Amplifiers



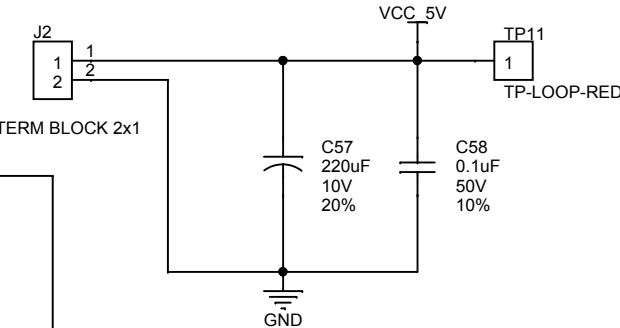
Ground Test Points



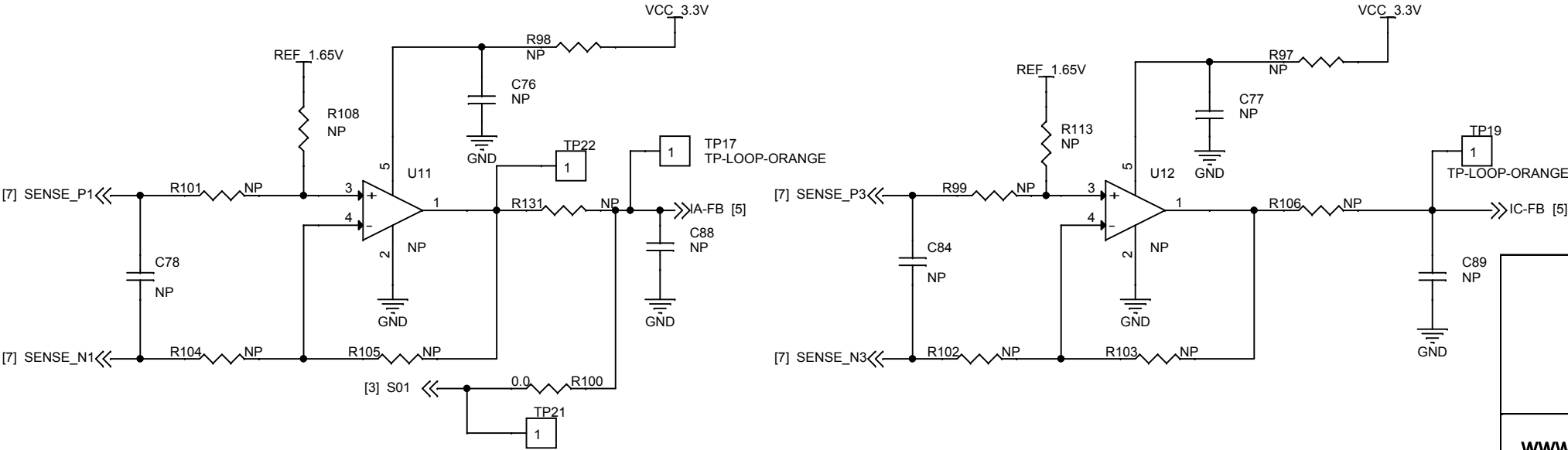
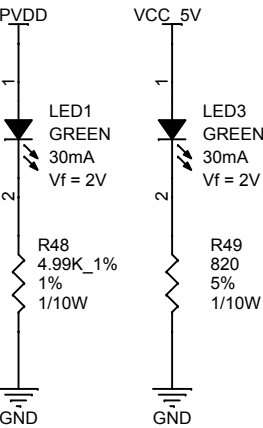
Mounting Holes



5V Output



Power Indicator LEDs



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