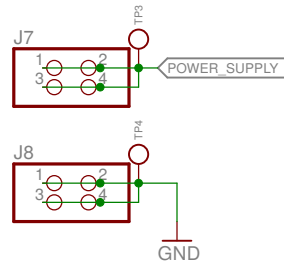
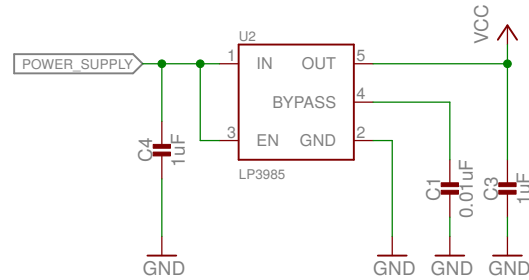




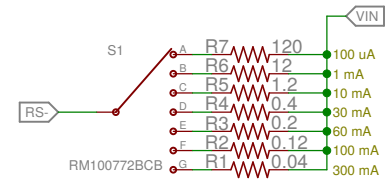
Power Supply Input



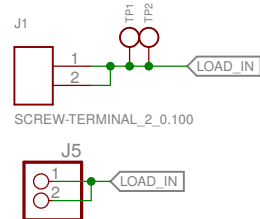
LDO



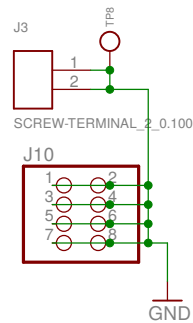
Range Select



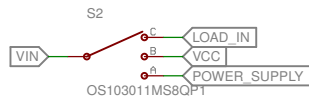
Test Input



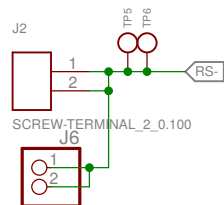
GND



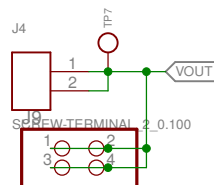
Load VCC Select



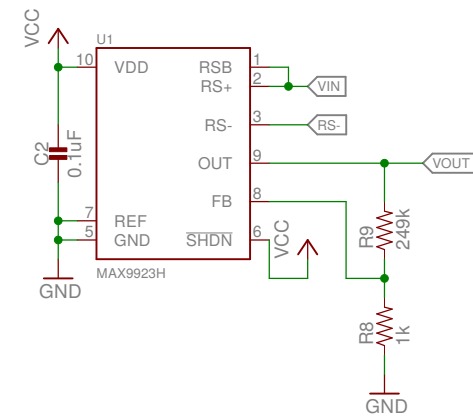
Connect to Load



Measurement Output



Sense Circuitry



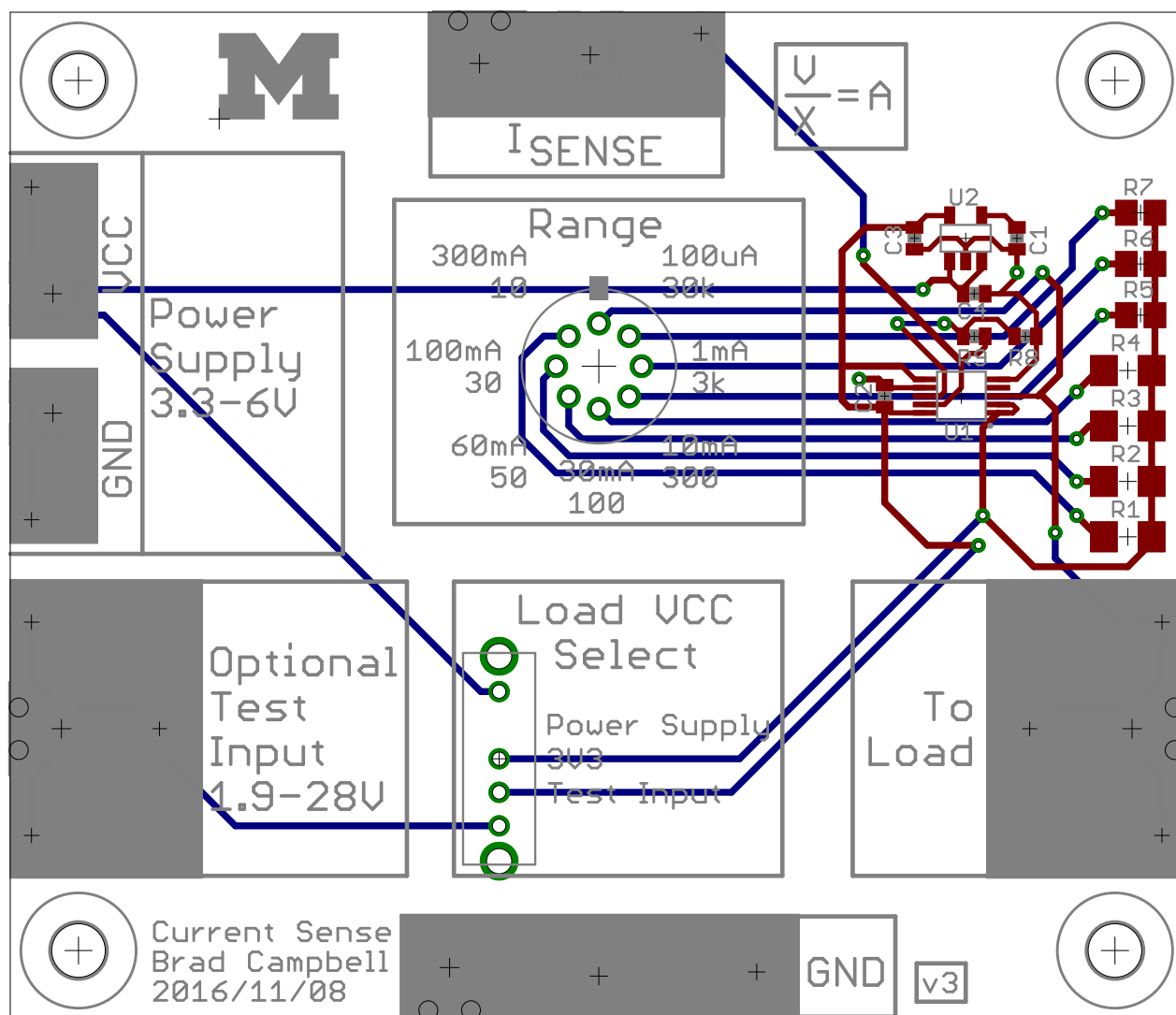
M Current Sense

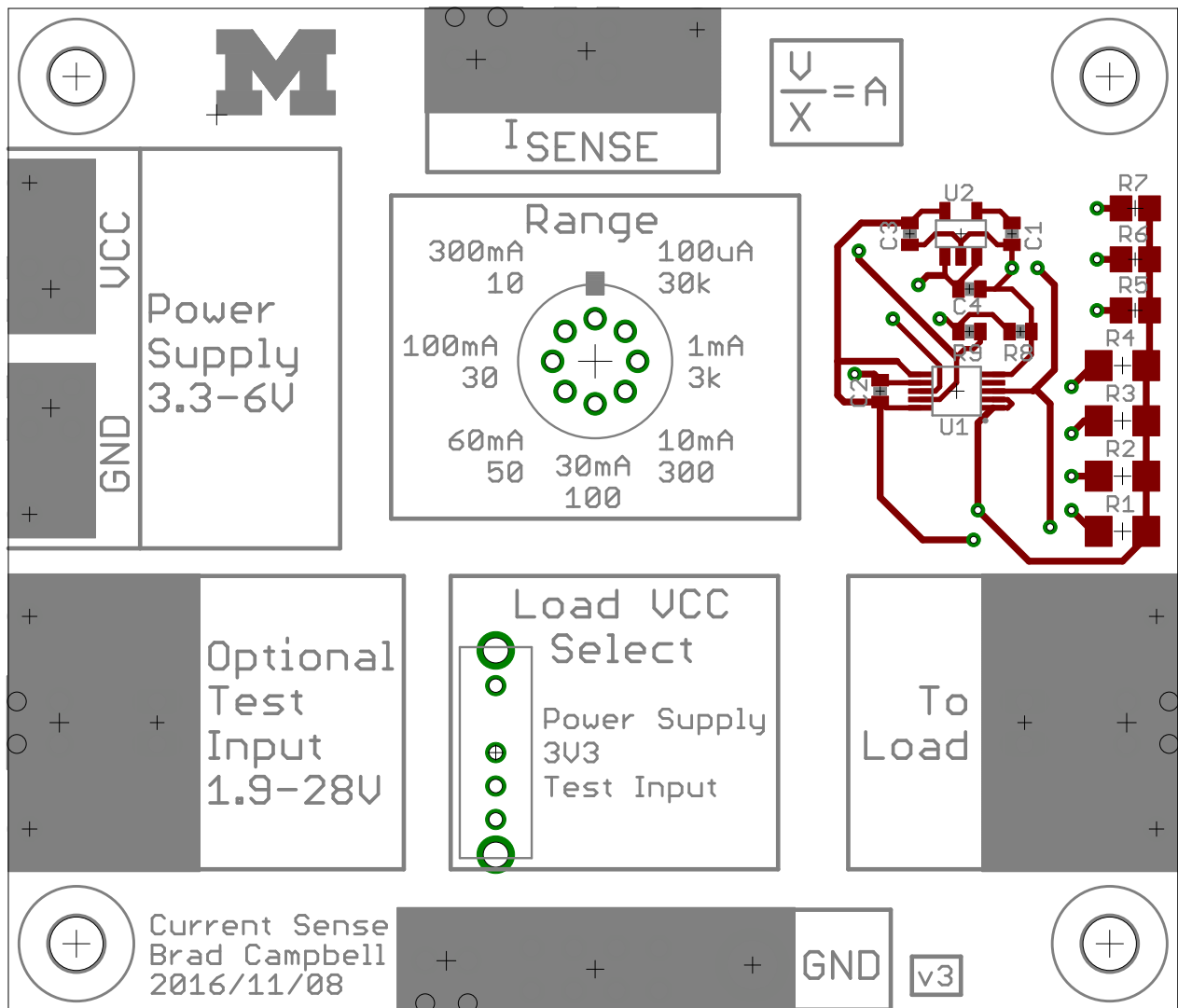
REV:
v3

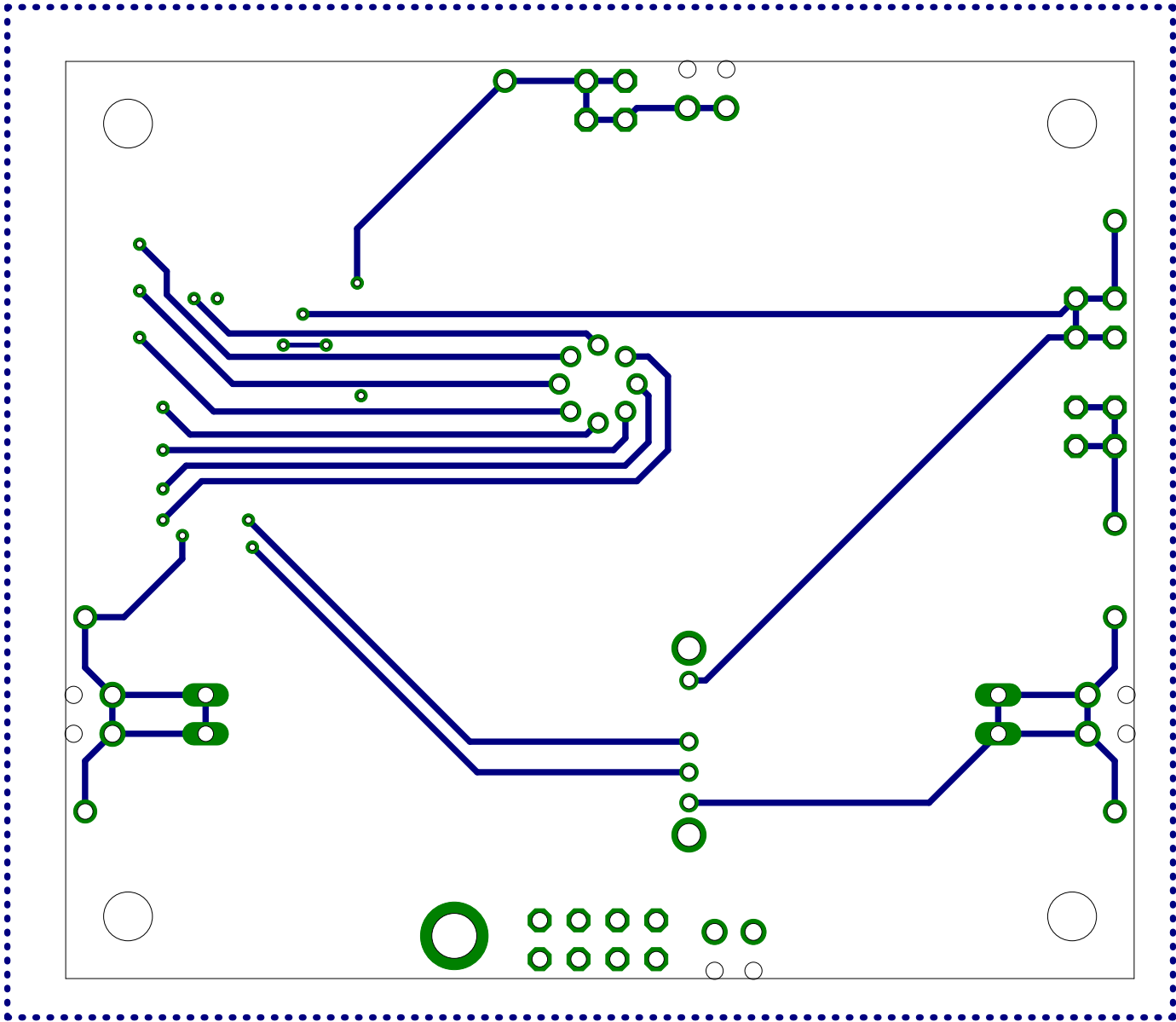
Author: Brad Campbell

Date: 11/9/16 5:34 PM

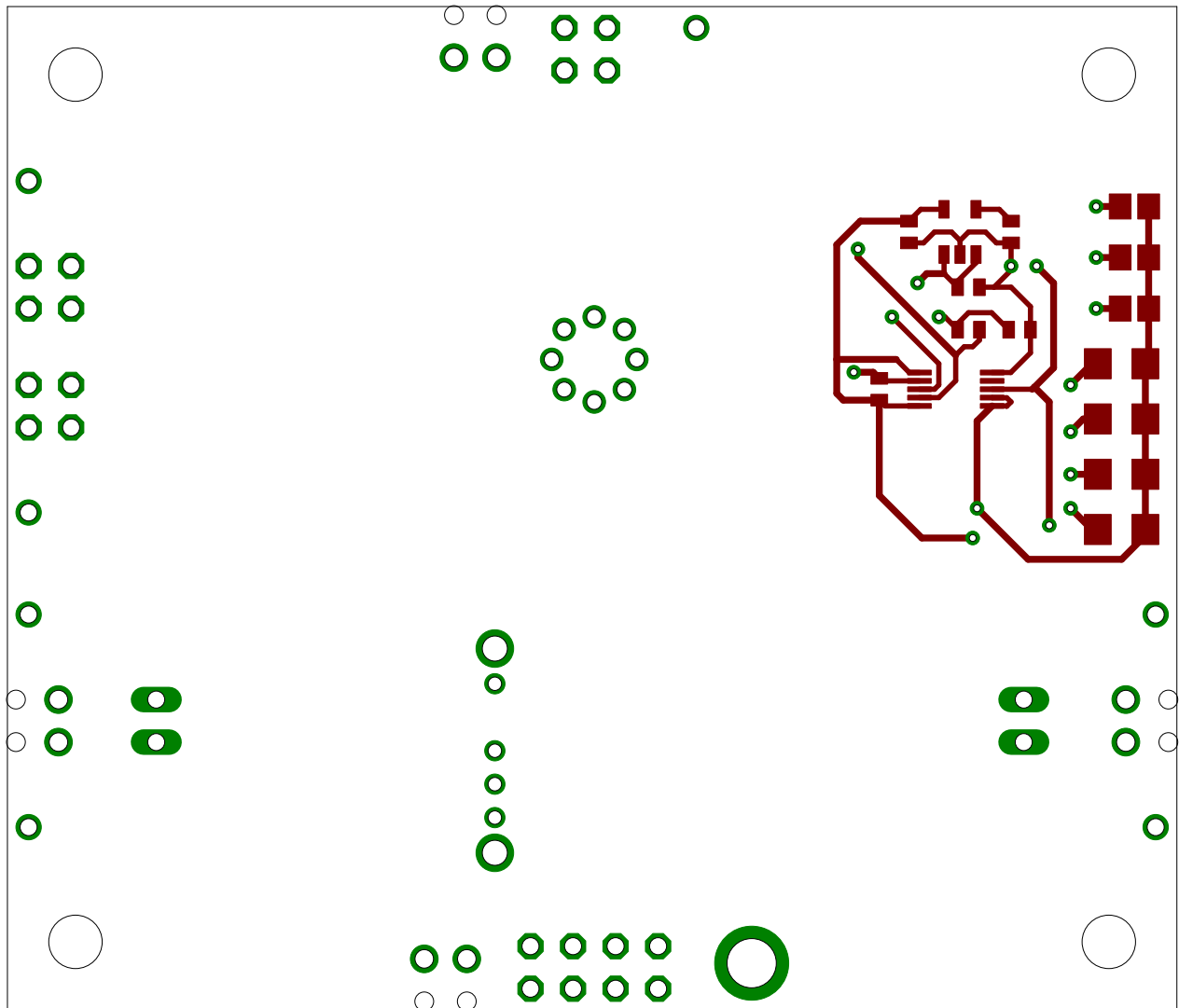
Sheet: 1/1



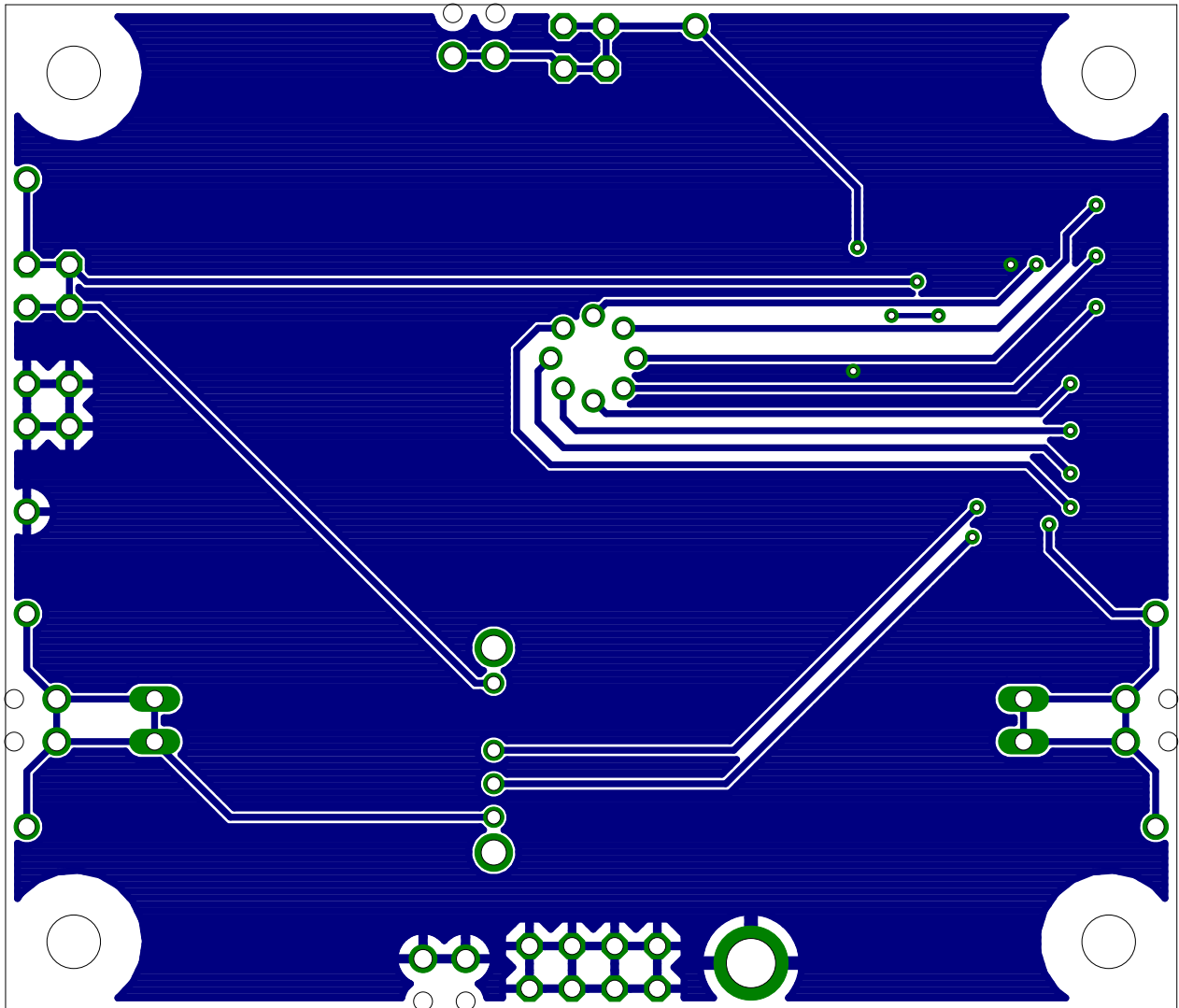


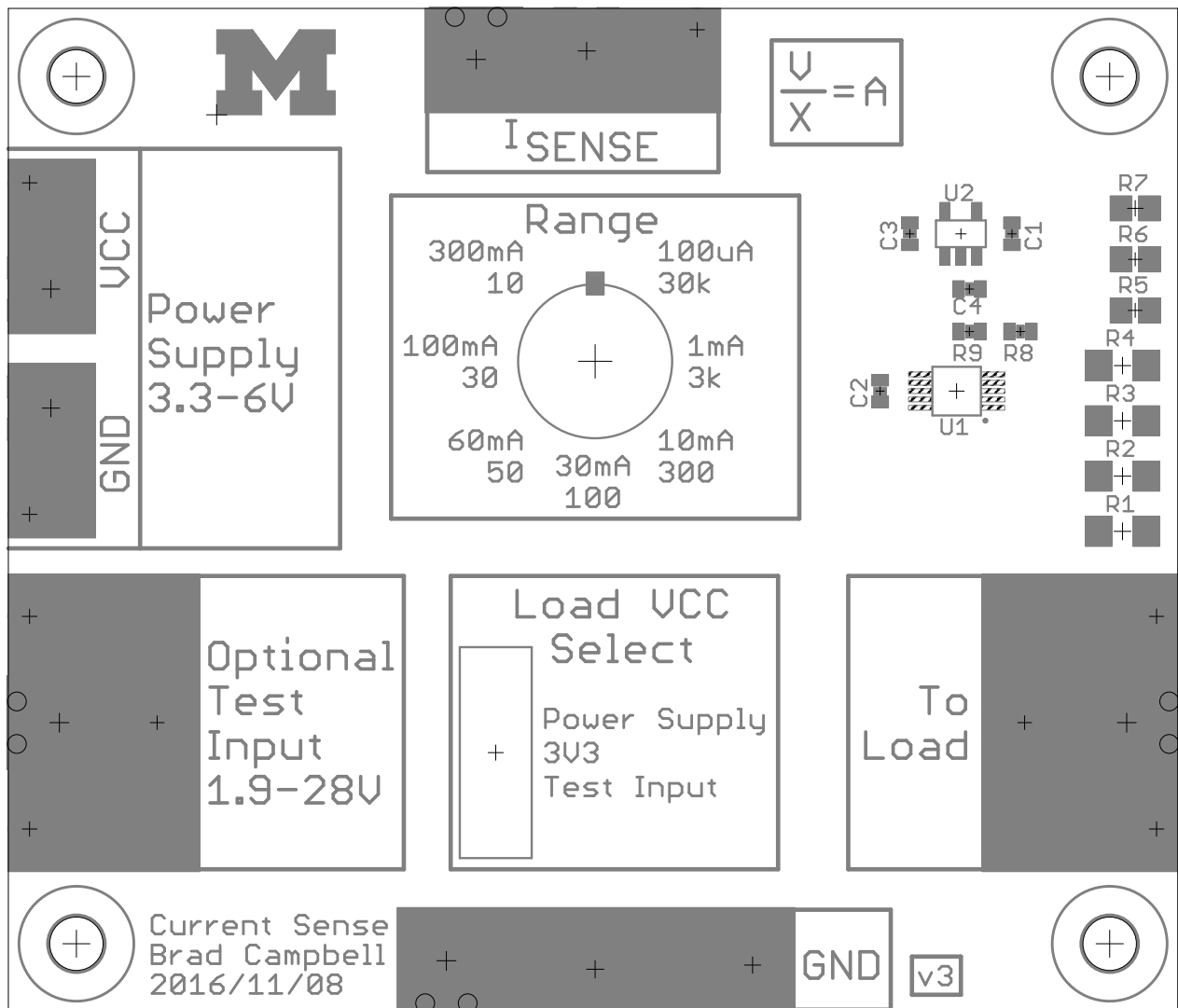


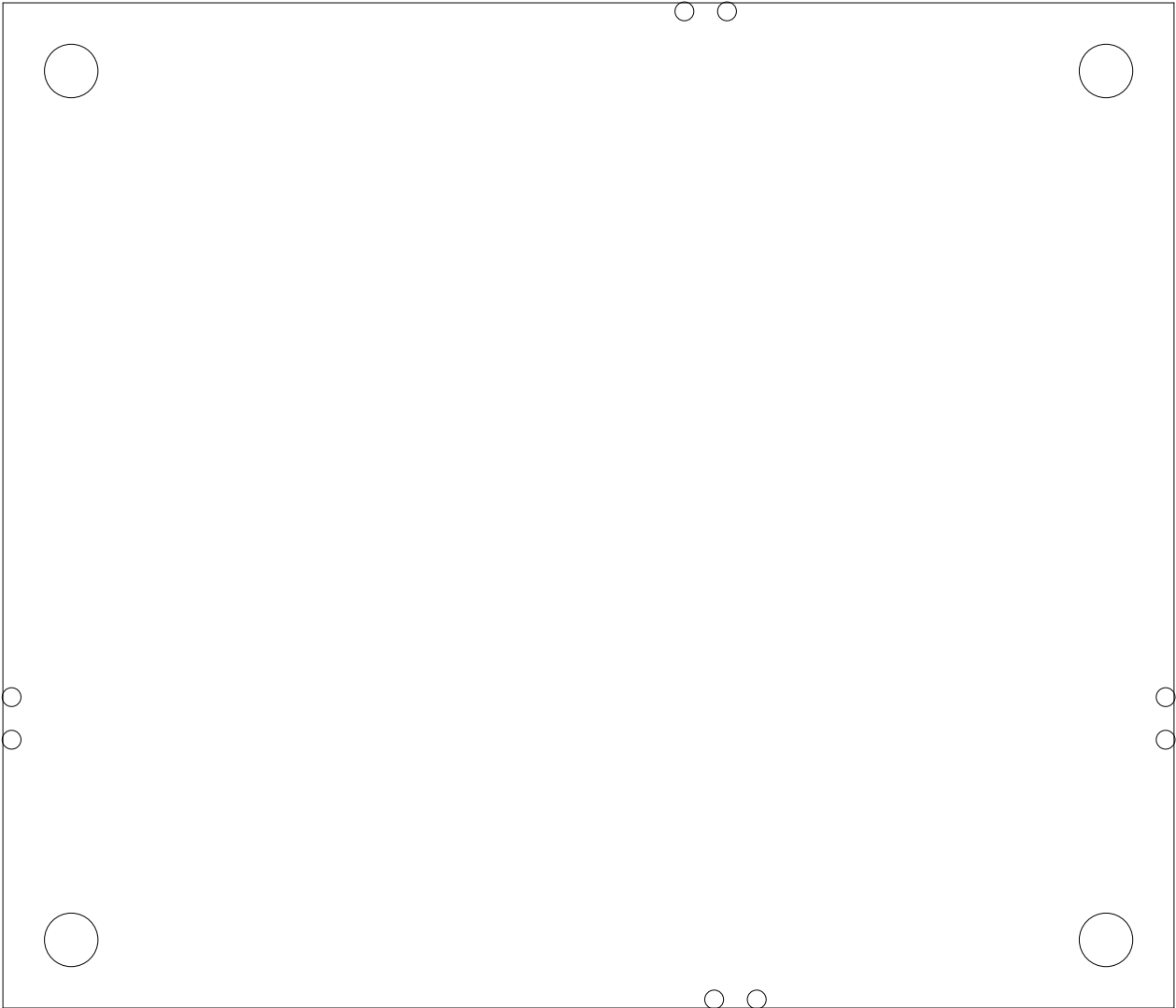
Top Copper Layer



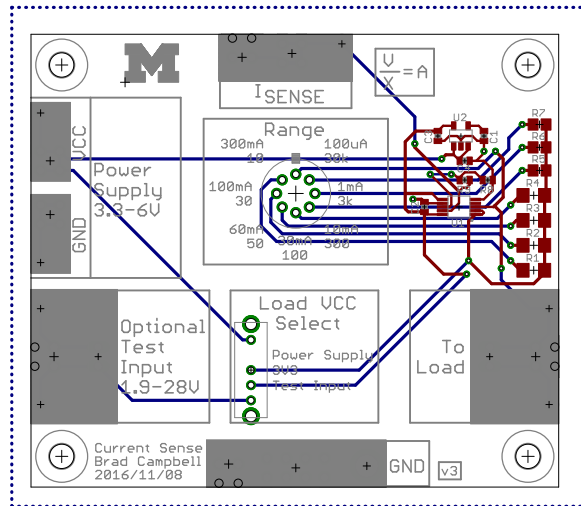
Bottom Copper Layer



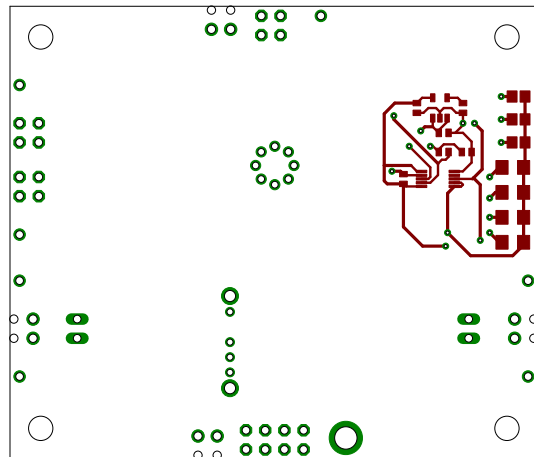




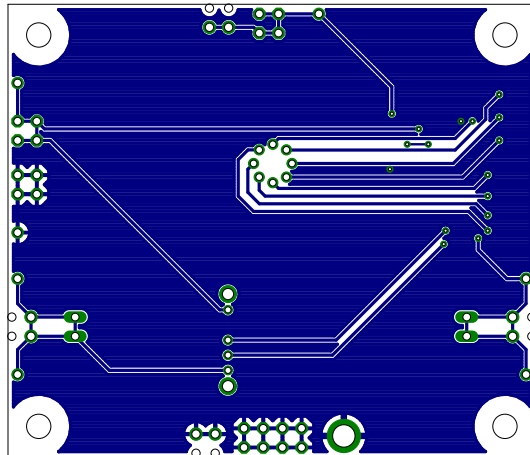
Top and Bottom Layers 1:1 Scale



Top Layer 1:1 Scale



Bottom Copper Layer 1:1 Scale



current_sense

Qty	Value	Device	Package
1	0.01uF	CAPACITOR0603_CAP	0603_CAP
1	0.1uF	CAPACITOR0603_CAP	0603_CAP
2	1uF	CAPACITOR0603_CAP	0603_CAP
4	SCREW-TERMINAL_2_0.100	SCREW-TERMINAL_2_0.100	CONN_BLOCK_2
2		PINHD-1X2	1X02
3		PINHD-2X2	2X02
1		PINHD-2X4	2X04
1	0.04	R-US_R1206	R1206
1	0.12	R-US_R1206	R1206
1	0.2	R-US_R1206	R1206
1	0.4	R-US_R1206	R1206
1	1.2	R-US_R0805	R0805
1	12	R-US_R0805	R0805
1	120	R-US_R0805	R0805
1	1k	RESISTOR0603_RES	0603-RES
1	249k	RESISTOR0603_RES	0603-RES
1	RM107772BCB	RM107772BCB	RM-SWITCH
1	OS103011MS8QP1	OS103011MS8QP1	OS102011MS8QP1
7	TEST_POINT_0.040IN	TEST_POINT_0.040IN	TESTPOINT_0.040IN
1	TEST_POINT_0.112IN	TEST_POINT_0.112IN	TESTPOINT_0.112IN
1	MAX9922	MAX9922	UMAX10
1	LP3985	LP3985	R-PDSO-G5

Parts

C1

C2

C3, C4

J1, J2, J3, J4

J5, J6

J7, J8, J9

J10

R1

R2

R3

R4

R5

R6

R7

R8

R9

S1

S2

TP1, TP2, TP3, TP4, TP5, TP6, TP7

TP8

U1

U2

current_sense

Description	DIGIKEY
0402 Capacitor	445-1304-1-ND
0402 Capacitor	445-1316-1-ND
0402 Capacitor	445-1604-1-ND
2x 0.100 in screw terminal block	277-1273-ND
PIN HEADER	
PIN HEADER	
PIN HEADER	
RESISTOR, American symbol	311-.04LWCT-ND
RESISTOR, American symbol	RL16R.12FCT-ND
RESISTOR, American symbol	CSR1206FKR200CT-ND
RESISTOR, American symbol	311-.4LWCT-ND
RESISTOR, American symbol	RL12S1.2FCT-ND
RESISTOR, American symbol	A103150CT-ND
RESISTOR, American symbol	RG20N120WCT-ND
Resistor	P1.0KDBCT-ND
Resistor	P249KDBCT-ND
Rotary Switch 8 Position SP7T 500mA (DC) 24VDC Through Hole	CKN10705-ND
Slide Switch SP3T Through Hole	CKN9543-ND
0.040in Test Point	5001K-ND
Solder terminal, turreted	
The MAX9922/MAX9923 ultra-precision, high-side current-	MAX9922EUB+TCT-ND
Linear Voltage Regulator IC Positive Fixed 1 Output 3.3V 150mA SOT-23-5	LP3985IM5-3.3/NOPBCT-ND

current_sense

<u>MOUSER</u>	<u>NEWARK</u>
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651-1725656	71C4107
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