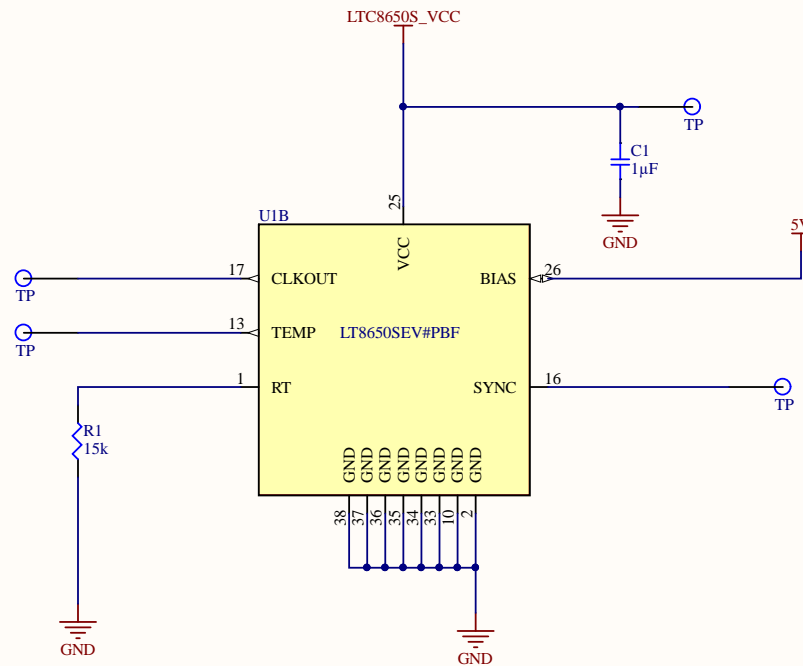


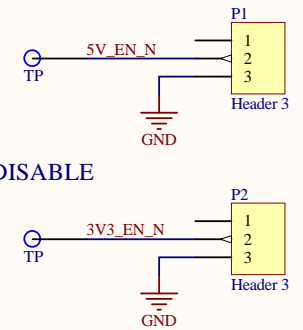
VBUS --> 5V
VBUS --> 3V3
CONTROL


Design: Soft-Start Time TBD
Design: Switching Frequency 2MHz
Design: FCM W/O SSM OR SYNC

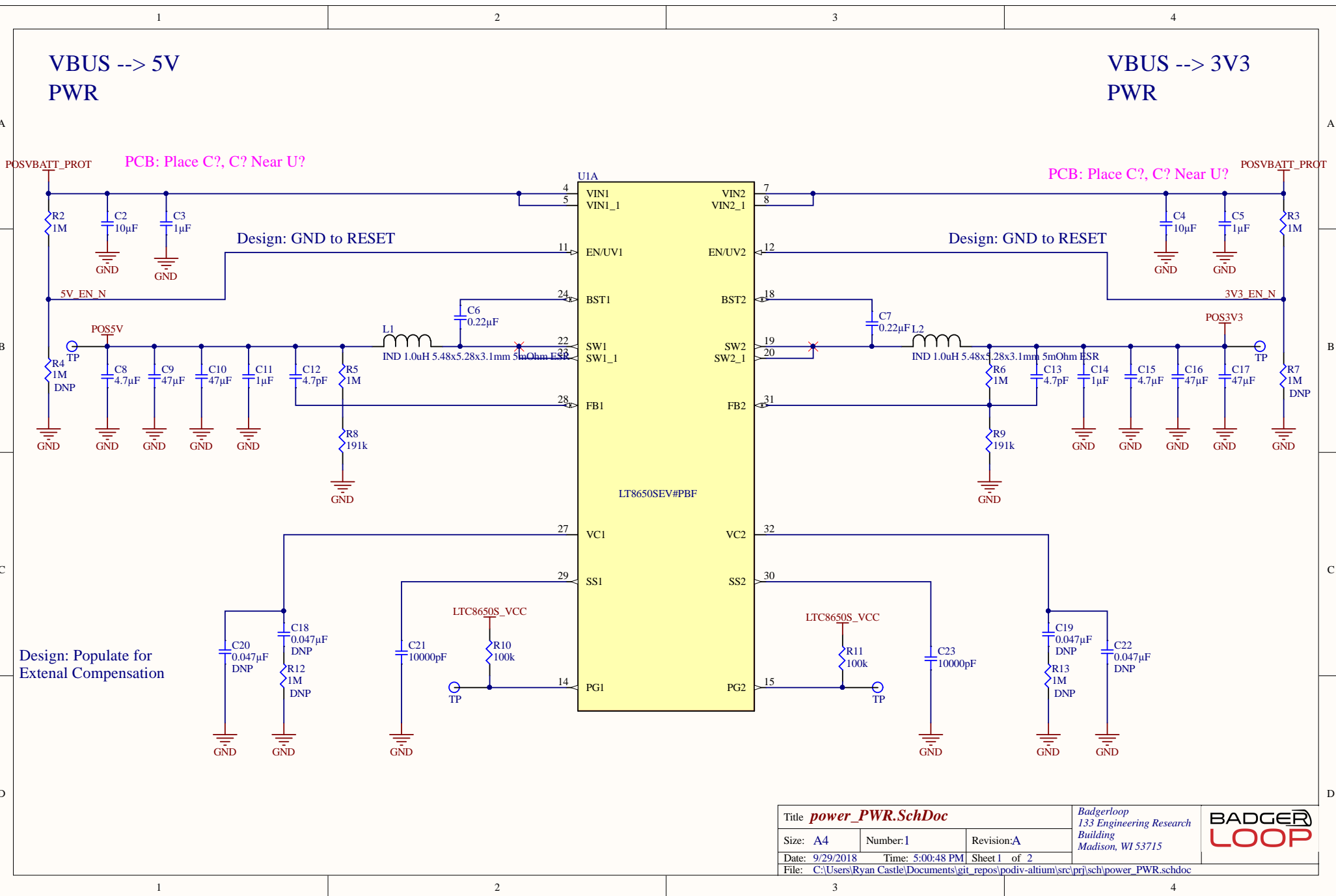
Design: LT8650S
Vout1: 5V 4A
Vout2: 3.3V 4A



Operation: Float *_EN_N
TO ENABLE, GND TO DISABLE



Title <i>power_CTL.schdoc</i>			Badgerloop 133 Engineering Research Building Madison, WI 53715 
Size: A4	Number: 1	Revision: A	
Date: 9/29/2018	Time: 5:00:47 PM	Sheet 1 of 2	
File: C:\Users\Ryan Castle\Documents\git_repos\podiv-altium\src\prj\sch\power_CTL.schdoc			



1	2	3	4
A			A
B			B
C			C
D			D
1	2	3	4

Title	nav_main_connector.schdoc		<div> <div>Badgerloop</div> <div>133 Engineering Research Building</div> <div>Madison, WI 53715</div> </div> <div>BADGER LOOP</div>
Size:	A4	Number: 1	
Date:	9/29/2018	Time: 5:00:48 PM	
File:			C:\Users\Ryan Castle\Documents\git_repos\podiv-altium\src\prj\sch\power_main_connector.SchDoc

Bill of Materials

BADGERLOOP

Source Data From:

power_project.PrjPCB

Project:

power_project.PrjPCB

Variant:

None

Calculate Pricing

Resize Rows/Shade

Creation Date:

9/29/2018

5:00:52 PM

Print Date:

29-Sep-18

5:01:11 PM

Production Quantity:

1

Currency:

<none>

Unhide/Hide Supplier 1

Unhide/Hide Supplier 2

Unhide/Hide Assem Manf

Reference	Designator	Description	Manufacturer	#Column Name Error	Quantity	#Column Name Error:Supplier 1	#Column Name Error:Supplier 2	#Column Name Error:Supplier 3	#Column Name Error:Supplier 4	Supplier Unit Price	Supplier 1 Subtotal	#Column Name Error:Supplier 2	#Column Name Error:Supplier 3	#Column Name Error:Supplier 4	Supplier Unit Price	Supplier 2 Subtotal	#Column Name Error:Supplier 2	#Column Name Error:Supplier 3	#Column Name Error:Supplier 4	Assem Unit	Assem Subtotal	
<Parameter Reference>	C1, C11, C14	CAP CER 1UF 50V X5R 0603	Murata Electronics North America		3					\$	-											
<Parameter Reference>	C2, C4	CAP CER 10UF 50V X5R 1206	Murata Electronics North America		2					\$	-											
<Parameter Reference>	C3, C5	CAP CER 1UF 50V X7R 0805	Murata Electronics North America		2					\$	-											
<Parameter Reference>	C6, C7	CAP CER 0.22UF 25V X7R 0603	Murata Electronics North America		2					\$	-											
<Parameter Reference>	C8, C15	CAP CER 4.7UF 25V X5R 0603	Murata Electronics North America		2					\$	-											
<Parameter Reference>	C9, C10, C16, C17	CAP CER 47UF 10V X5R 1206	Murata Electronics North America		4					\$	-											
<Parameter Reference>	C12, C13	CAP CER 4.7PF 50V NP0 0603	Murata Electronics North America		2					\$	-											
<Parameter Reference>	C18, C19, C20, C22	CAP CER 0.047UF 16V X7R 0402	Murata Electronics North America		4					\$	-											
<Parameter Reference>	C21, C23	CAP CER 10000PF 25V X7R 0603	Murata Electronics North America		2					\$	-											
<Parameter Reference>	C24	CAP CER 4.7UF 50V X5R 0805	Murata Electronics North America		1					\$	-											
<Parameter Reference>	C25, C26	CAP CER 10000PF 250V X7T 0805	TDK Corporation		2					\$	-											
<Parameter Reference>	CLD1, CLD2, CLD3	DIODE CURRENT LIMITING SINGLE SM	Central Semiconductor Corp		3					\$	-											
<Parameter Reference>	D1	Default Diode			1					\$	-											
<Parameter Reference>	D2, D3, D4	Typical RED, GREEN, YELLOW, AMBER GaAs LED			3					\$	-											
<Parameter Reference>	L1, L2	XFL5030-102ME			2					\$	-											
<Parameter Reference>	P1, P2, P3	Header, 3-Pin			3					\$	-											
<Parameter Reference>	R1	RES SMD 15K OHM 5% 1/10W 0402	Panasonic Electronic Components		1					\$	-											
<Parameter Reference>	R2, R3, R4, R5, R6, R7, R12, R13, R14	RES SMD 1M OHM 1% 1/10W 0402, RES SMD 1M OHM 5% 1/10W 0402	Panasonic Electronic Components		9					\$	-											
<Parameter Reference>	R8, R9	RES SMD 191K OHM 1% 1/10W 0402	Panasonic Electronic Components		2					\$	-											
<Parameter Reference>	R10, R11	RES SMD 100K OHM 5% 1/10W 0402	Panasonic Electronic Components		2					\$	-											
<Parameter Reference>	R15	RES SMD 56K OHM 5% 1/10W 0402	Panasonic Electronic Components		1					\$	-											
<Parameter Reference>	R16	RES SMD 510K OHM 5% 1/10W 0402	Panasonic Electronic Components		1					\$	-											
<Parameter Reference>	R17, R18	RES SMD 0.0OHM JUMPER 1/10W 0402	Panasonic Electronic Components		2					\$	-											
<Parameter Reference>	R19	RES SMD 36K OHM 1% 1/10W 0402	Panasonic Electronic Components		1					\$	-											
<Parameter Reference>	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14				14					\$	-											
<Parameter Reference>	U1	LT8650S - Dual Channel 4A, 42V, Synchronous Step-Down Silent Switcher 2 with 6.2AµA Quiescent Current			1					\$	-											
<Parameter Reference>	U2	Mosfet Array 2 N-Channel (Dual) 30V 8.5A 3.1W Surface Mount 8-SO			1					\$	-											
<Parameter Reference>	U3	Overvoltage,Undervoltage and ReverseSupply Protection Controller			1					\$	-											
Approved					74					\$	-					\$	-				\$	-

Notes