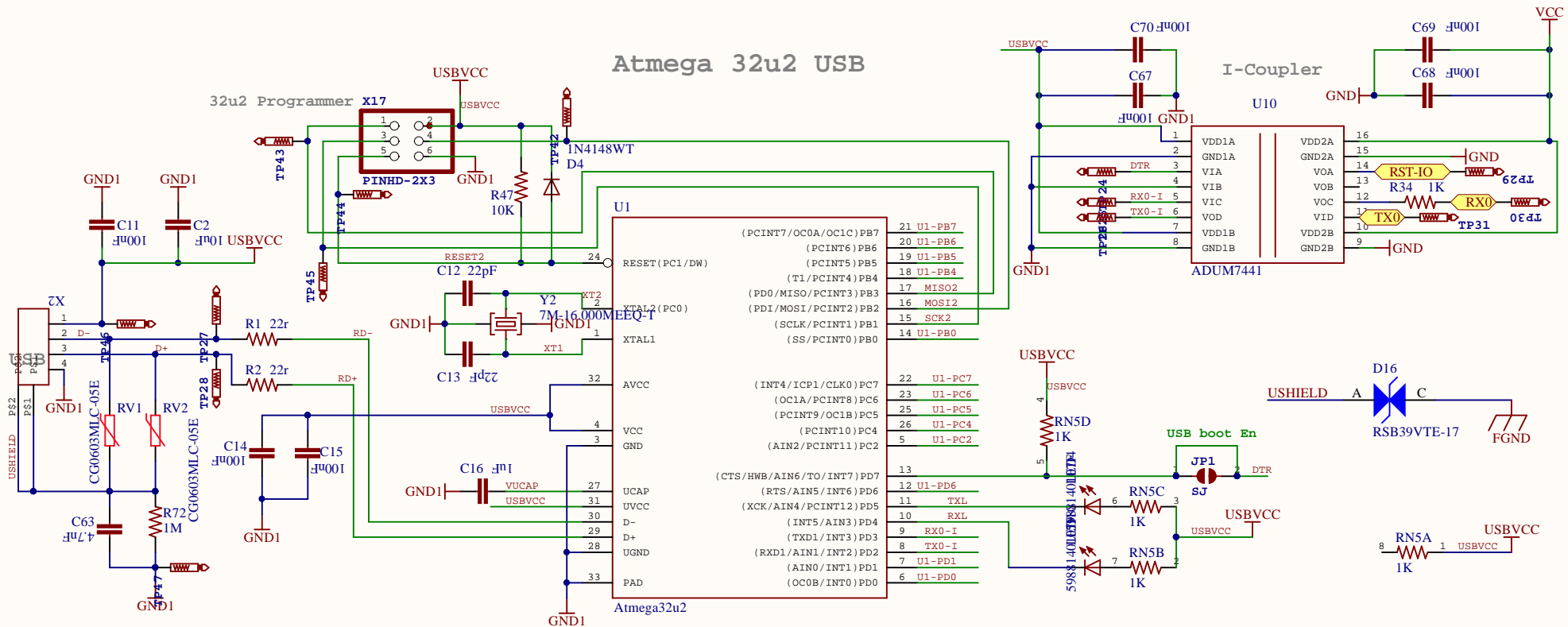


USB to Serial

Atmega 32u2 USB



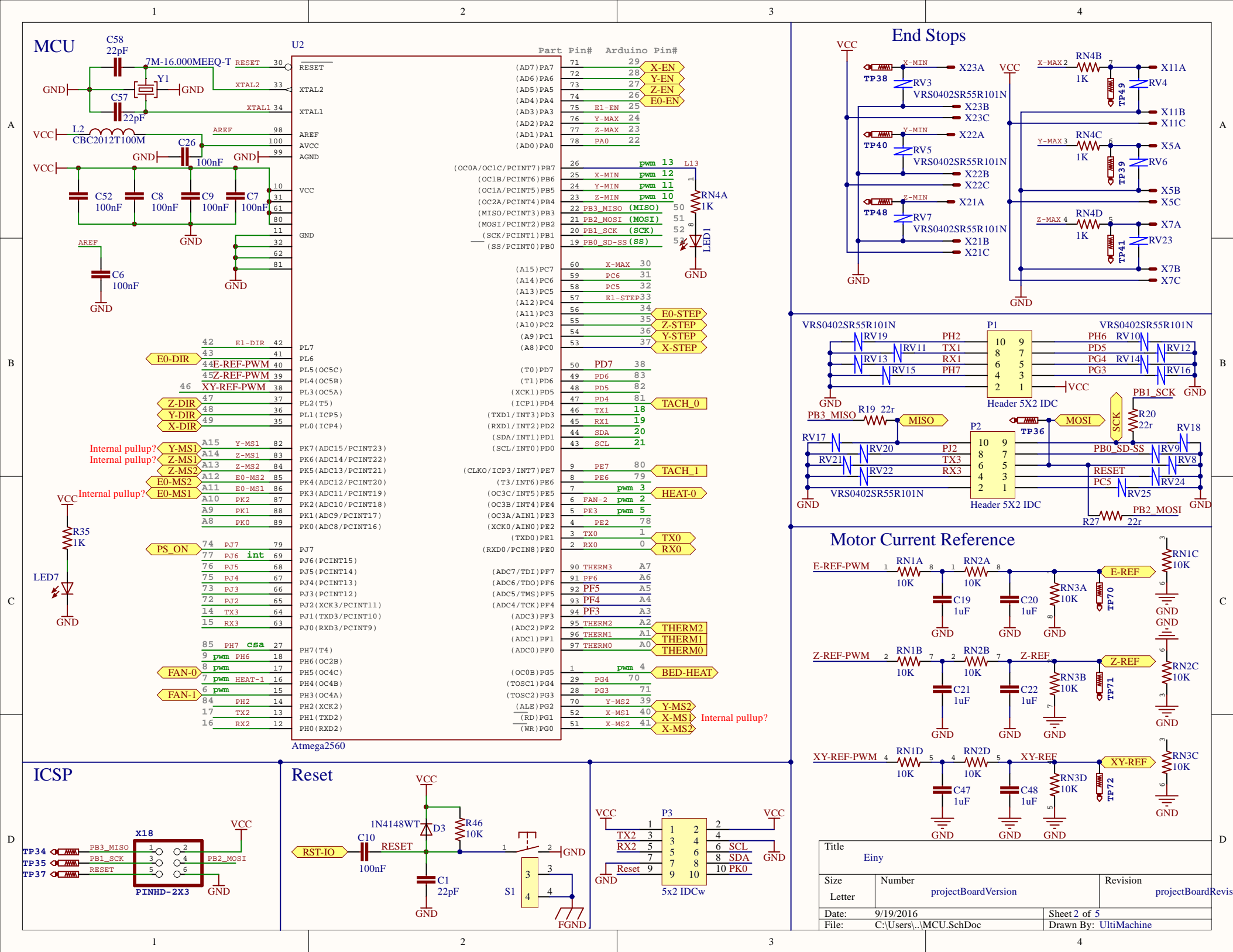
Reference Designs ARE PROVIDED "AS IS" AND "WITH ALL FAULTS". We DISCLAIM ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, REGARDING PRODUCTS, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

We may make changes to specifications and product descriptions at any time, without notice. The Customer must not rely on the absence or characteristics of any features or instructions marked "reserved" or "undefined." We reserve these for future definition and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to them. The product information on the Web Site or Materials is subject to change without notice. Do not finalize a design with this information.

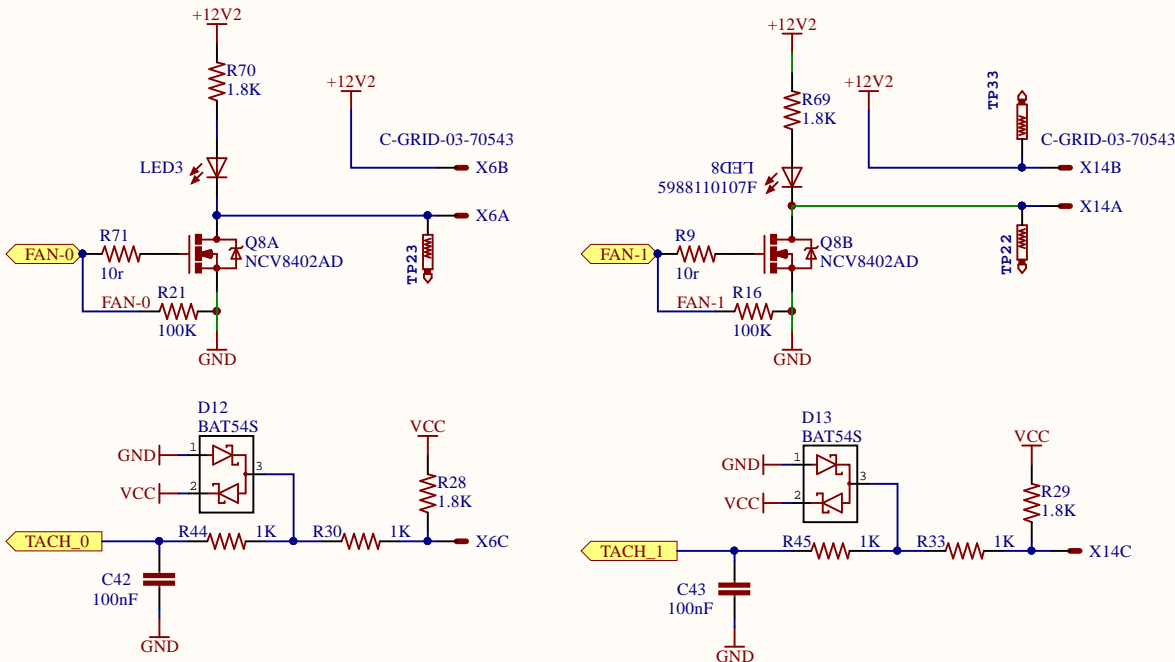
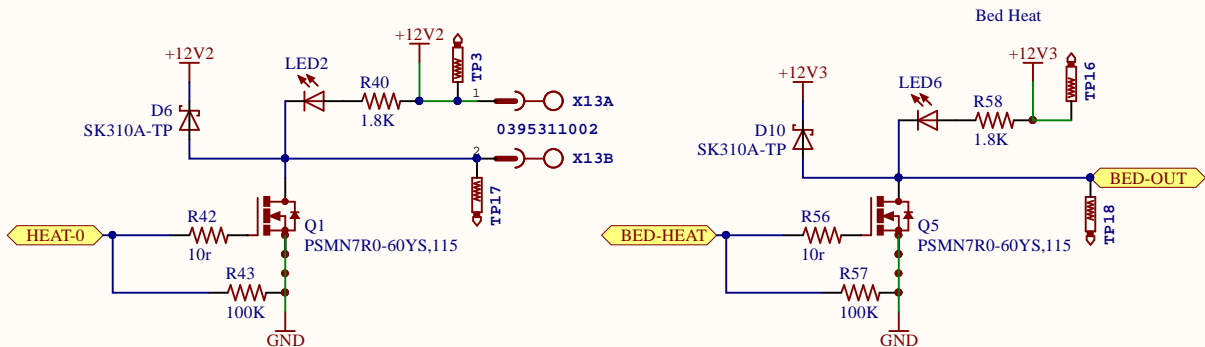
Open Source Hardware

Copyright 2014 - UltiMachine

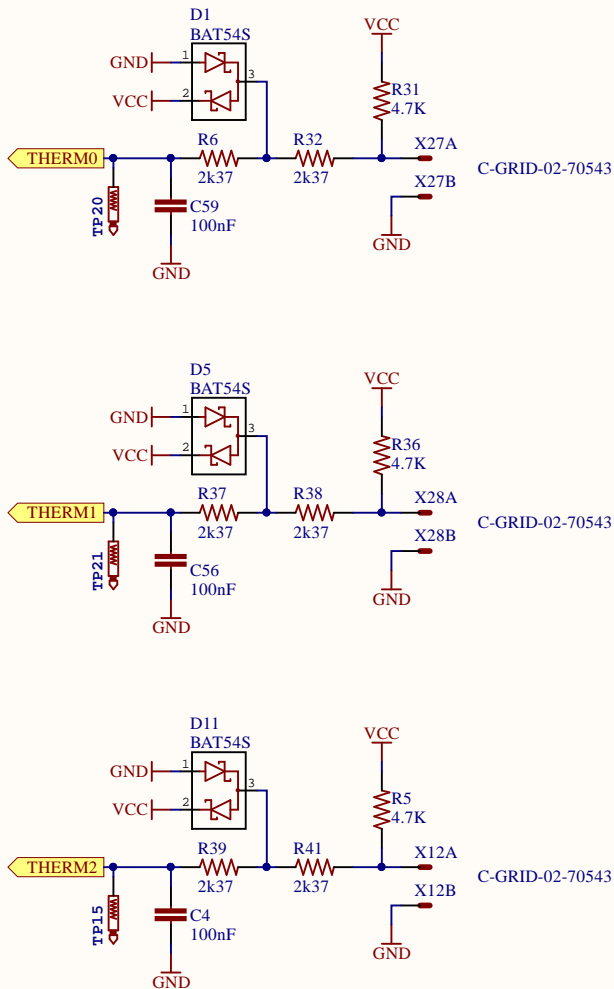
Title Einy		
Size Letter	Number projectBoardVersion	Revision projectBoardRevision
Date:	9/19/2016	Sheet 1 of 5
File:	C:\Users\...\USBSerialSchDoc	Drawn By: UltiMachine



Heater Outputs

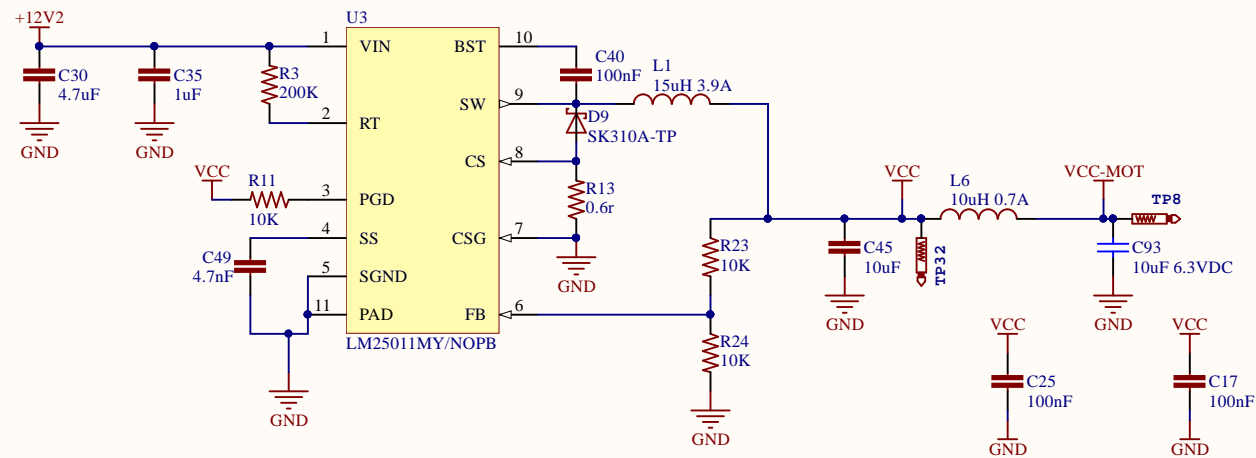


Thermistors

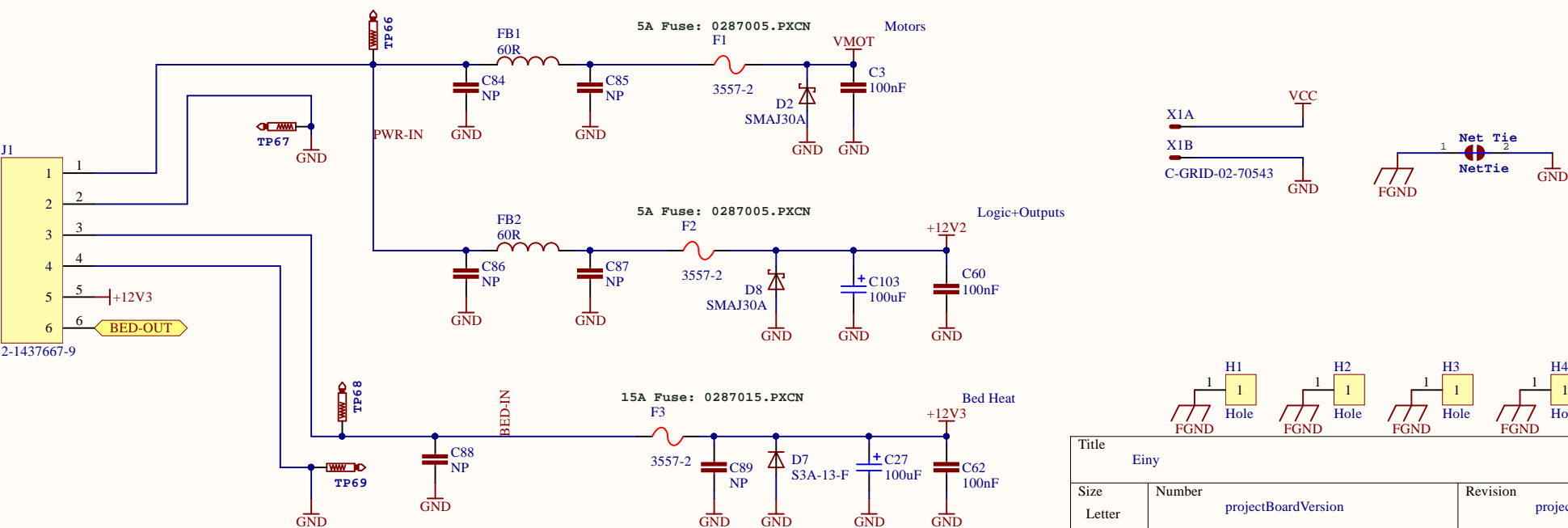


Title			Einy
Size	Number	Revision	
Letter	projectBoardVersion	projectBoardRevision	
Date:	9/19/2016	Sheet 4 of 5	
File:	C:\Users\...\Heaters.SchDoc	Drawn By: UltiMachine	

Voltage Regulator

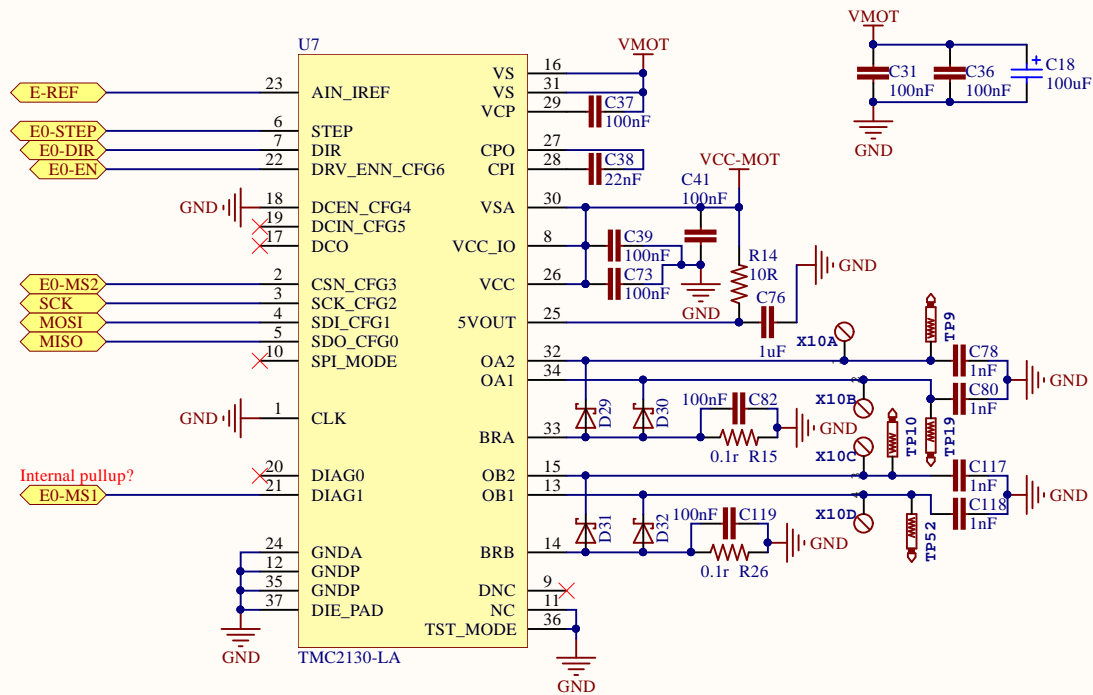


Power Input



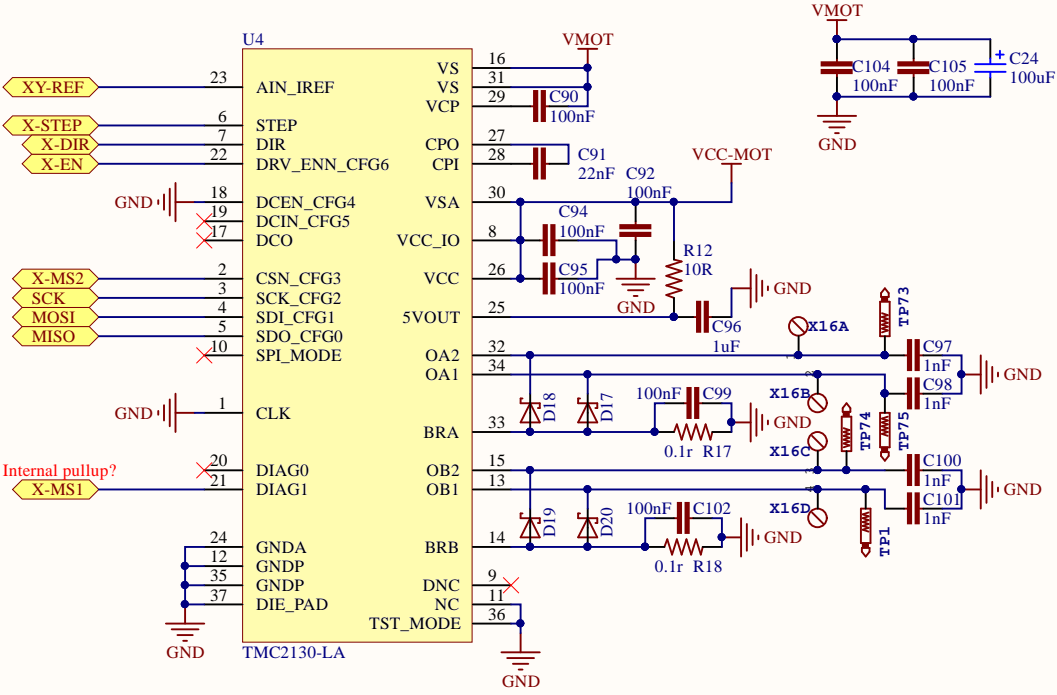
Title			Einy	
Size	Number	projectBoardVersion		Revision
Letter				projectBoardRevision
Date:	9/19/2016	Sheet 5 of 5		
File:	C:\Users\...\Power-SMPS.SchDoc	Drawn By: UltiMachine		

Motor E



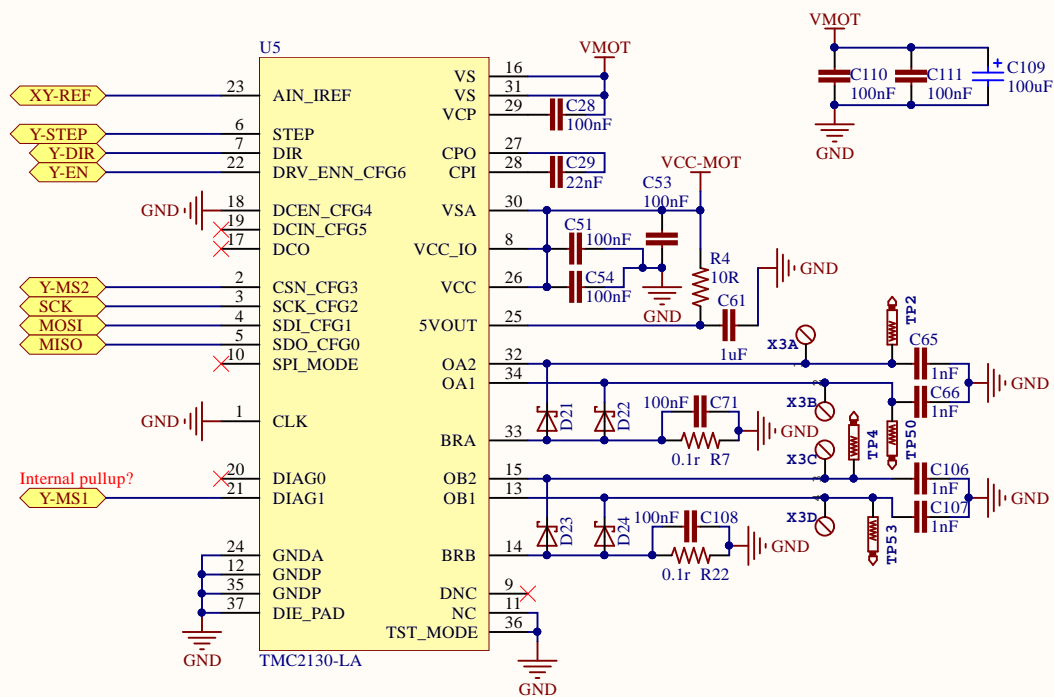
Title		
Einy 0.1a		
Size	Number	Revision
Letter	projectdocumentNumber	projectDocumentRevis
Date:	9/19/2016	Sheet * of *
File:	C:\Users\...\Motor-E.SchDoc	Drawn By: UltiMachine

Motor X



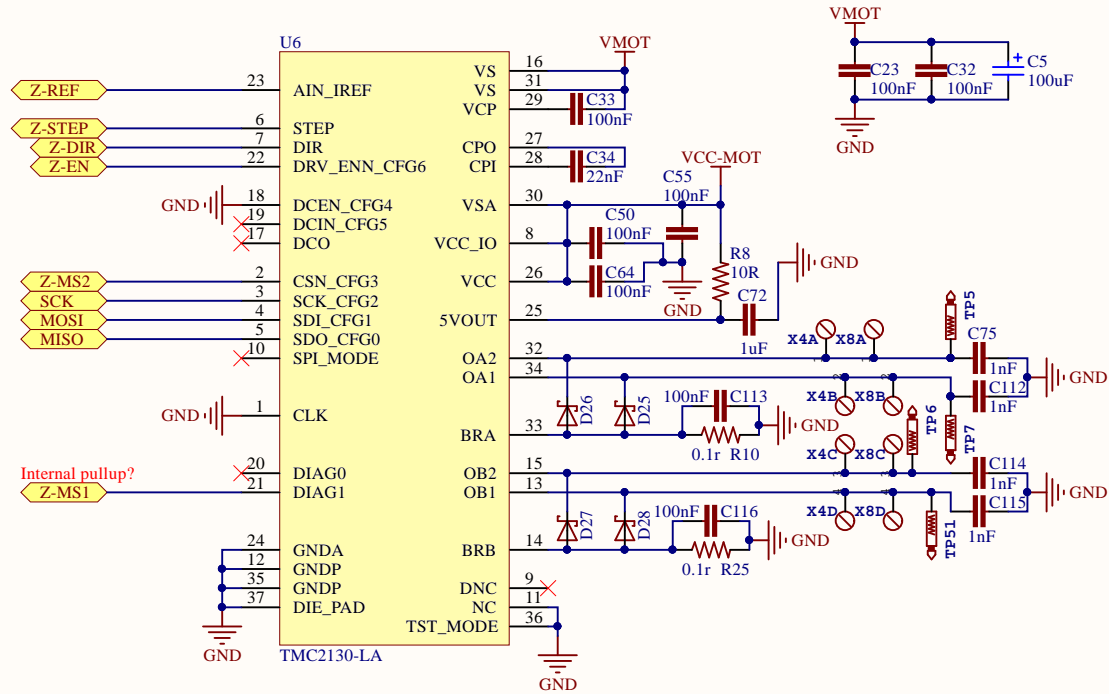
Title			
Einy 0.1a *			
Size	Number	Revision	
Letter	projectdocumentNumber	projectDocumentRevis	
Date:	9/19/2016	Sheet * of *	
File:	C:\Users\...\Motor-X.SchDoc	Drawn By: UltiMachine	

Motor Y



Title Einy 0.1a *		Revision projectDocumentNumber	
Size Letter	Number projectdocumentNumber		Revision projectDocumentRevision
Date:	9/19/2016	Sheet * of *	
File:	C:\Users\...\Motor-Y.SchDoc	Drawn By:	UltiMachine

Motor Z



Title		
Einy 0.1a		
Size	Number	Revision
Letter	projectdocumentNumber	projectDocumentRevis
Date:	9/19/2016	Sheet * of *
File:	C:\Users\...\Motor-Z.SchDoc	Drawn By: UltiMachine