

ALPHA RELEASE
6-AXIS CONTROLER

BLOCK DIAGRAM



SCHEMATIC2

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RELEASED

REVISIONS						
ECN	REV	DESCRIPTION	DWN	CHK	ENG	DATE
	None	Prototype Capture	GK	KG	KG	01/15/2015
		The main connectors were backwards.	GK	KG	KG	05/15/2015
		Changed power up cicuit to JX1 & JX2 Pin 11 JX2 needed to be part of the power up chain. Split out the motor grounds from main ground path. Changed L1 & L2 in the power supply, Changed the cap from a T-492 to X7R. Reworked the power topology. Added a 35v motor supply lowered the input rail to accomodate a battery system. Individually fused each motor channel JX2 Sensor inputs AD nomenclature different then LVDS for signals that route to the FPGA. Promoted from 09011-00121-B added 6th Motor control and sensor"	GK	KG	KG	06/20/2015
	A	Cathode D3&D4 moved from U1&U2 pin6 to U1&U2 pin9.	GK	GK	GK	10/18/2015

Master
Mark-ups _____ Date: _____

- ARY:09070-00135-A
ASY:09061-00135-A
PCB:09051-00135-A
PDF:09041-00135-A
GRB:09031-00135-A
BOM:09021-00135-A
SCH:09011-00135-A

DRAWN BY: G. Kochis	Date: 08/05/2015	HADDINGTON DYNAMICS, LLC 7705 COMMERCIAL WAY STE 125 HENDERSON, NV. 89011-6608 (973)818-8818 CAGE Code: N/A	
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APPROVED BY: K. Gilson	Date: 08/05/2015		
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						REVISIONS								
				ECN	REV	DESCRIPTION		DWN	CHK	ENG		DATE		
					A	Cathode D3&D4 moved from U1&U2 pin6 to U1&U2 pin9.		GK	GK	GK		10/18/2015		
3												3		
2												2		
1												1		
A			B			C			D			E		

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(973)818-8818

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Title

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SCH:09011-00135-A

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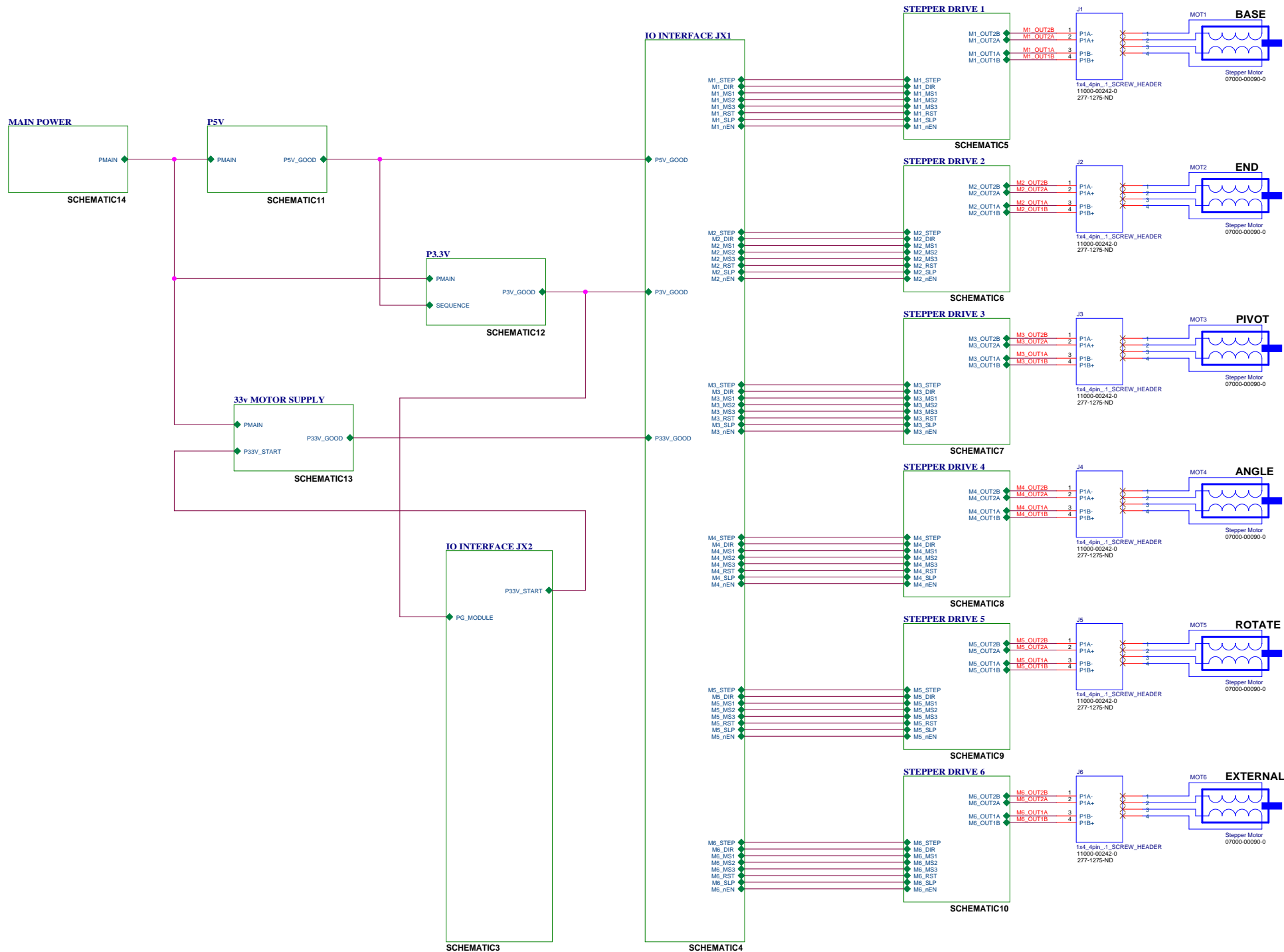
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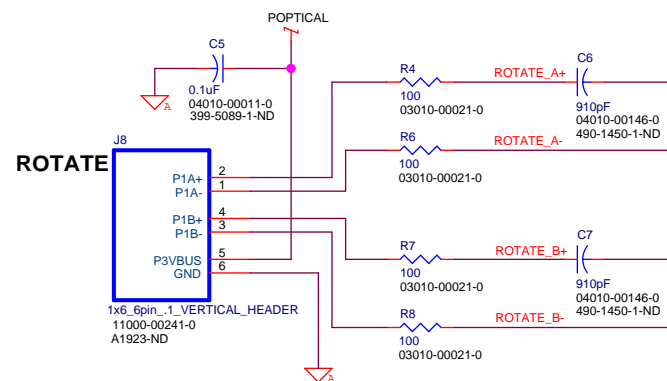
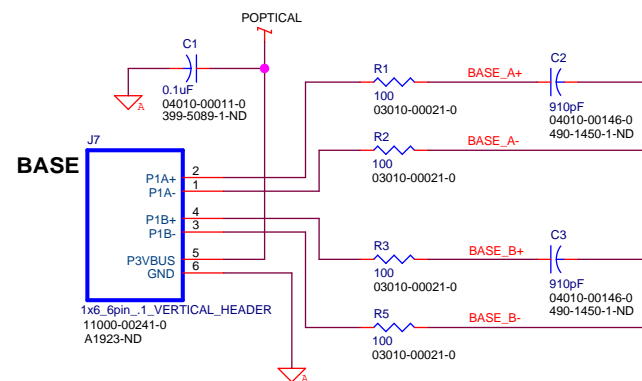
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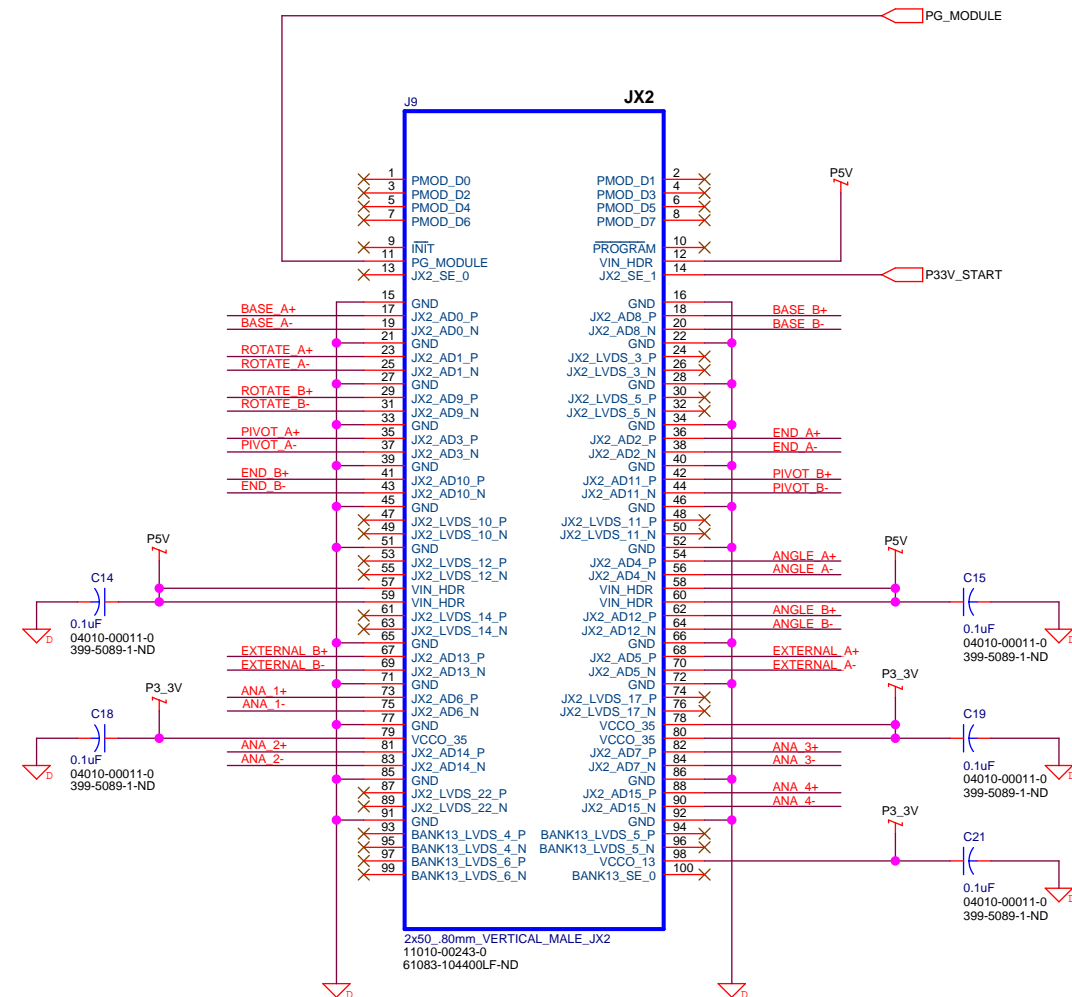
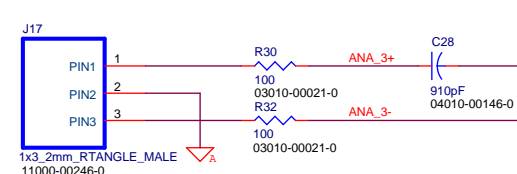
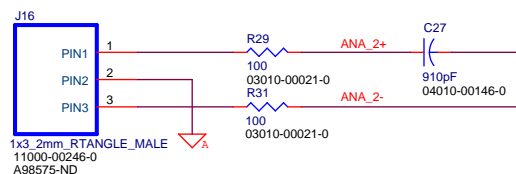
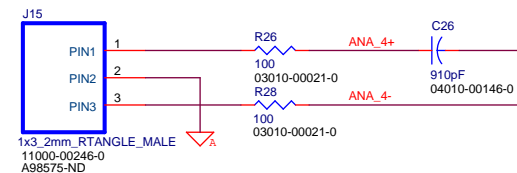
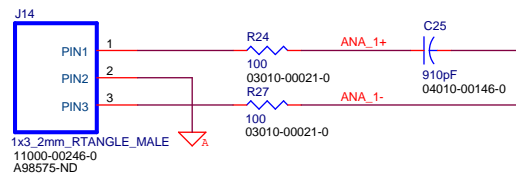
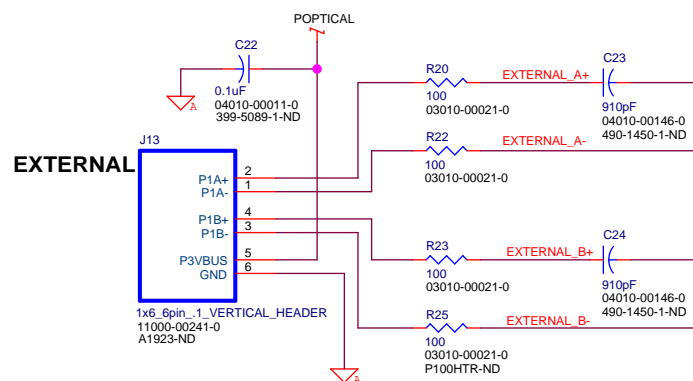
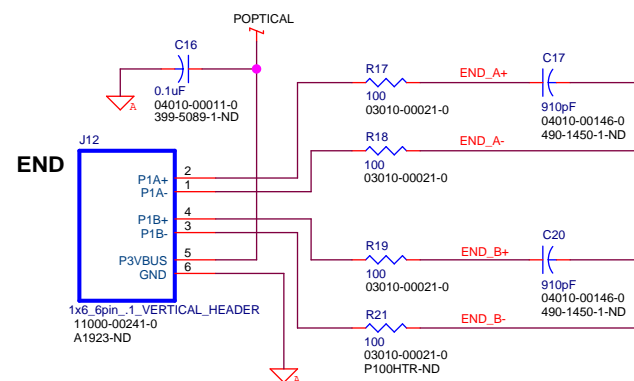
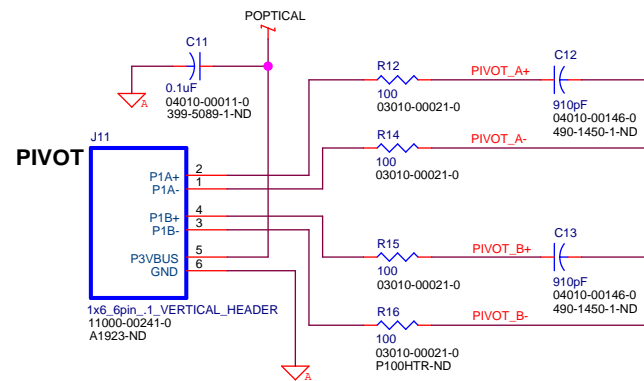
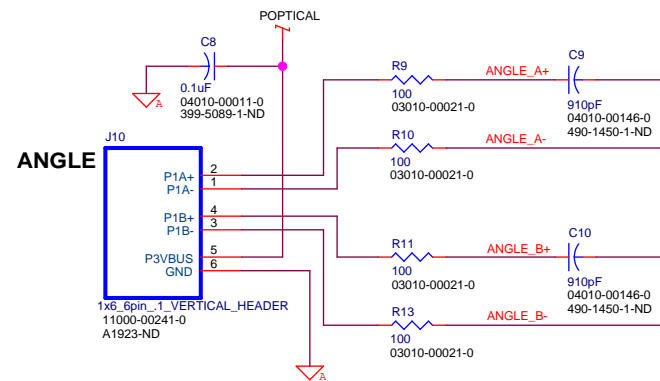
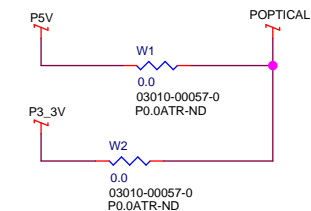
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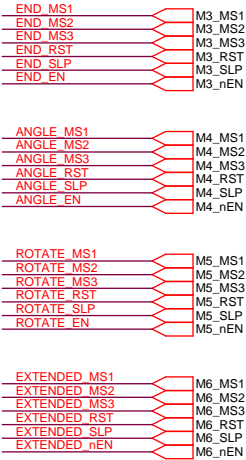
NOTES :

(1) Install only one jumper to select desired optical interface voltage.

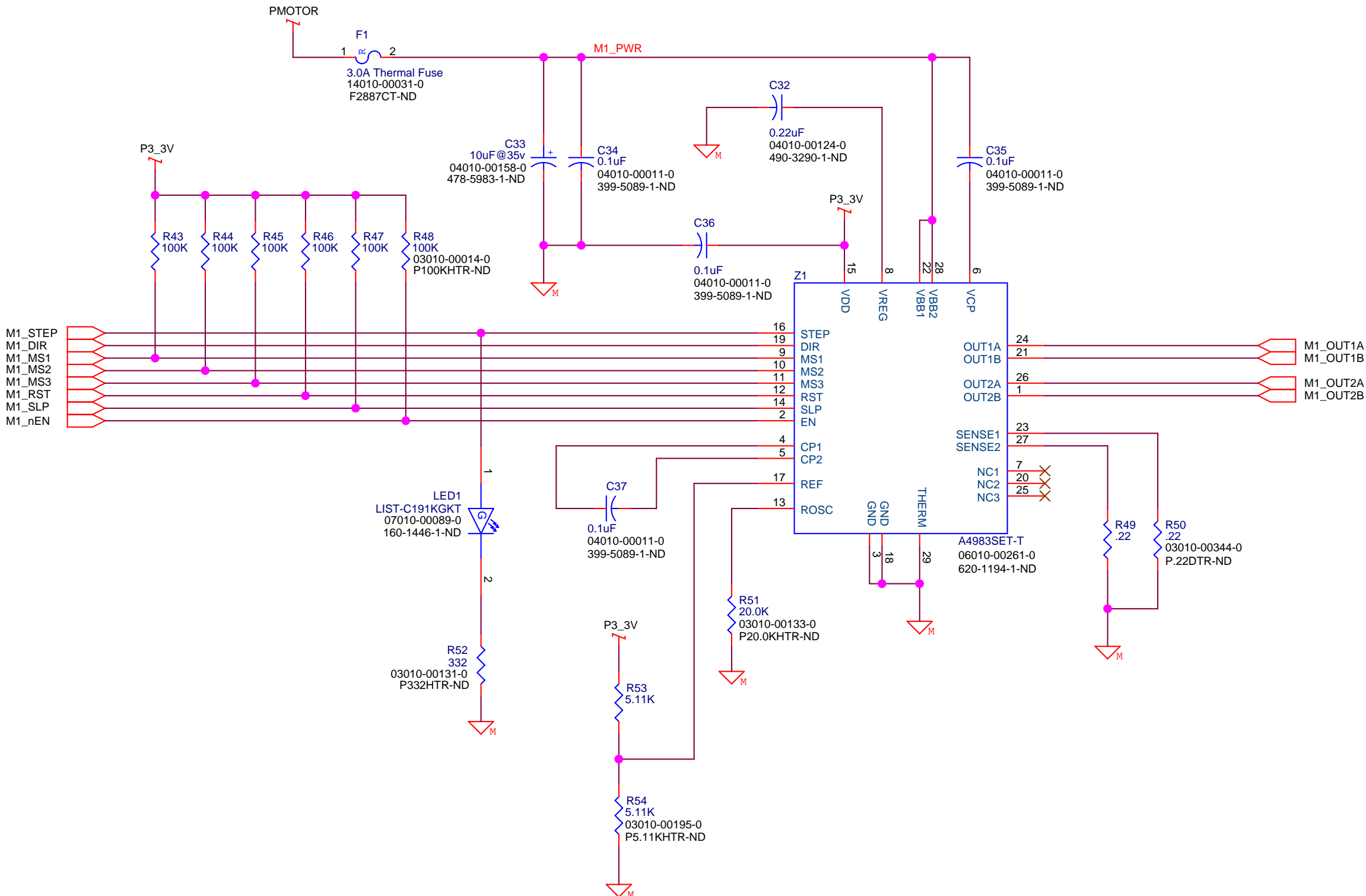
(2) Power staging is set by using the soft start feature of the 3.3 volt supply.



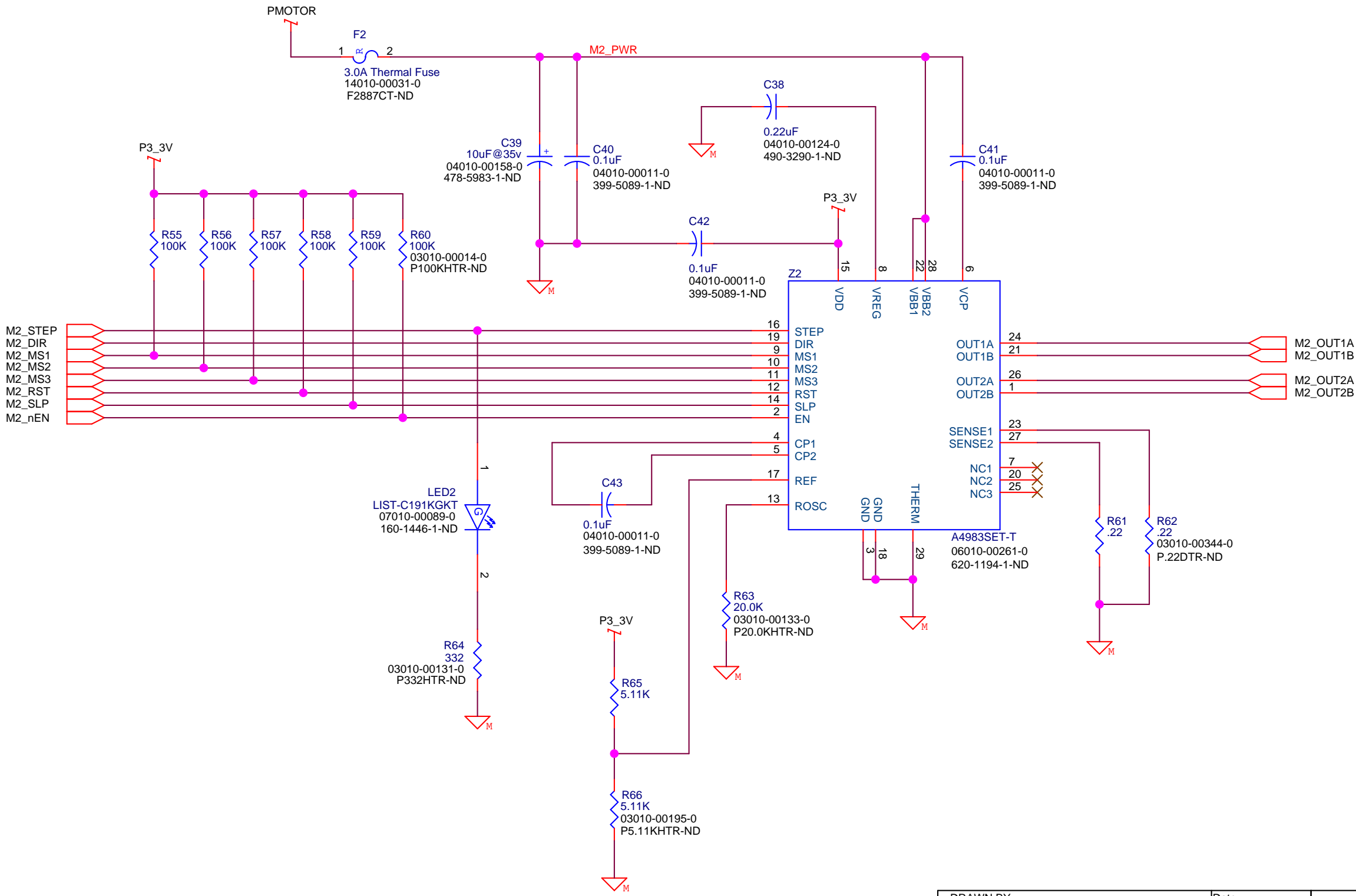
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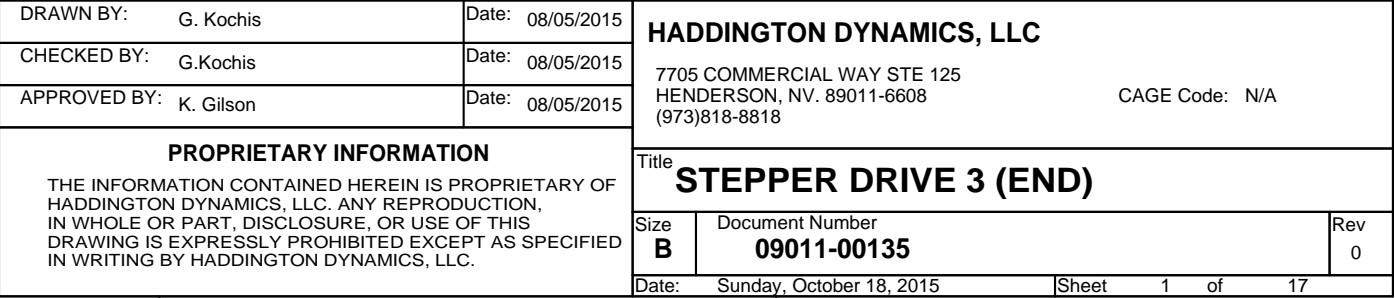
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			Title IO INTERFACE JX1 (DIGITAL)		
			Size C	Document Number 09011-00135	Rev 0
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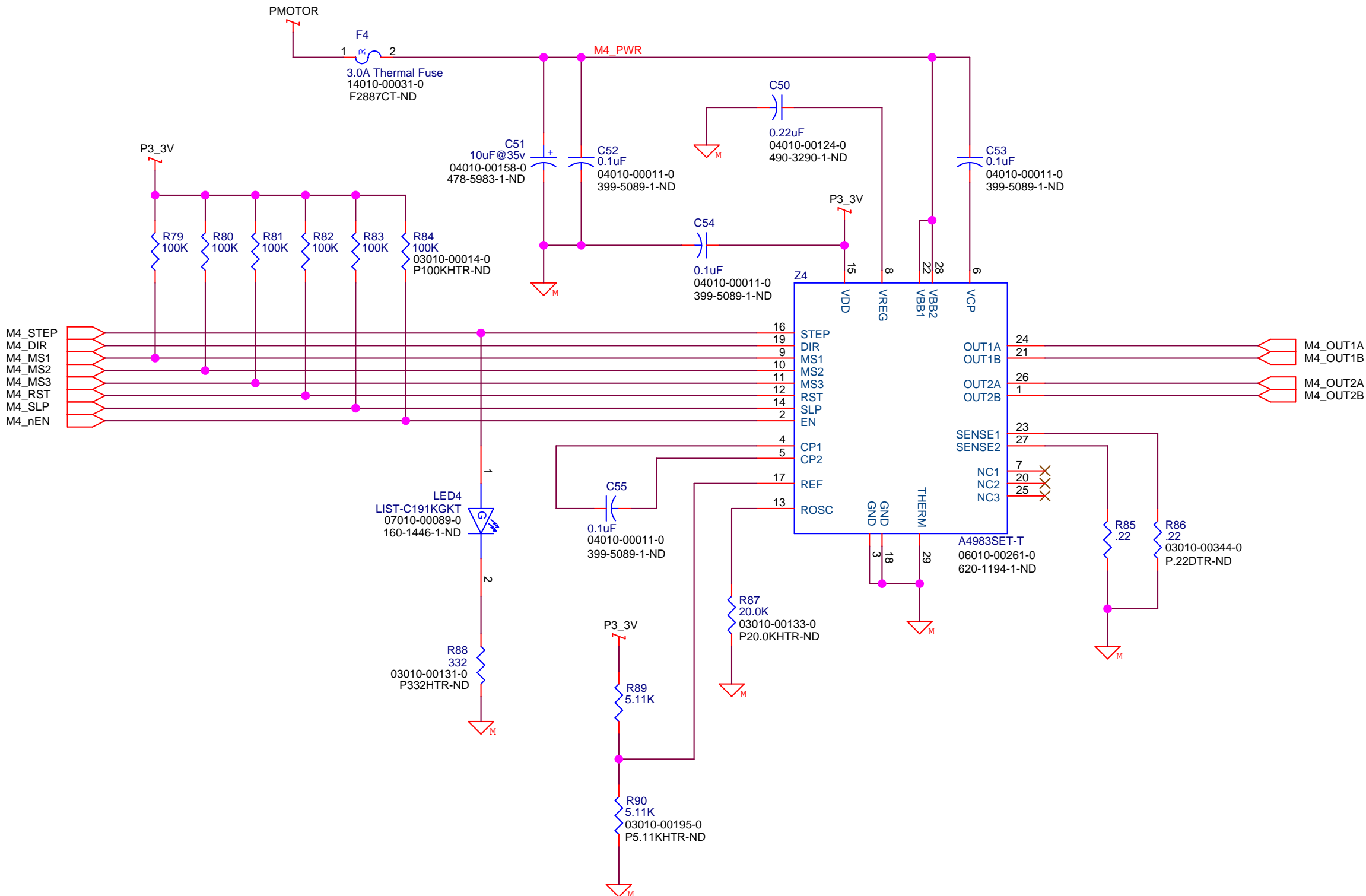


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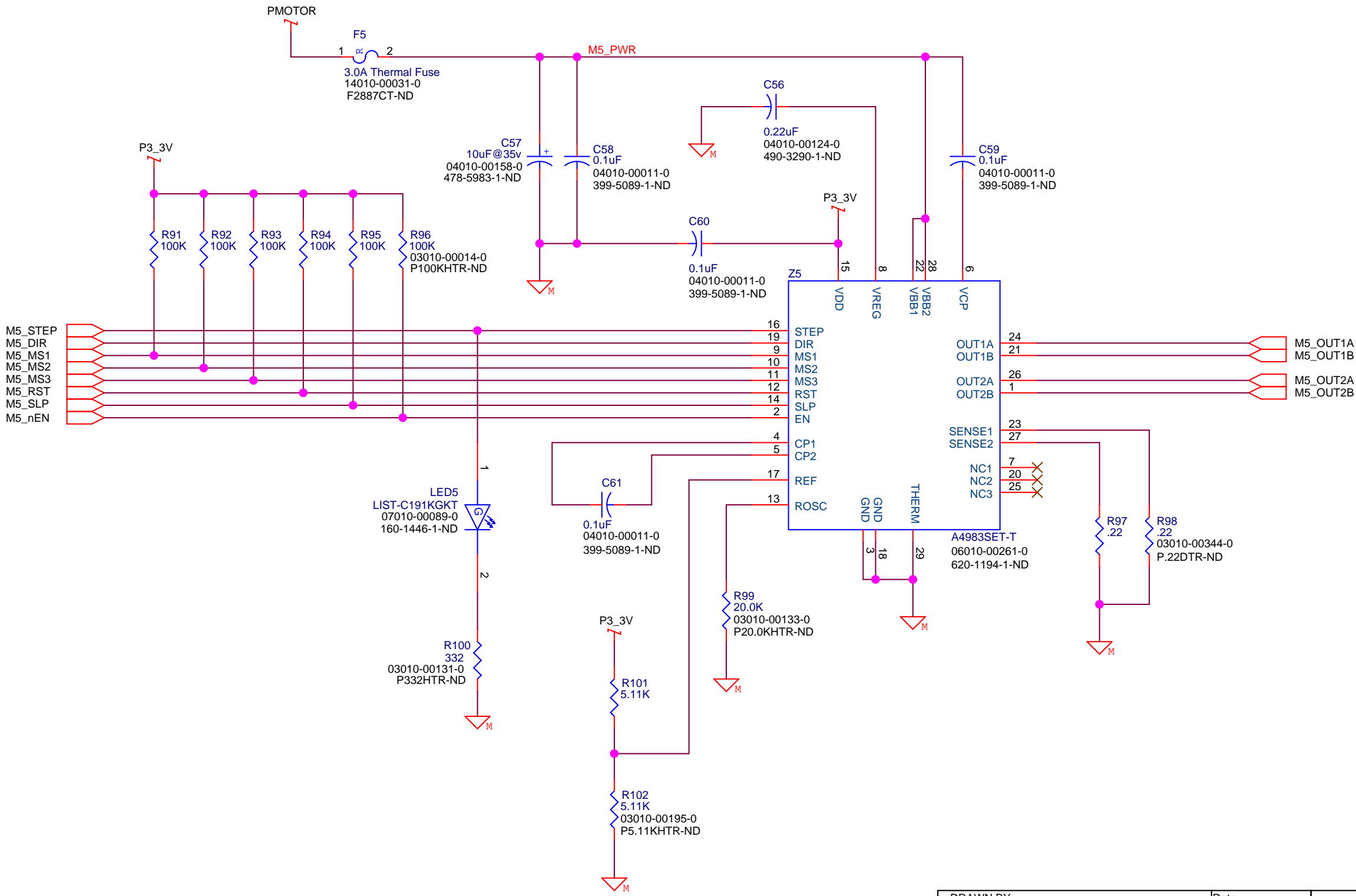


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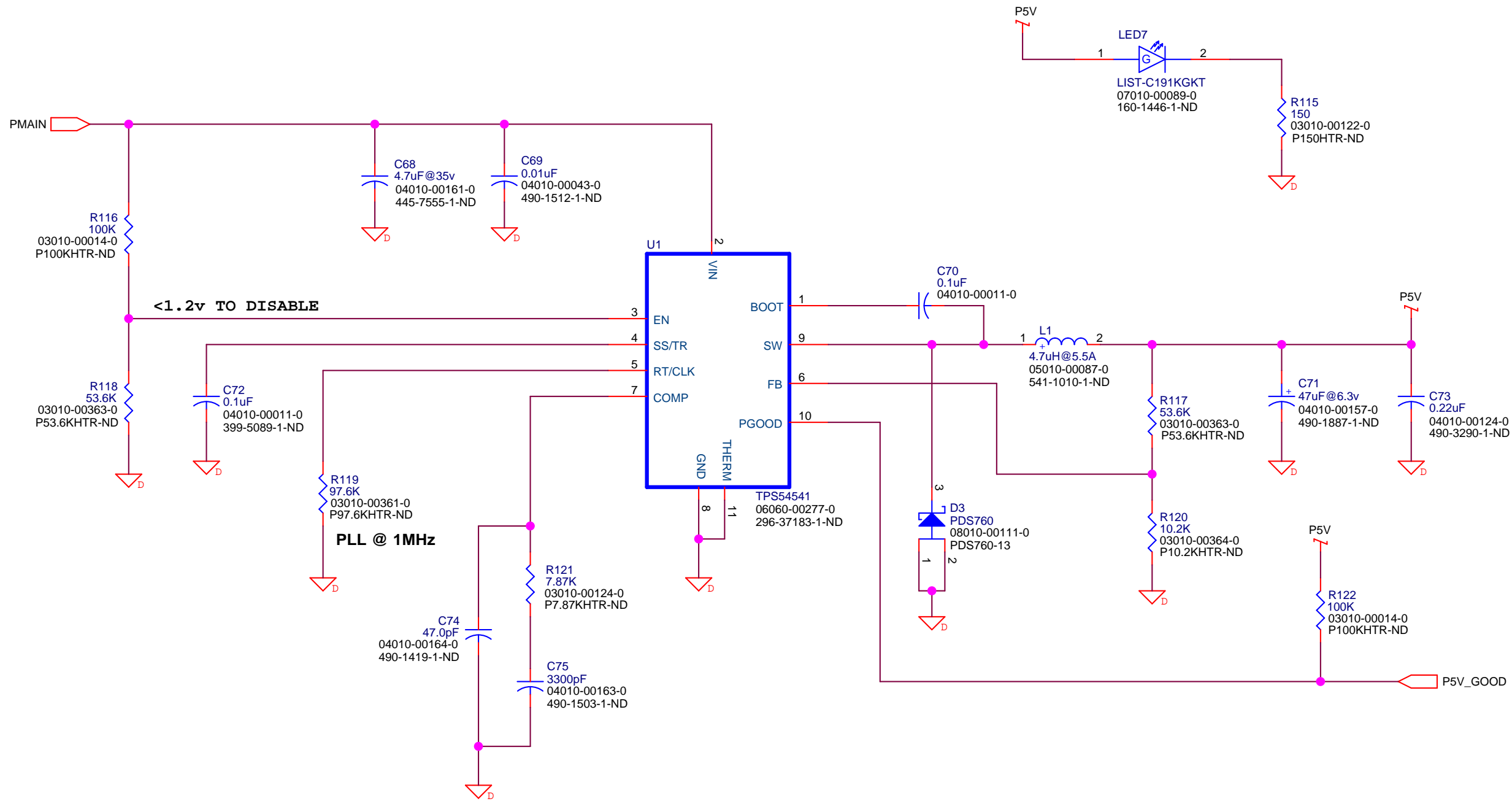
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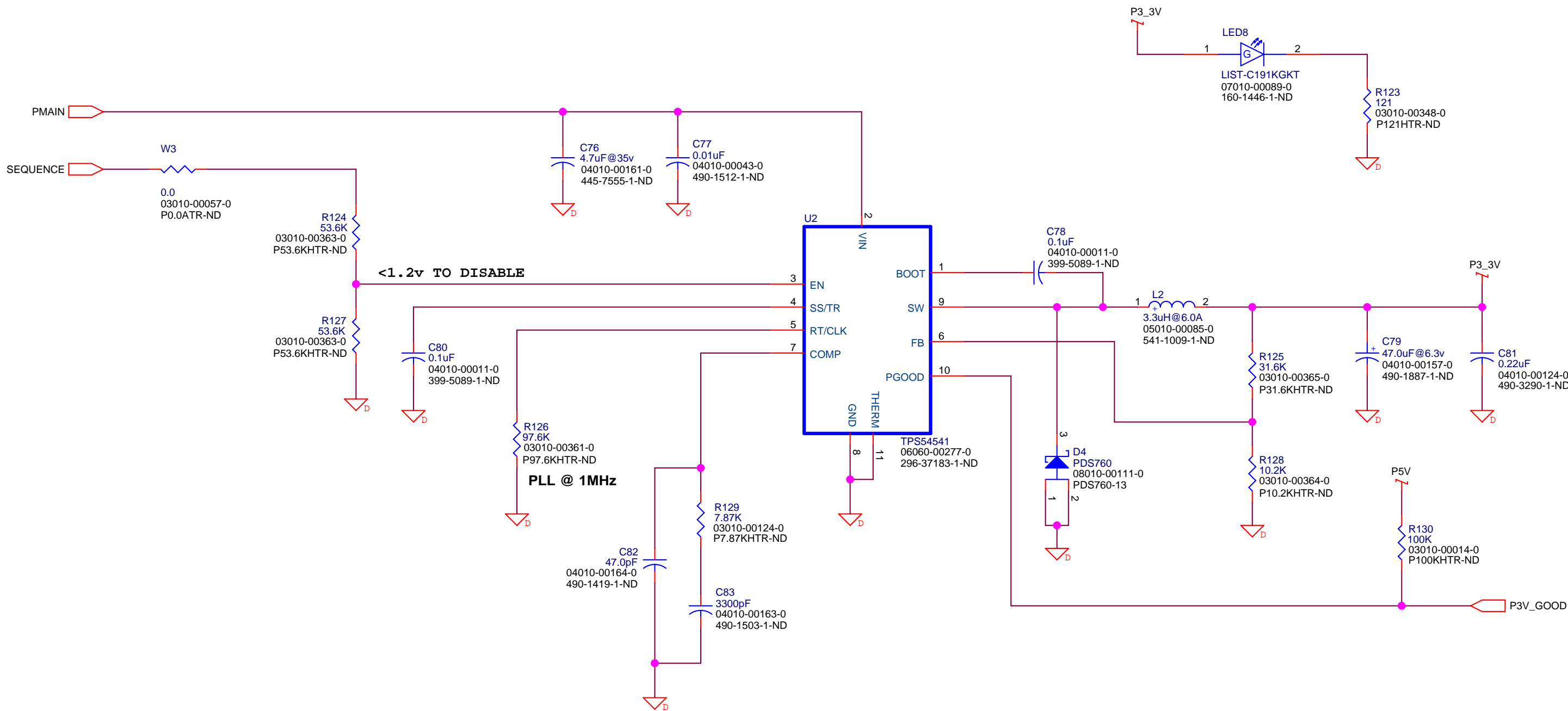
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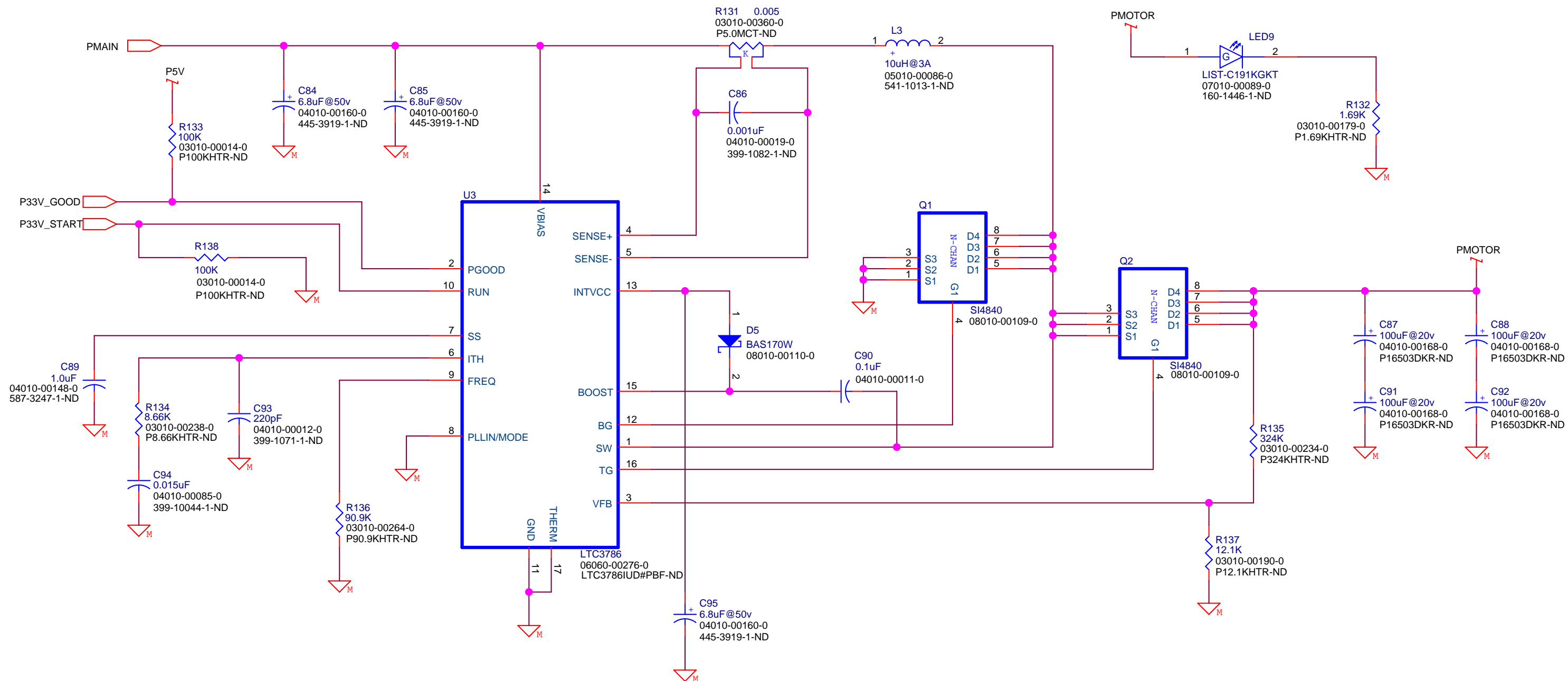
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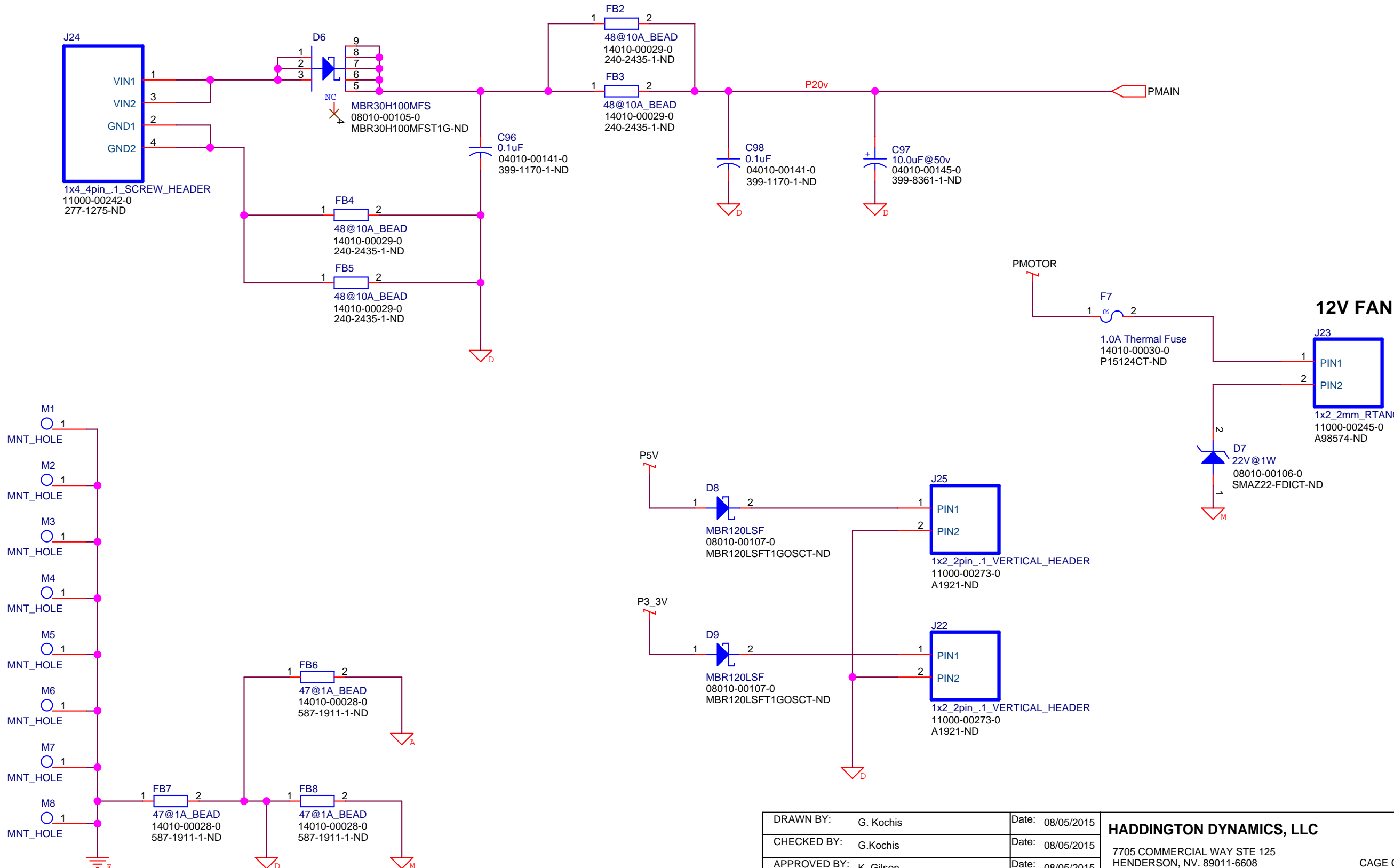
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