

MOXLIE PDB

DATE:3/8/2019

STAGE:PVT2

VERSION:4.95

PCB PN:PCB-PDBMOXL6-P1

PCBA PN:PB-00092-005

COVER PAGE



DEPARTMENT

DESIGNER

NAME

REVIEWER

NAME

PROJCT

MOXLIE PDB

DOCUMENT NUMBER

<ZT_NUMBER>

REV

01

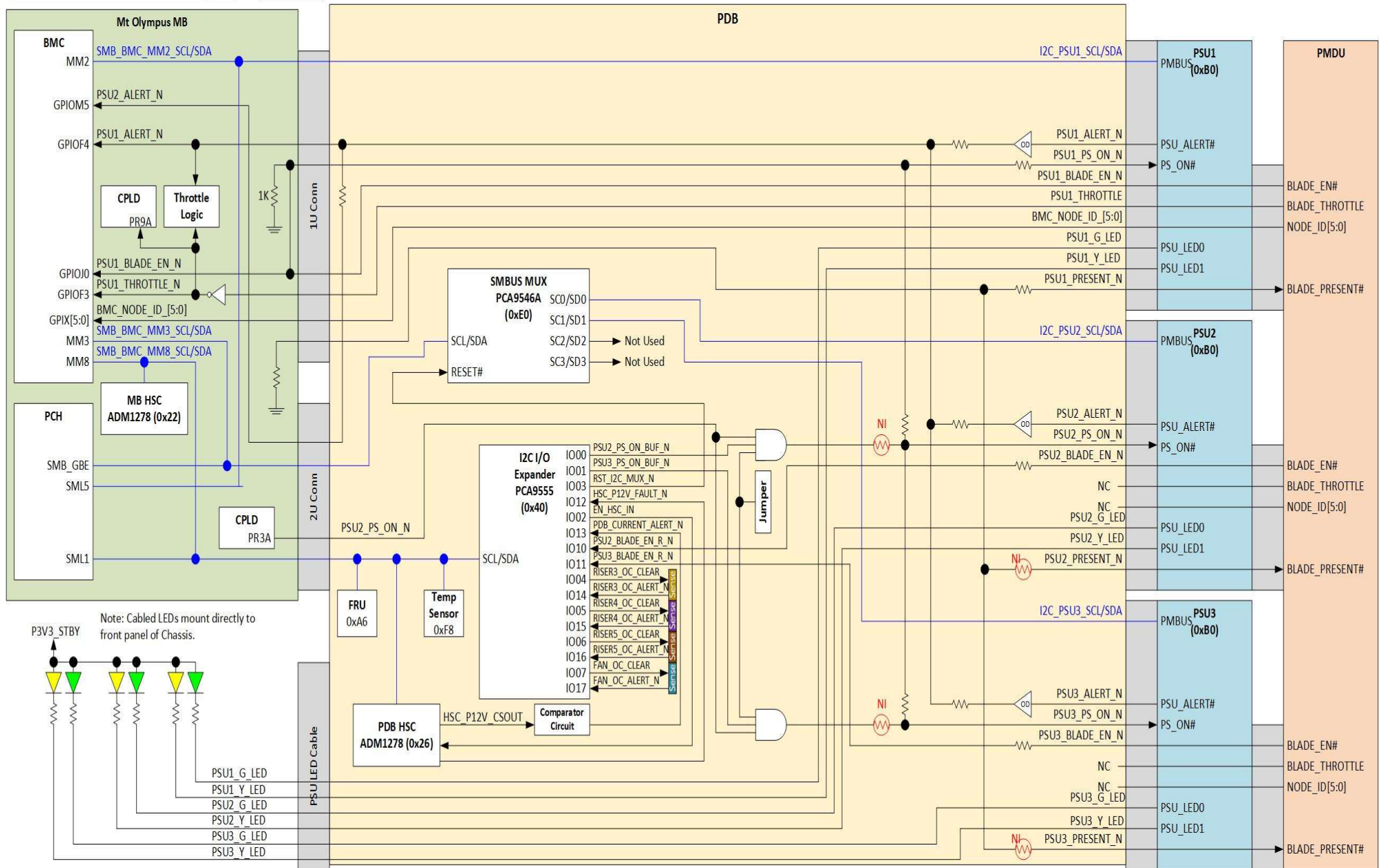
SIZE C DATE Fri Mar 08 10:00:56 2019 SHEET 1 OF 24

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BLOCK DIAGRAM

Moxlie PDB Misc IO Block Diagram

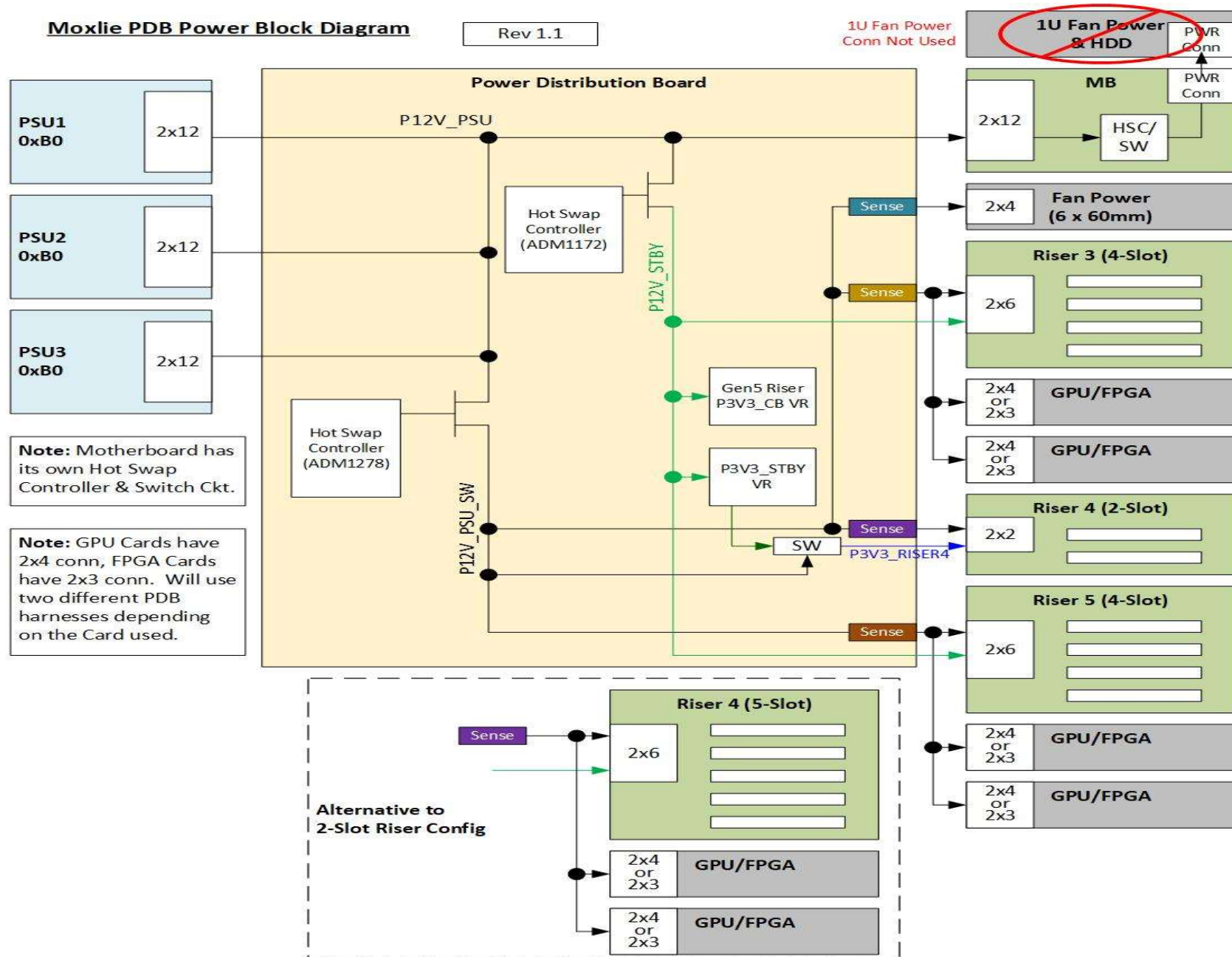
Rev 1.4



POWER FLOW CHART

Moxlie PDB Power Block Diagram

Rev 1.1



POWER FLOW CHART

zt Systems	DEPARTMENT	DESIGNER	NAME	PROJECT	DOCUMENT NUMBER	REV
	REVIEWER	NAME	NAME	MOXLIE PDB	<ZT_NUMBER>	01
				SIZE C DATE Wed May 30 15:53:25 2018	SHEET 4 OF 24	

PCB STACKUP

Design:	design name	Units: mil
Vendor:	XX	Design 1.0 oz. thickness: 1.3
Date:	12/20/2017	Actual 1.0 oz. thickness: 1.3
Normal FR4		

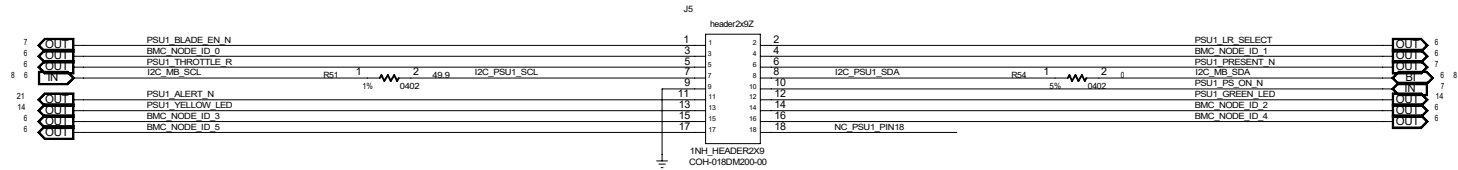
Layer			Dielectric and Copper Properties								Layer	
			Copper	Dielectric Material						Design	Actual	
Name	Description	Type	Weight	Type	Type	Er	Df	Actual Er	Actual Df	Thickness (mil)	Thickness (mil)	
Top_SM	Top Soldermask	Soldermask			Soldermask	3.70	0.030	3.7		0.5	0.5	
L1top	Signal_L1top	Signal	0.5 oz. plated	STD						2.0	2.1	
PP_L1top_L2	Prepreg	PP			1080*1	3.80	0.022	3.7	0.010	2.7	2.8	
L2	GND_L2	GND	2.0 oz.	STD						2.6	2.6	
Core_L2_L3	Core	Core		7628X2+2116X1	3.90	0.024		3.9	0.010	19.7	20.0	
L3	PWR_L3	PWR	2.0 oz.	STD						2.6	2.6	
PP_L3_L4	Prepreg	PP			7628*4	4.20	0.022	4.1	0.010	34.2	32.6	
L4	PWR_L4	PWR	2.0 oz.	STD						2.6	2.6	
Core_L4_L5	Core	Core		7628X2+2116X1	3.90	0.024		3.9	0.010	19.7	20.0	
L5	GND_L5	GND	2.0 oz.	STD						2.6	2.6	
PP_L5_L6bot	Prepreg	PP			1080*1	3.80	0.022	3.7	0.010	2.7	2.8	
L6bot	Signal_L6bot	Signal	0.5 oz. plated	STD						2.0	2.1	
Bot_SM	Bot Soldermask	Soldermask			Soldermask	3.7	0.030	3.7		0.5	0.5	

with soldermask, total thickness: 94.4 93.8
without soldermask, total thickness: 93.4 92.8

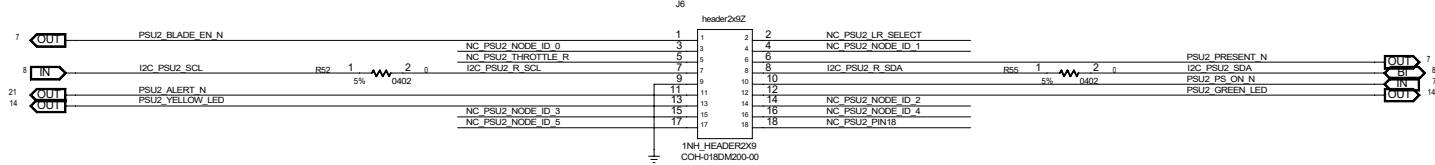
C/L →

IO CONNECTOR

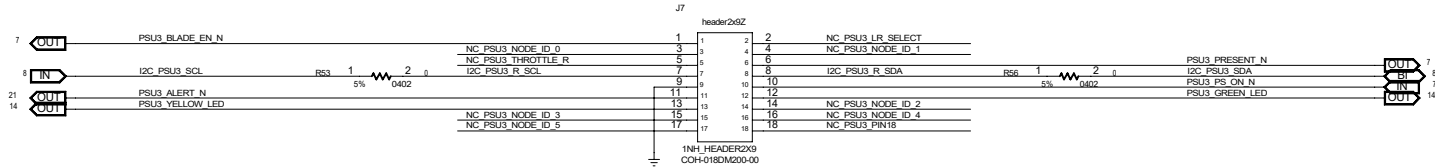
PSU1



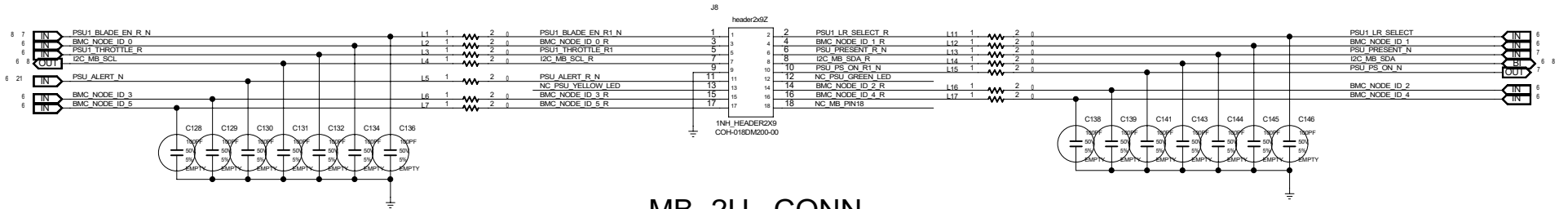
PSU2



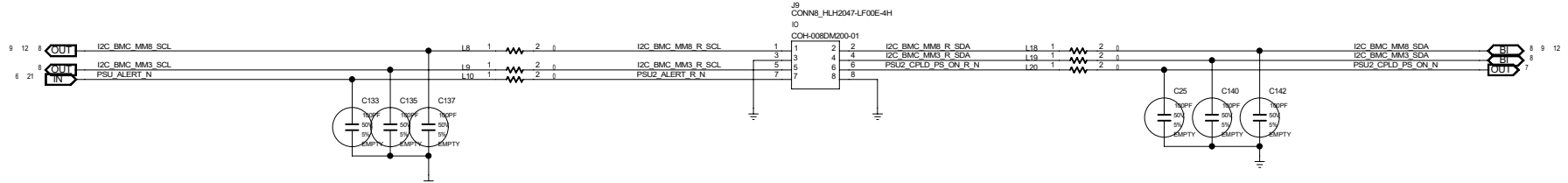
PSU3



MB 1U CONN



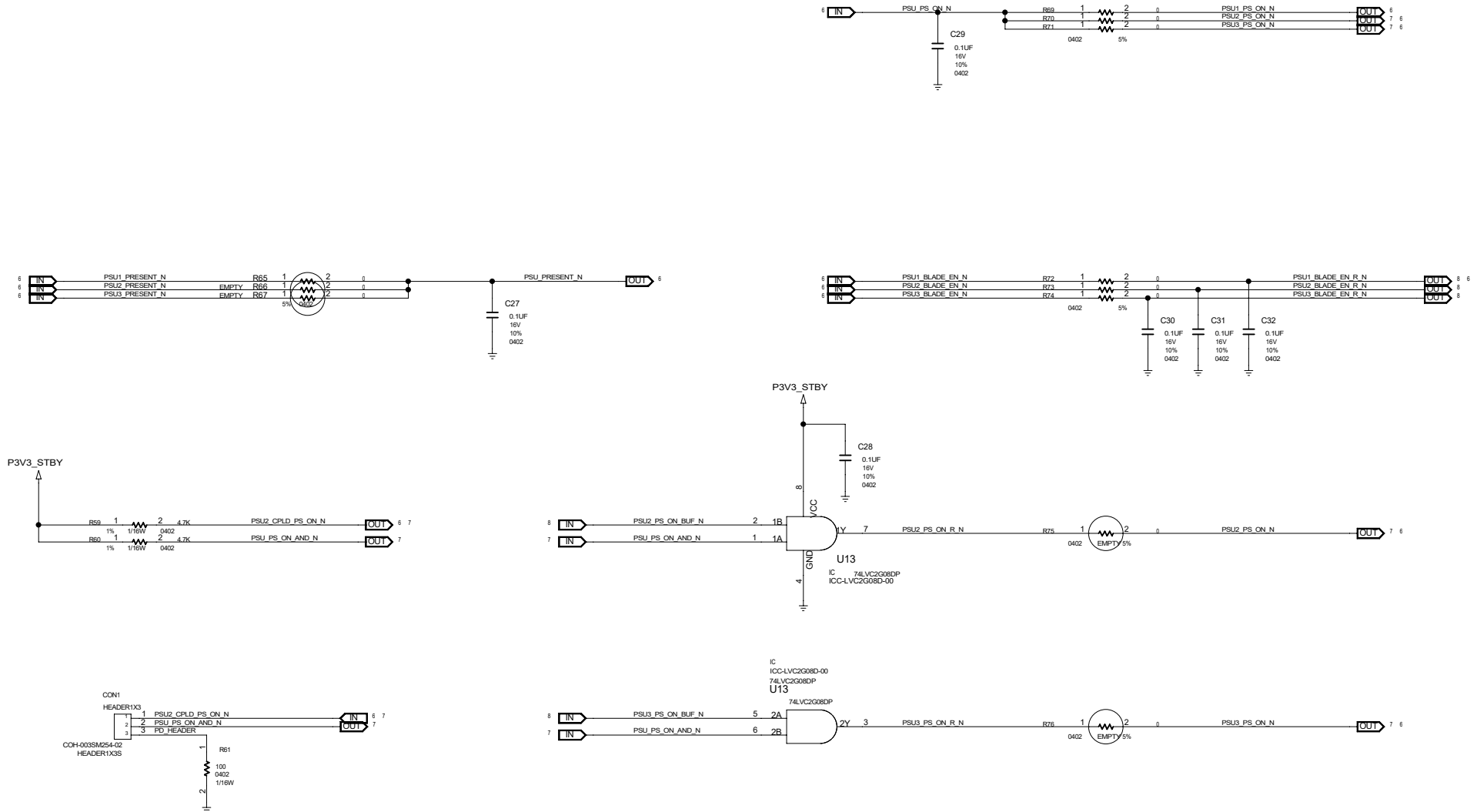
MB 2U CONN



IO CONNECTOR

	DEPARTMENT	DESIGNER	NAME	PROJECT	DOCUMENT NUMBER	REV
		REVIEWER	NAME	MOXLIE PDB	<ZT_NUMBER>	01
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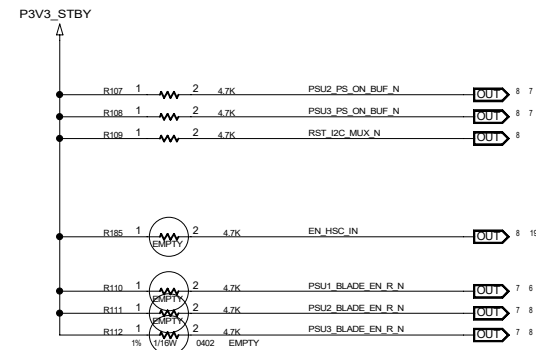
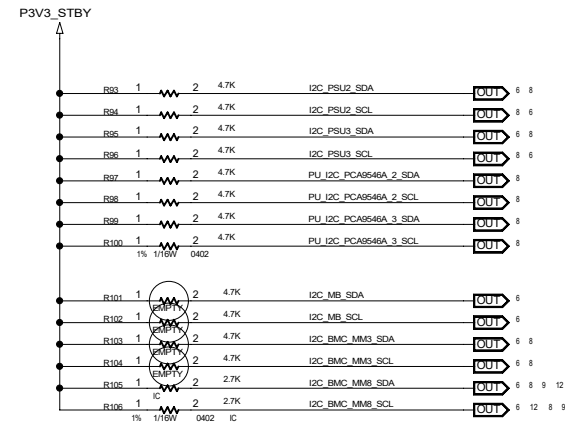
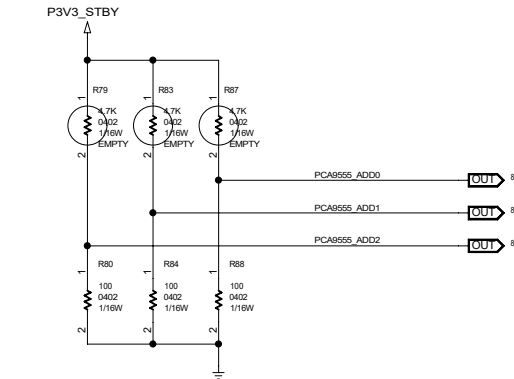
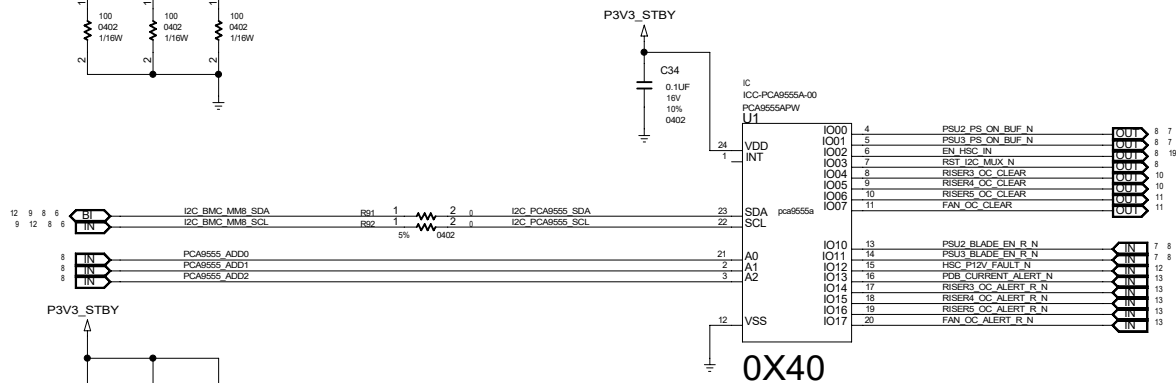
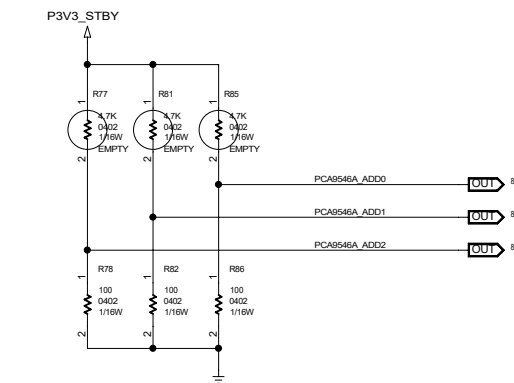
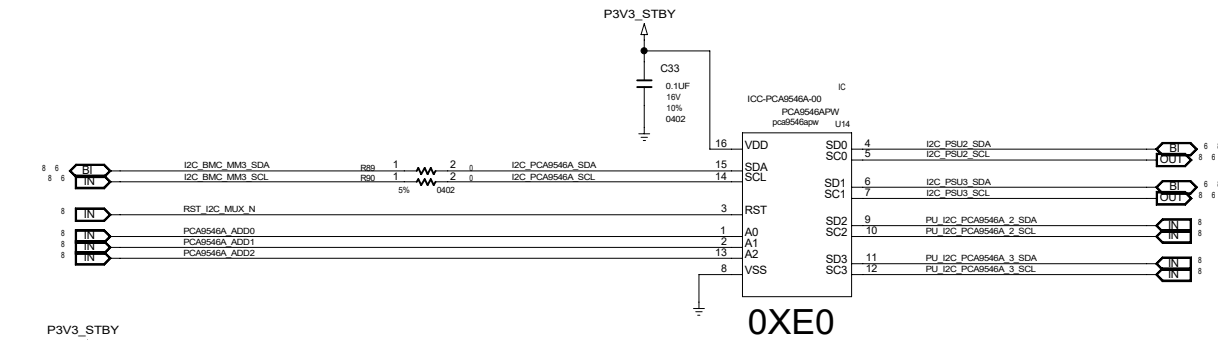
CONTROL SIGNALS



CONTROL SIGNALS

	DEPARTMENT	DESIGNER	NAME	PROJECT	DOCUMENT NUMBER	REV
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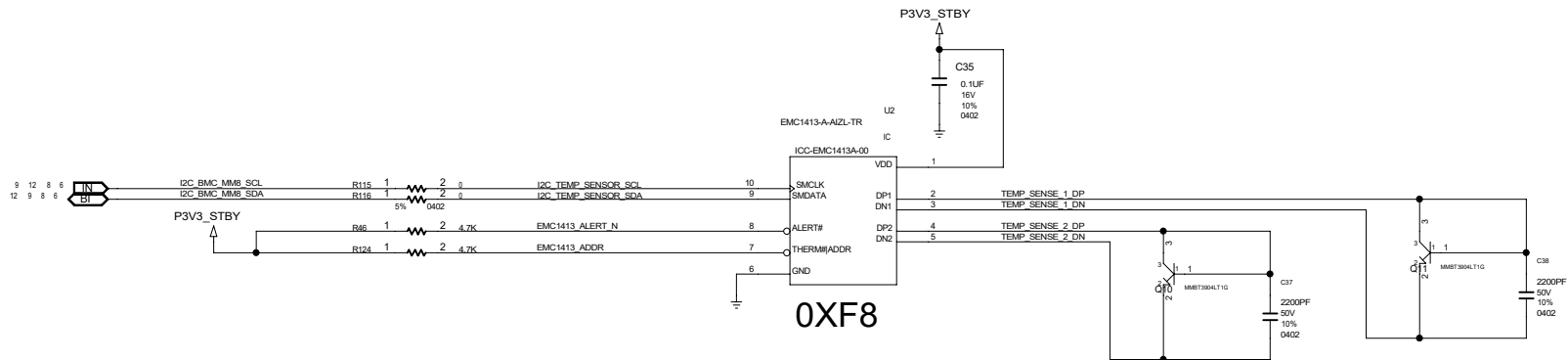
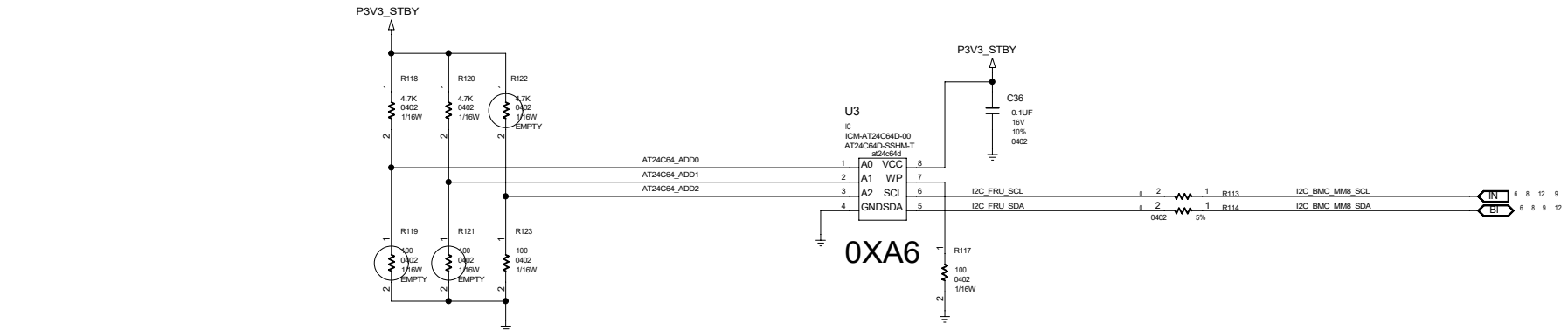
I2C BUFFER



I2C BUFFER

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	NAME	NAME	NAME	MOXLIE PDB	<ZT_NUMBER>	01
				SIZE C	DATE Fri Mar 08 09:59:41	2019
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						1

FRU/TEMP SENSOR

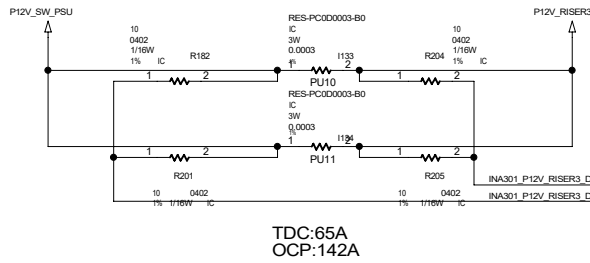


FRU/TEMP SENSOR

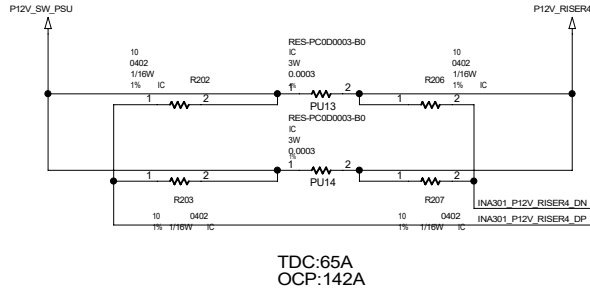
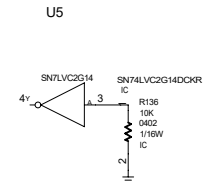
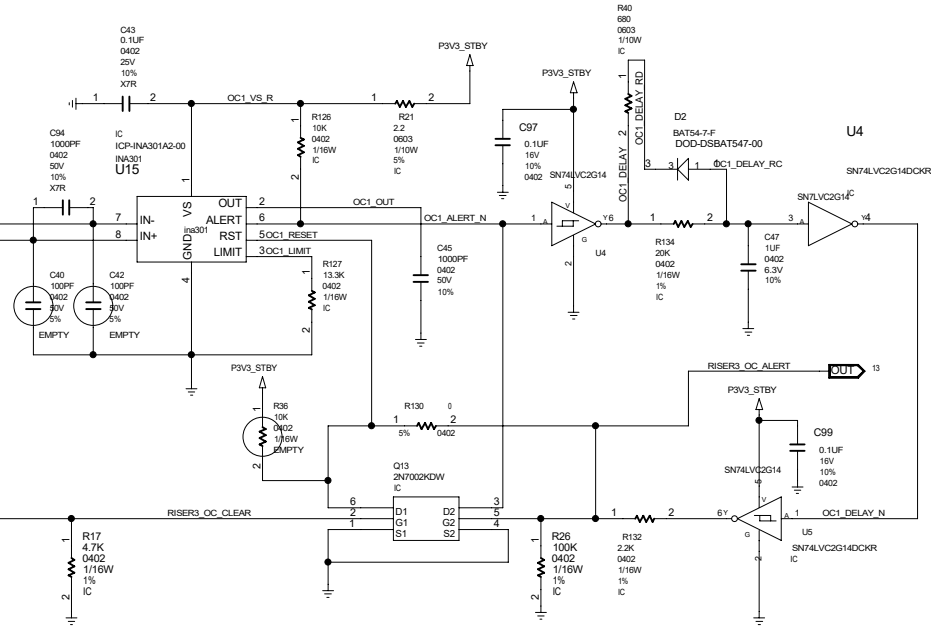


DEPARTMENT	DESIGNER	NAME	PROJECT	DOCUMENT NUMBER	REV
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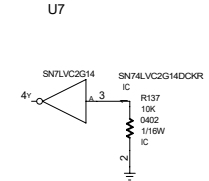
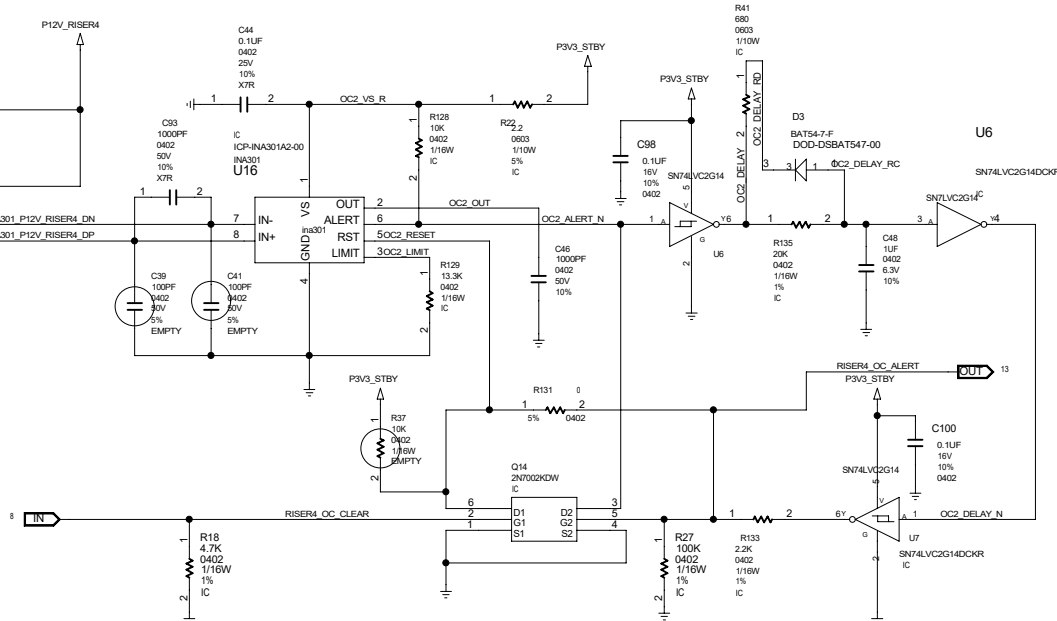
CURRENT SENSE 1/2



RISER3 + GPU



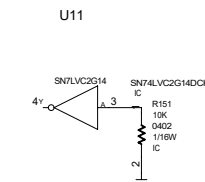
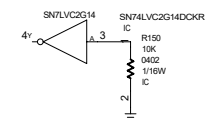
RISER4 + GPU



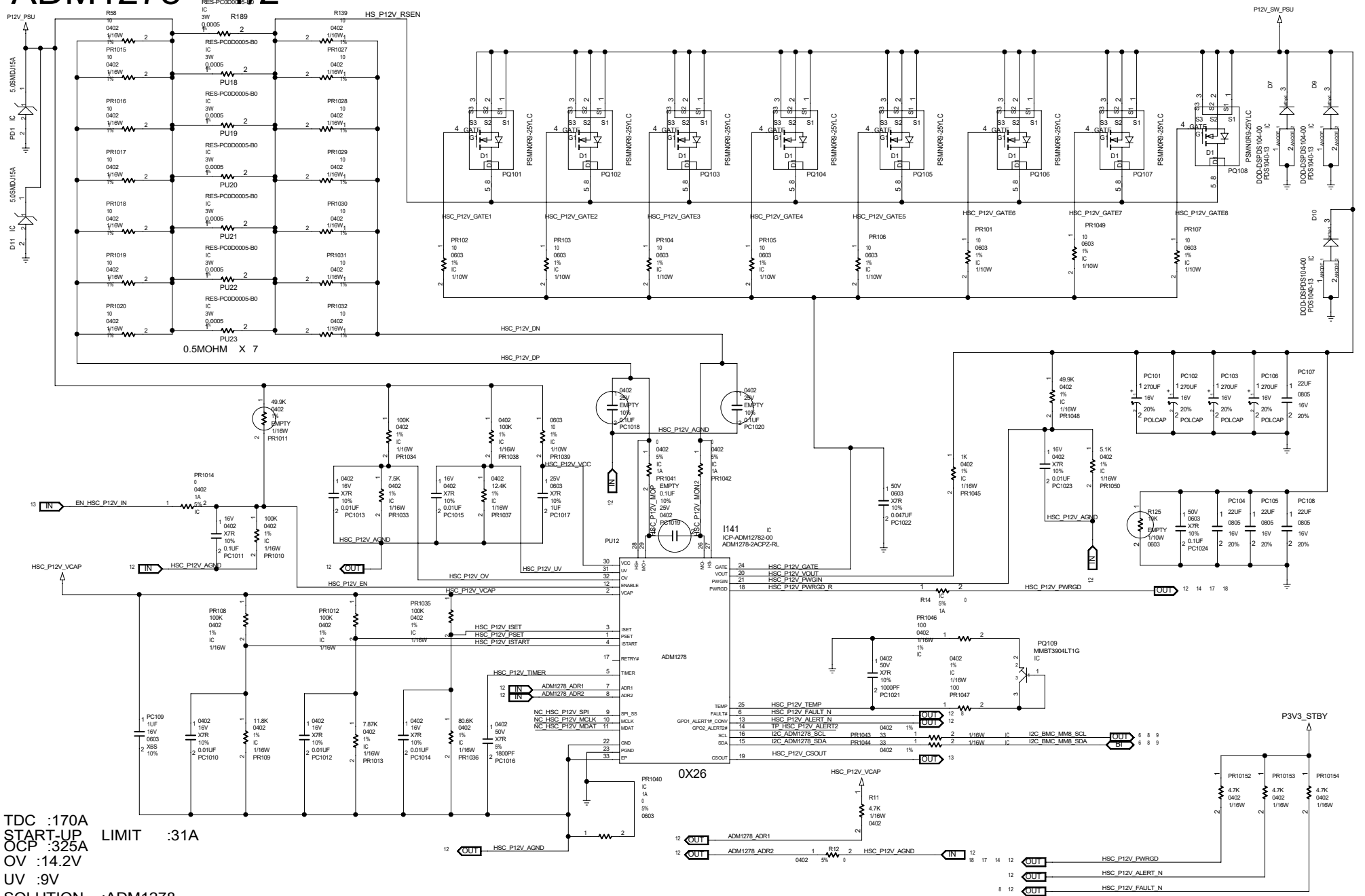
CURRENT SENSE 1/2

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	REVIEWER	NAME	NAME	MOXLIE PDB	<ZT_NUMBER>	01
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CURRENT SENSE 2/2

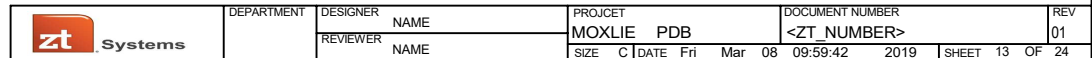


ADM1278 1/2

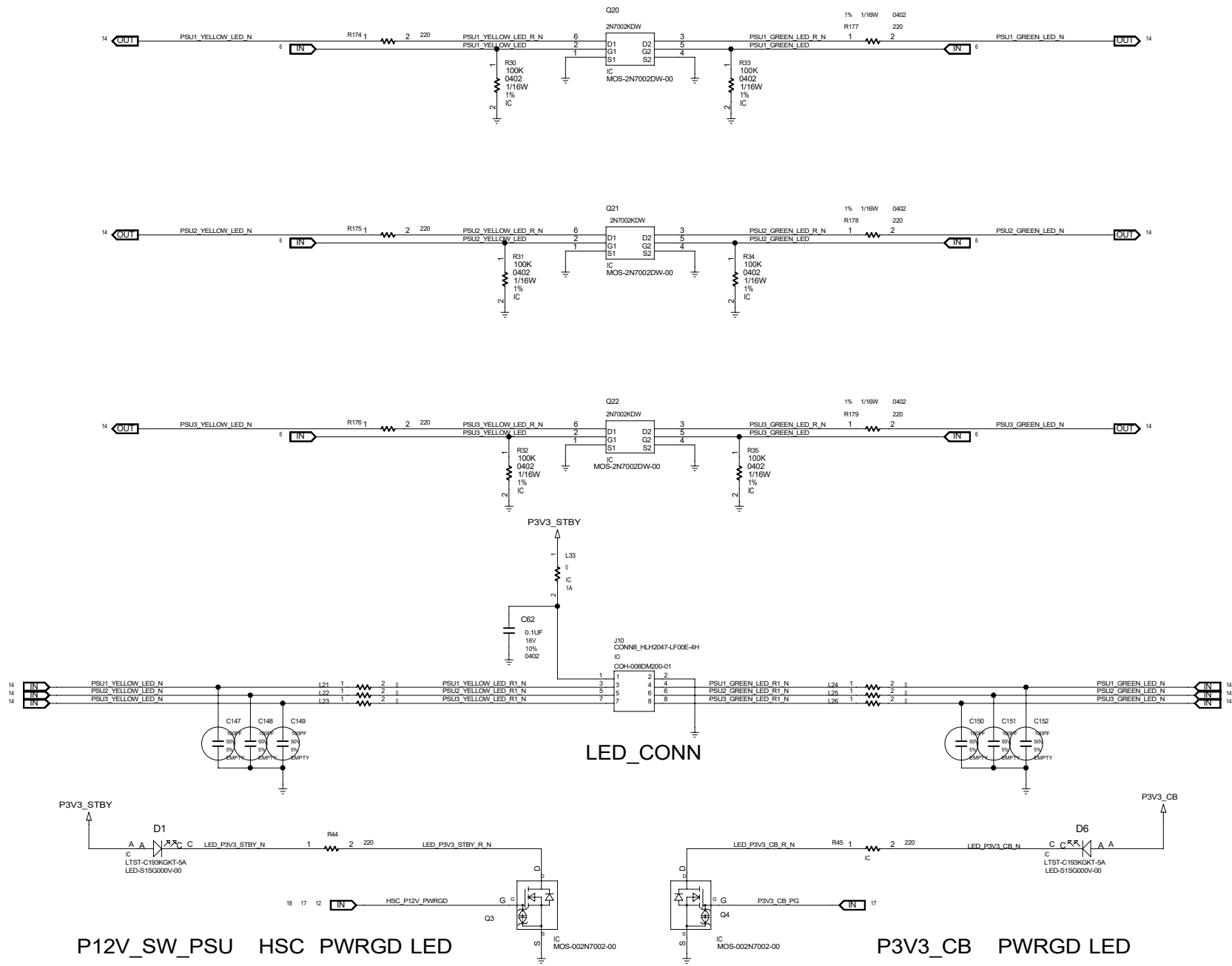


TDC :170A
START-UP LIMIT :31A
OCP :325A
OV :14.2V
UV :9V
SOLUTION :ADM1278

ADM1278 1/2



LED



LED



DEPARTMENT

DESIGNER

NAME

PROJECT

MOXLIE_PDB

DOCUMENT NUMBER

<ZT_NUMBER>

REV

01

REVIEWER

NAME

SIZE

C

DATE

Fri

Mar

08

09:59:42

2019

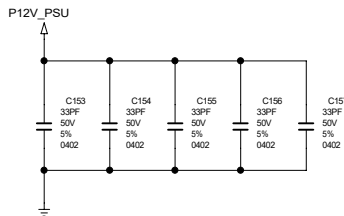
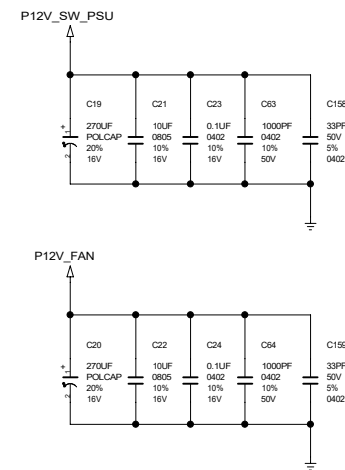
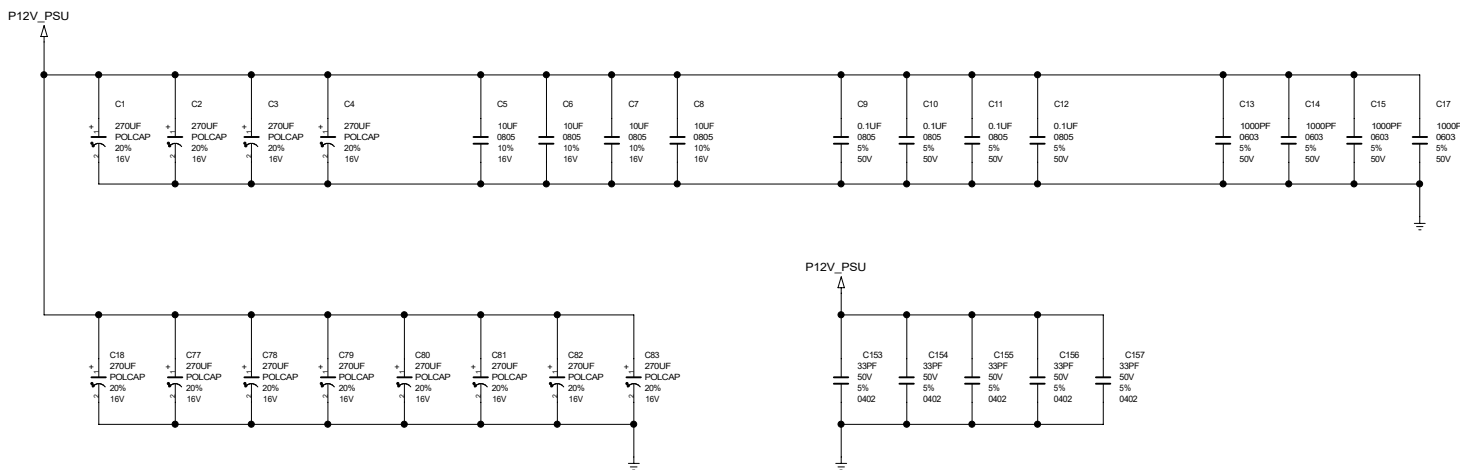
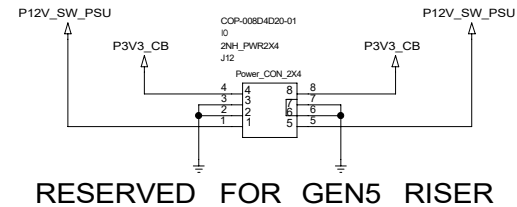
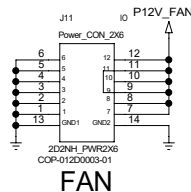
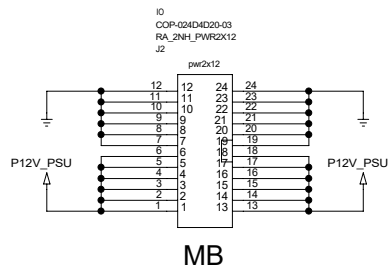
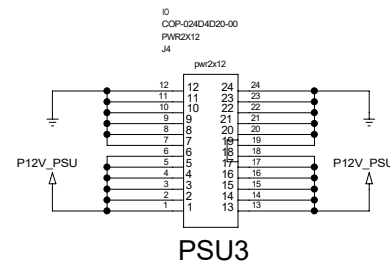
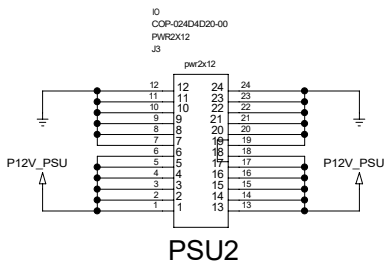
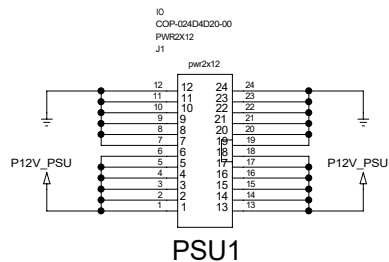
SHEET

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POWER CONNECTOR 1/2

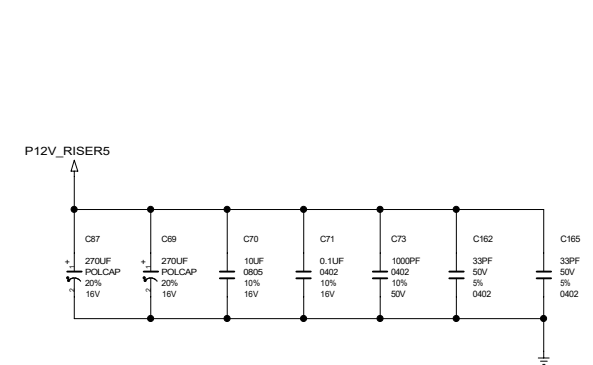
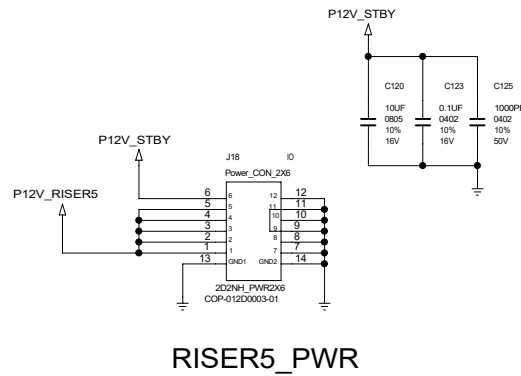
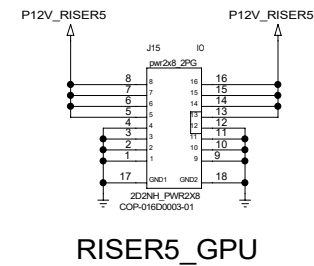
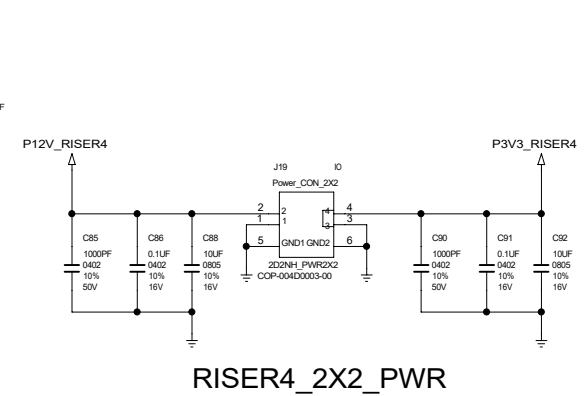
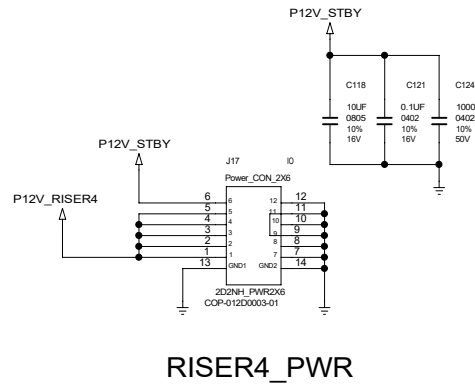
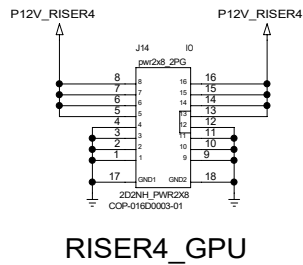
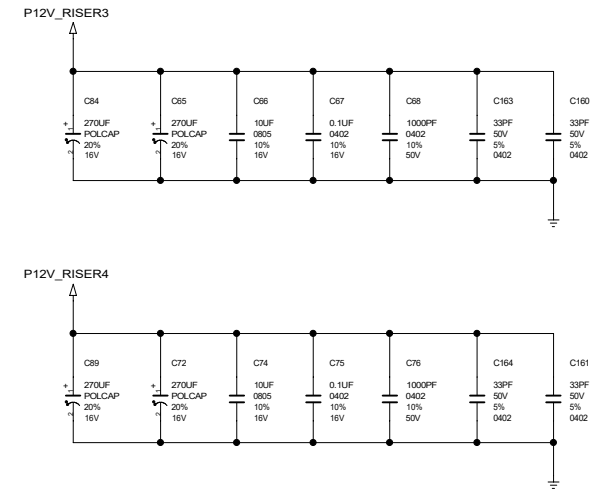
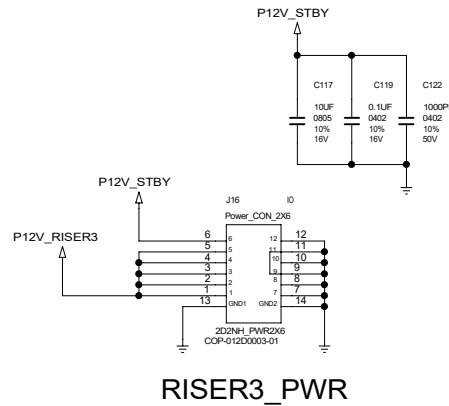
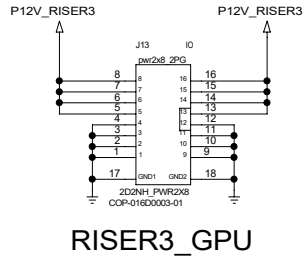


POWER CONNECTOR 1/2



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	REVIEWER	NAME	MOXLIE PDB	<ZT_NUMBER>	01
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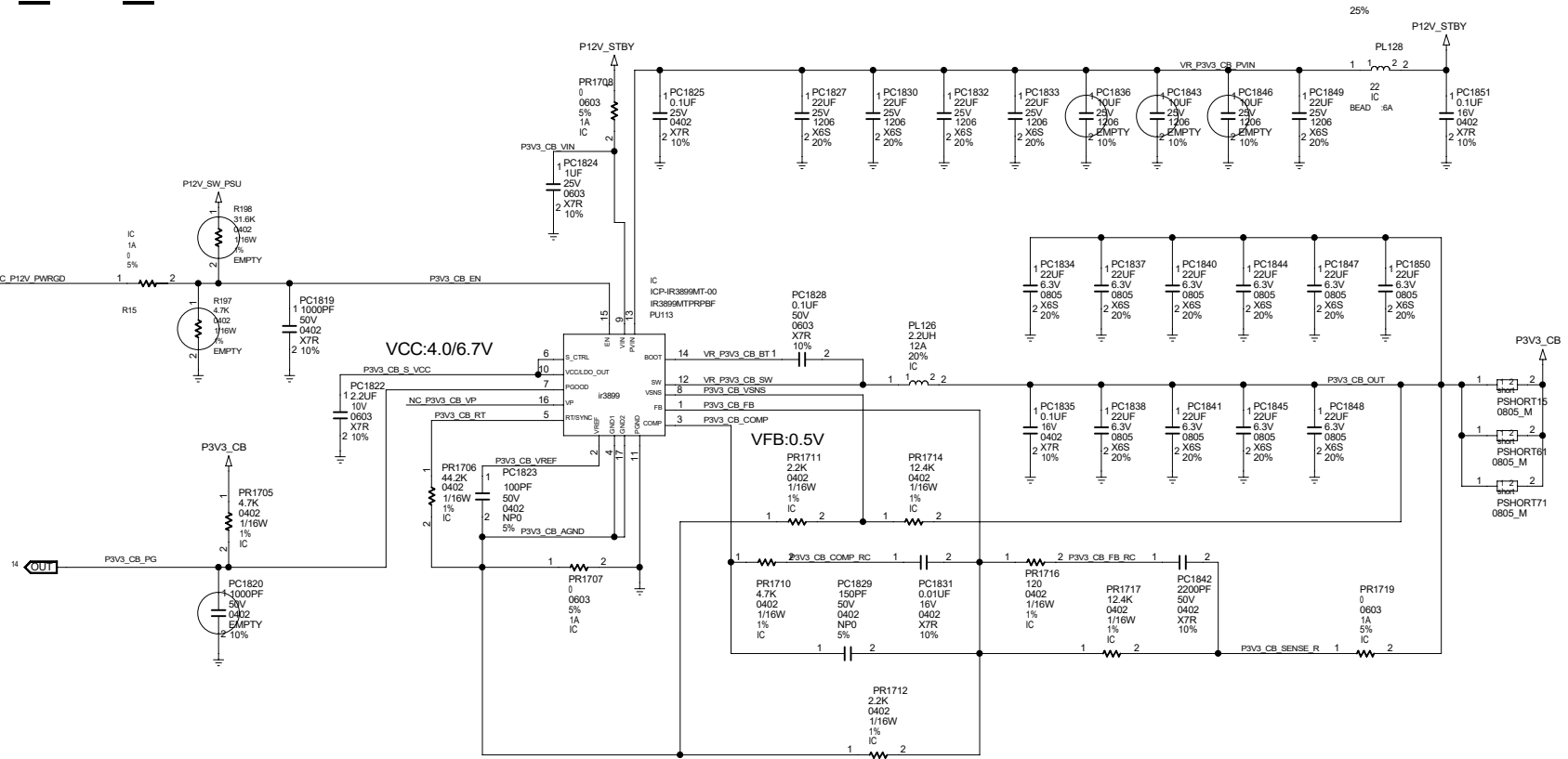
POWER CONNECTOR 2/2



POWER CONNECTOR 2/2

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P3V3_CB_VR



```

P12V_PSU    TO P3V3_CB    (AC: +/-5%)
TDC      :6A
IMAX      :6A
OCP       :MIN=7.2A        (FIXED   BY VR CHIP)
FSW       :540KHZ
SOLUTION   :IR3899         (9A    POL)

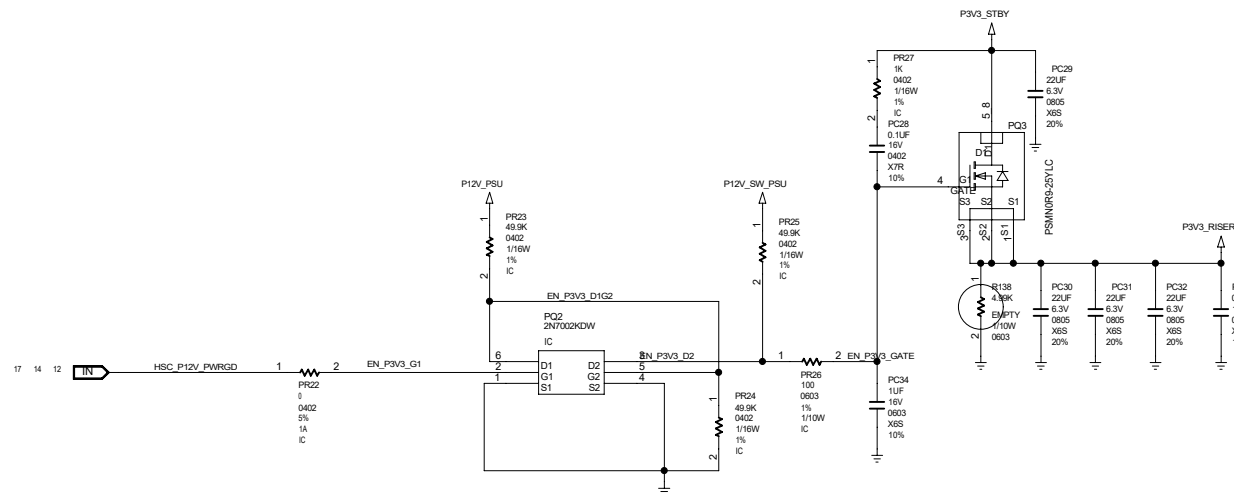
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P3V3 CB VR



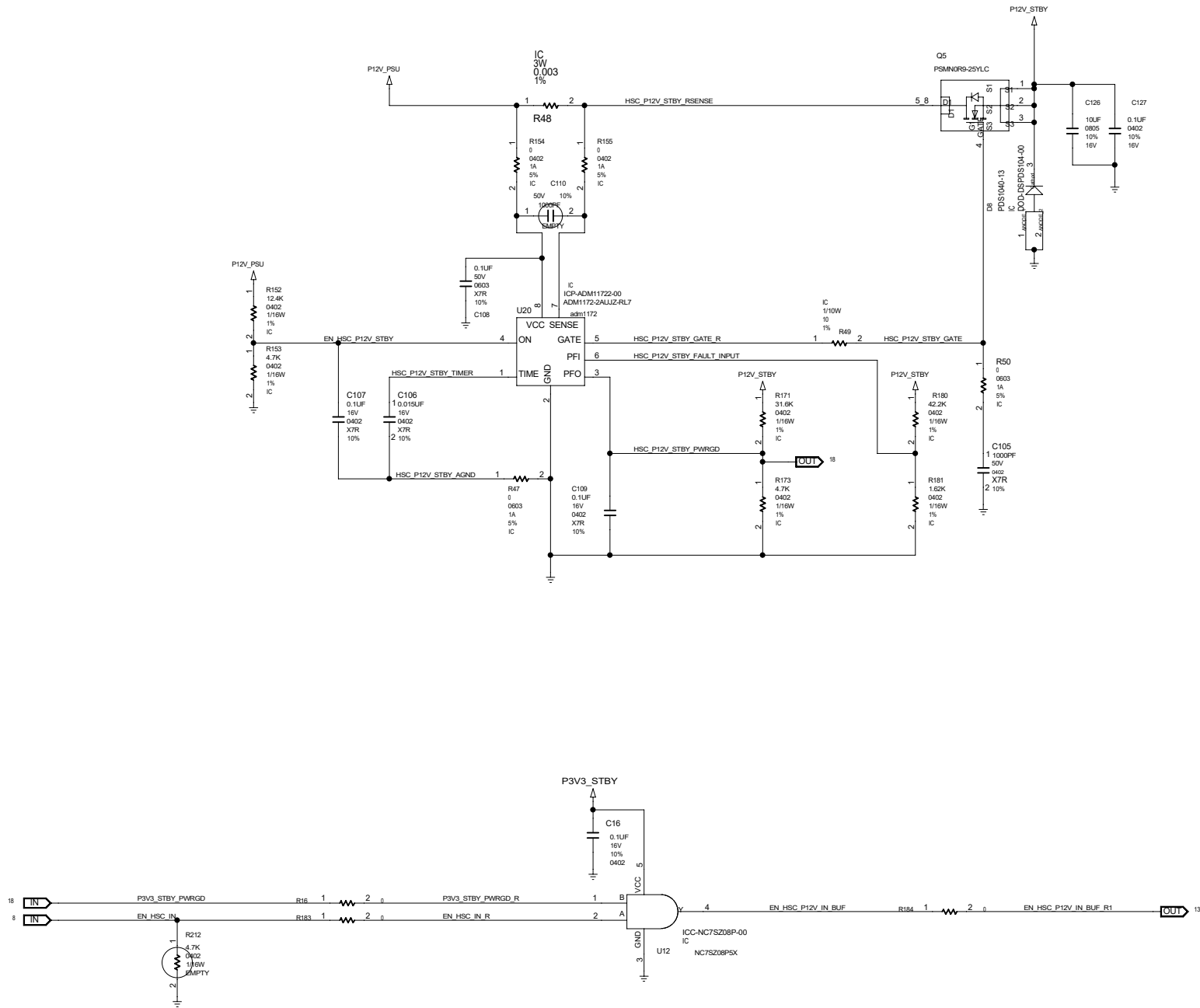
DEPARTMENT	DESIGNER	PROJECT	DOCUMENT NUMBER	REV
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	NAME	Fri Mar 08	09:59:43 2019	SHEET 17 OF 24

P12V_PSU TO P3V3_STBY (AC: +/-5%)
TDC :4A
IMAX :4A
OCP :MIN=4.8A (FIXED BY VR CHIP)
FSW :605KHZ
SOLUTION :IR3897 (4A POL)
P3V3 STBY VR



P12V_PSU TO P3V3_STBY (AC: +/-5%)
TDC :4A
IMAX :4A
OCP :MIN=4.8A (FIXED BY VR CHIP)
FSW :605KHZ
SOLUTION :IR3897 (4A POL)

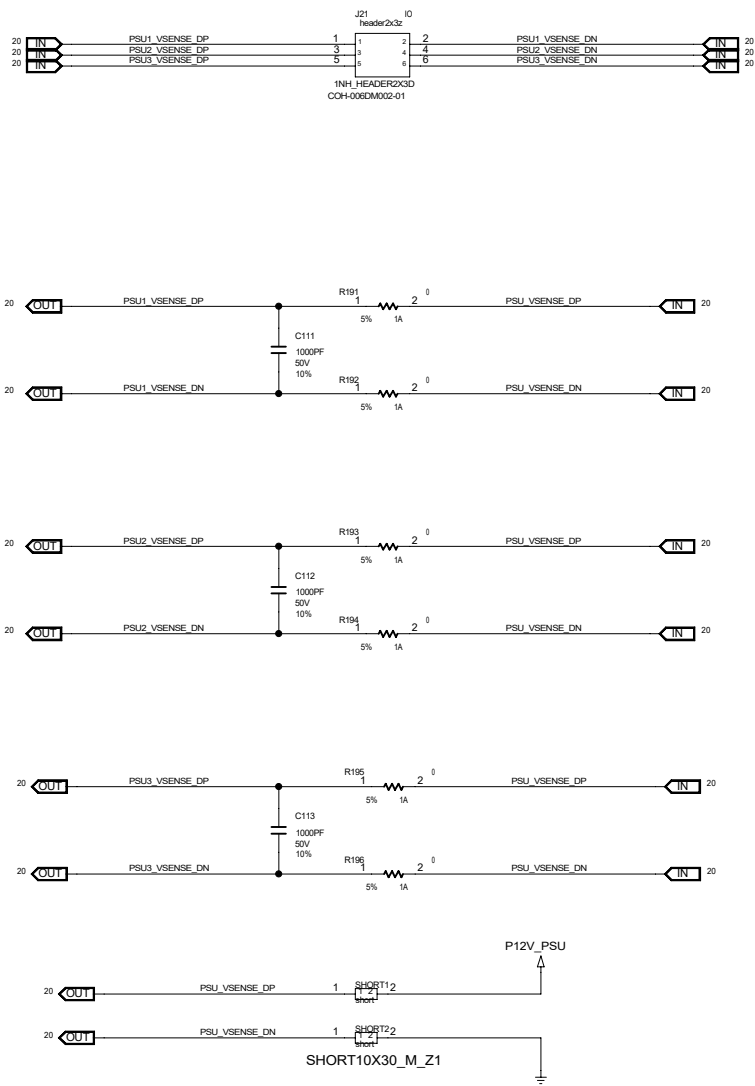
ADM1172



TDC :10A
 OCP :14.52A
 SOLUTION :ADM1172
ADM1172

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	REVIEWER	NAME	NAME	MOXLIE PDB	<ZT_NUMBER>	01
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VSENSE CONNECTOR

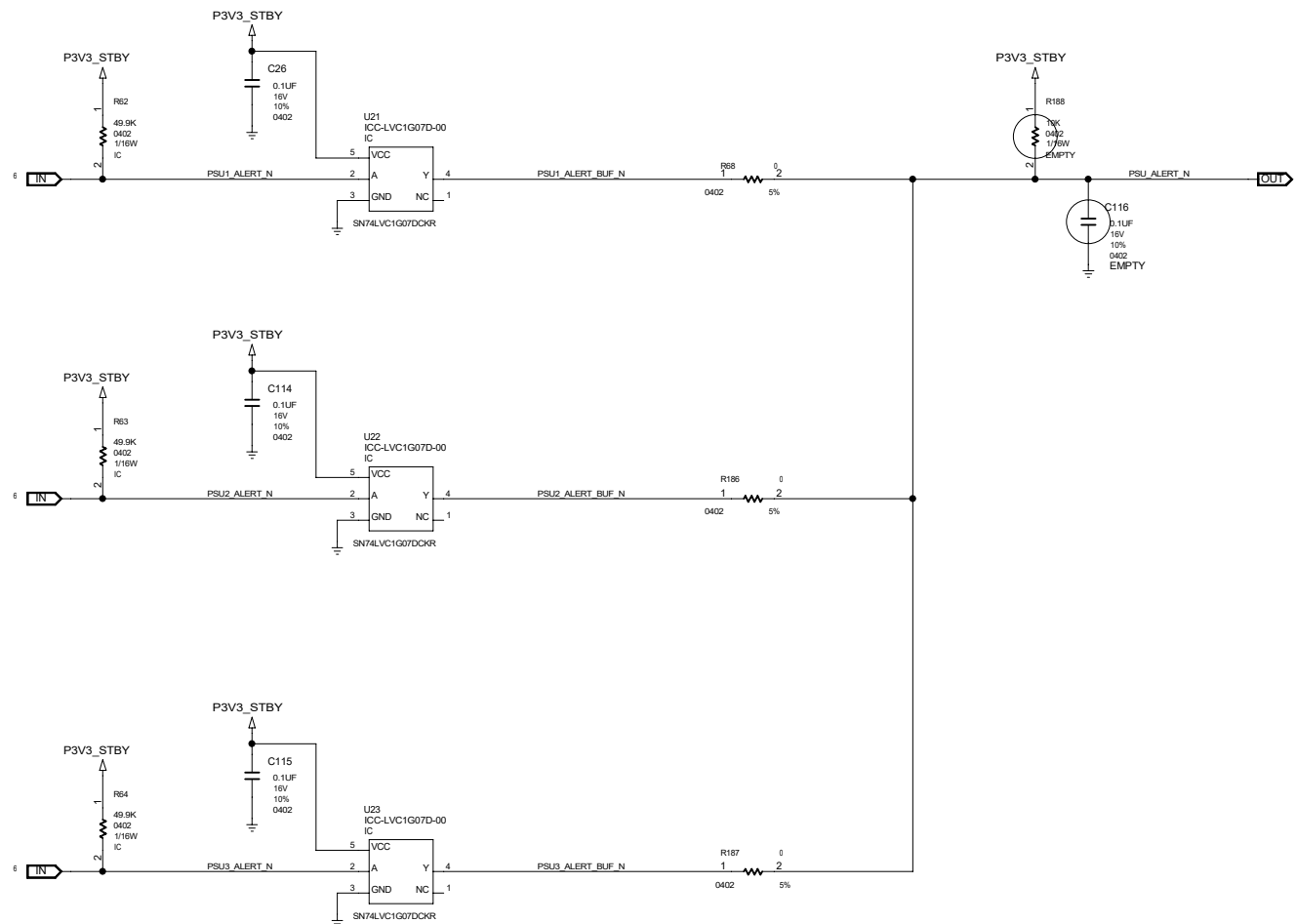


VSENSE CONNECTOR



DEPARTMENT	DESIGNER NAME	PROJECT	DOCUMENT NUMBER	REV
	REVIEWER NAME	MOXLIE PDB	<ZT_NUMBER>	01
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PSU_ALERT



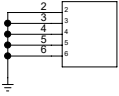
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	DEPARTMENT	DESIGNER NAME	PROJECT	DOCUMENT NUMBER	REV
		REVIEWER NAME	MOXLIE PDB	<ZT_NUMBER>	01
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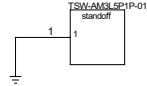
SCREW HOLES

LABELS

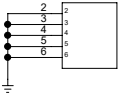
EMPTY
C10D4XC10D6.5_5V
MH1



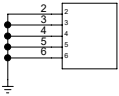
MH6
HOLE_C10D5-6B10_NPB_H11_STANDOFF
IO



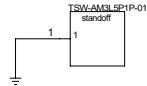
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MH2



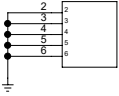
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MH3



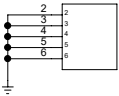
MH7
HOLE_C10D5-6B10_NPB_H11_STANDOFF
IO



EMPTY
C10D4XC10D6.5_5V
MH4



EMPTY
C10D4XC10D6.5_5V
MH5



I1

ME1
ZT_LOG_6X16
EMPTY
MEDUMMY3



ZT LOGO

ME2
LABEL20X4_SST21X5
EMPTY
MEDUMMY5



MFG. PN LABEL

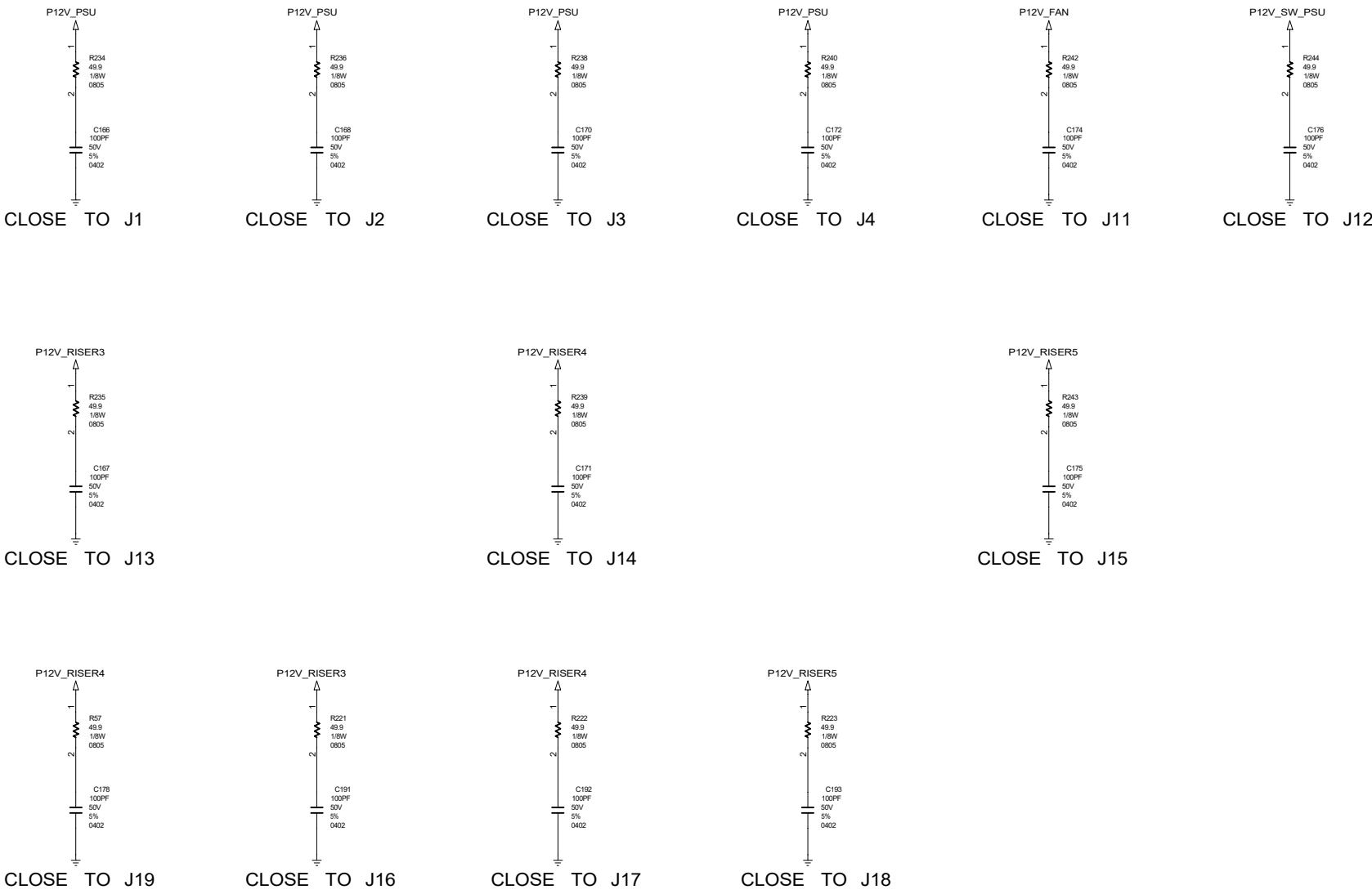
I3

ME3
LABEL_32X6_FULL
EMPTY
MEDUMMY7



ZT PN LABEL

EMI PROTECTION



EMI PROTECTION

7		6		5		4		3		2		1	
E													
D													
C													
B													
A													
BLANK													
													
DEPARTMENT		DESIGNER NAME		PROJECT		DOCUMENT NUMBER		REV					
		NAME		MOXLIE PDB		<ZT_NUMBER>		01					
REVIEWER NAME		NAME		SIZE C		DATE Mon Oct 22 10:00:14 2018		SHEET 24 OF 24					