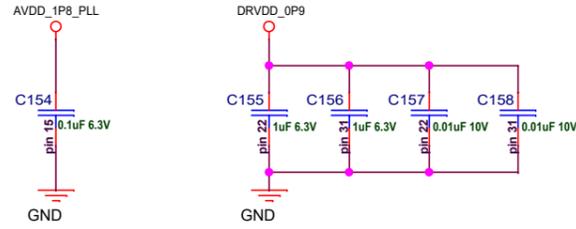
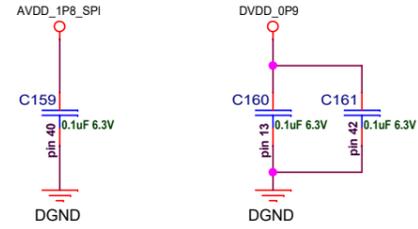


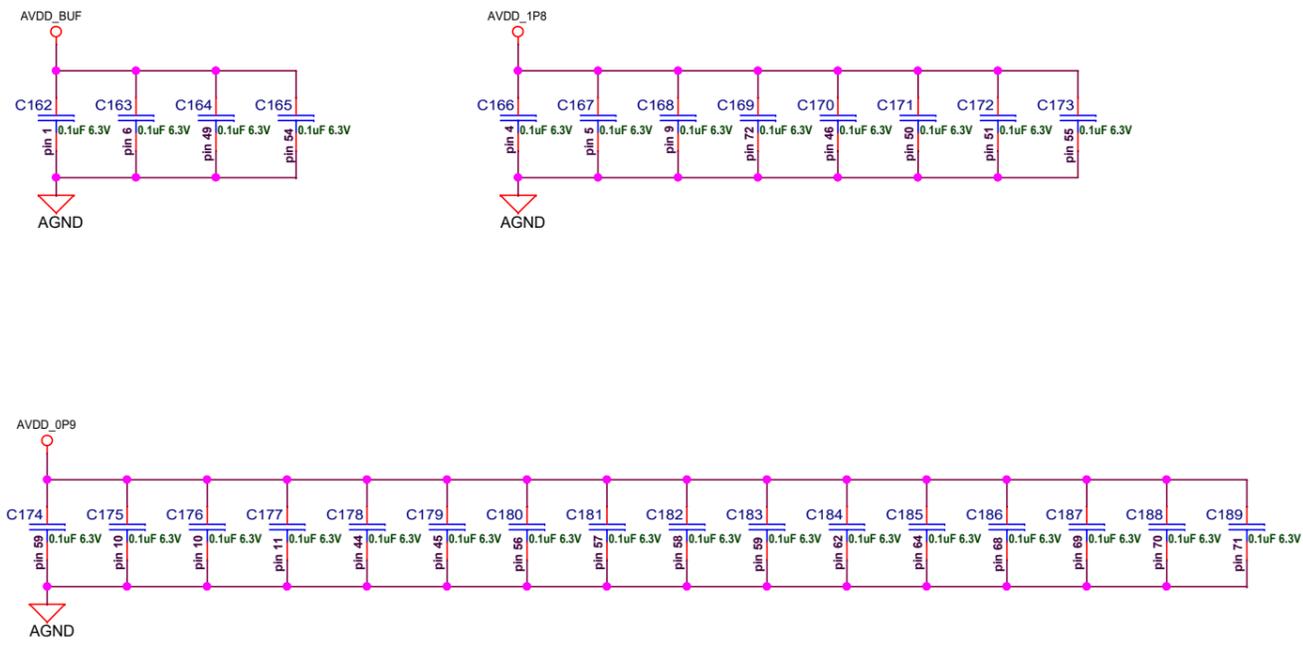
DRIVER DECOUPLING CAPACITORS



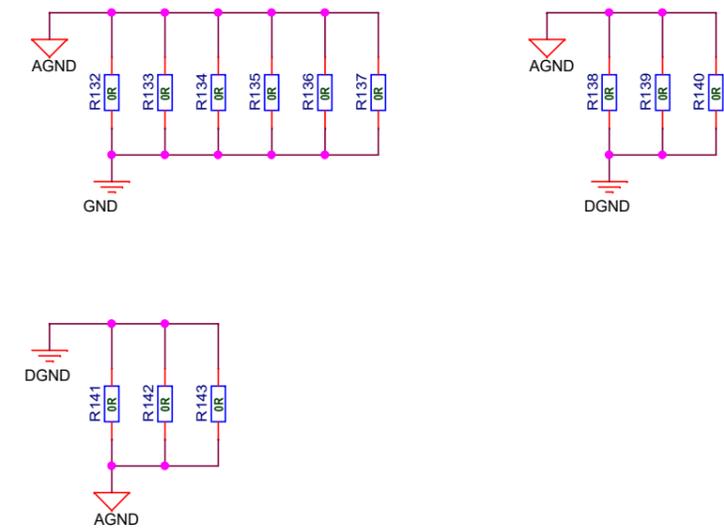
DIGITAL DECOUPLING CAPACITORS

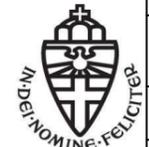
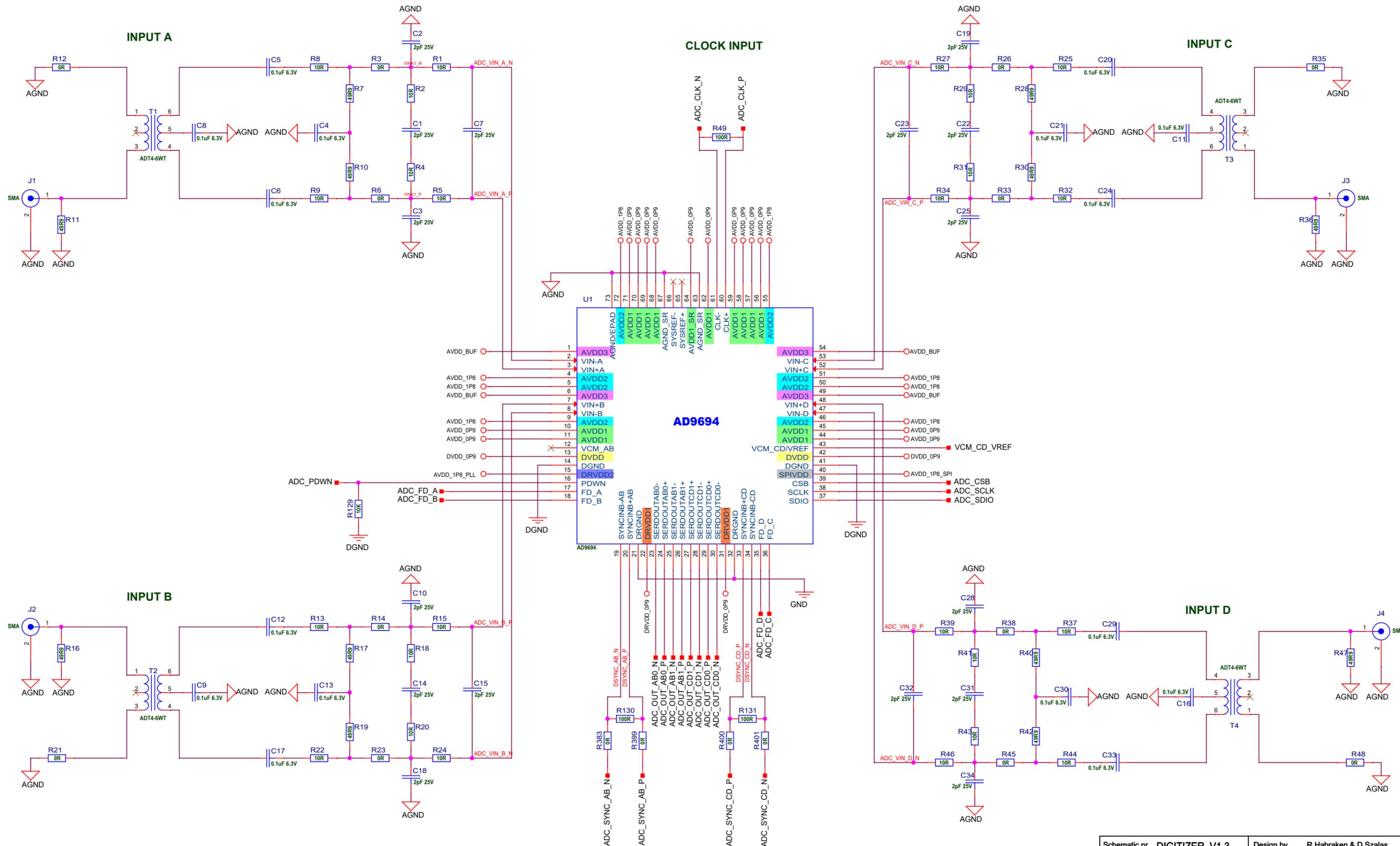


ANALOG DECOUPLING CAPACITORS

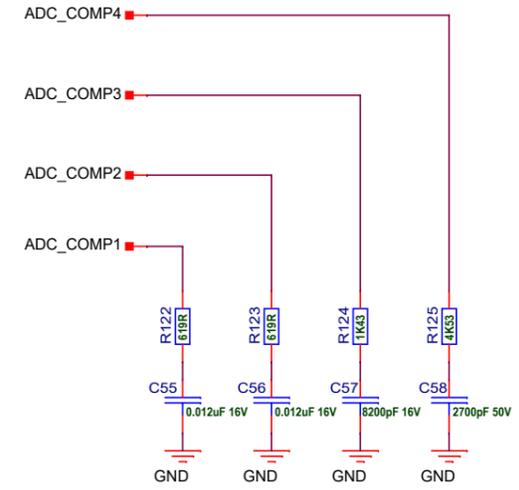
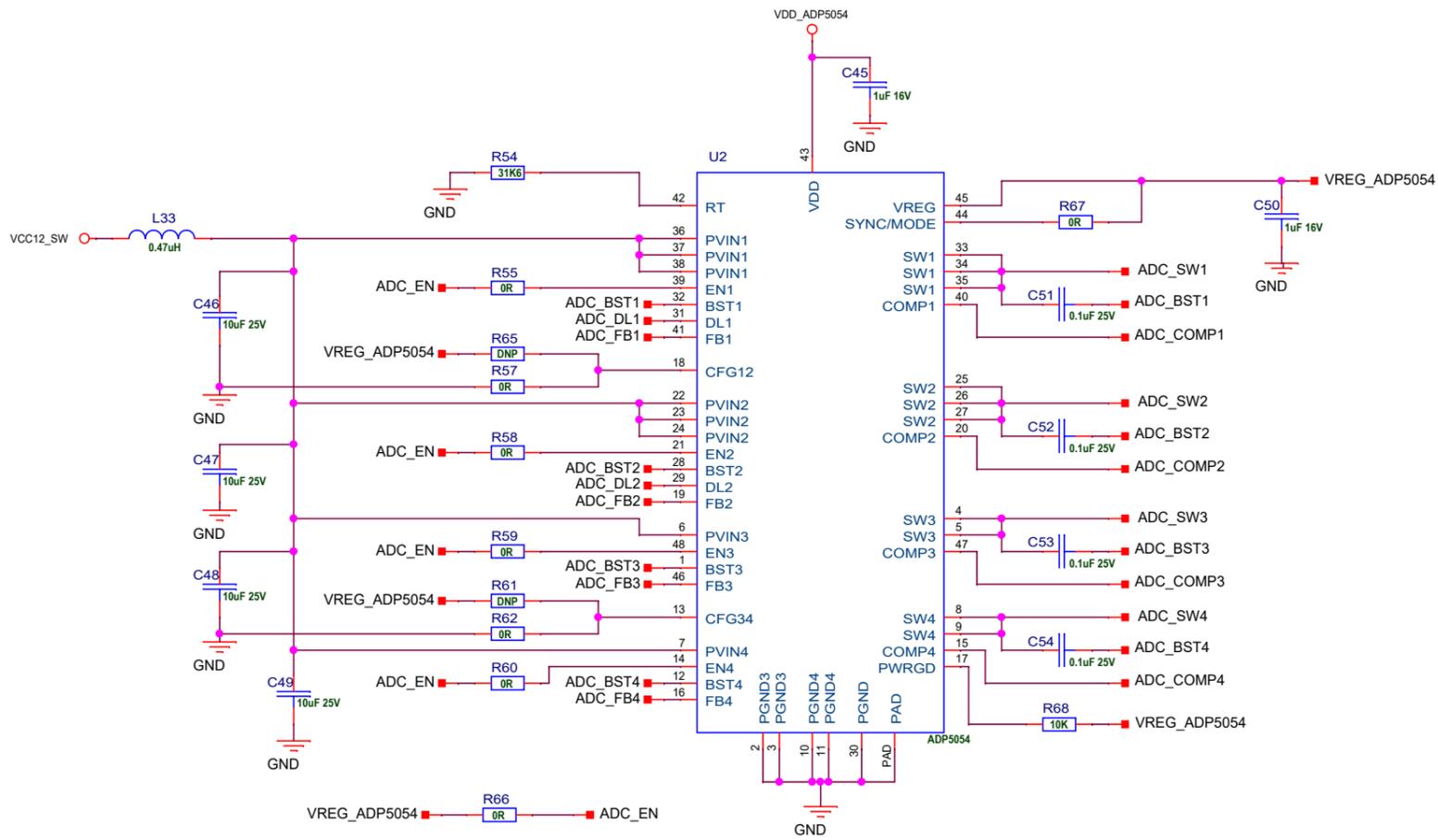


ADD TIES BETWEEN GROUND PLANES

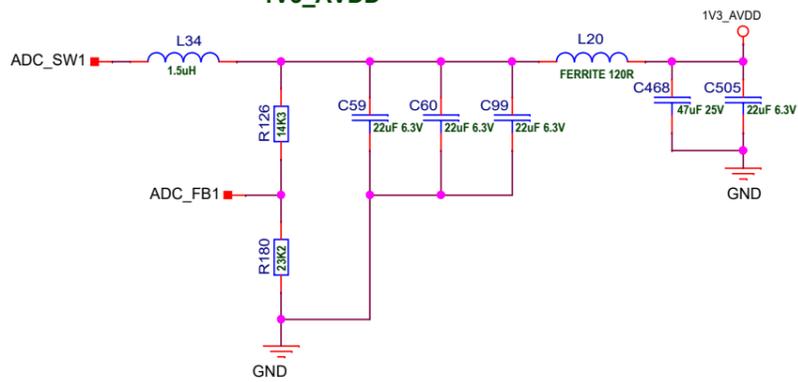




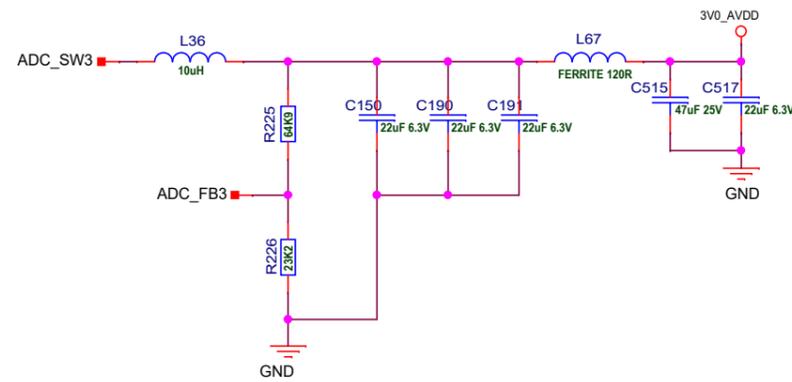
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Size A3	Project nr. <Doc>	Drawing by F.Hahn	Rev 1.0
Date: Monday, January 14, 2019	Sheet 2	Print (pcb) nr. 150133	of 59



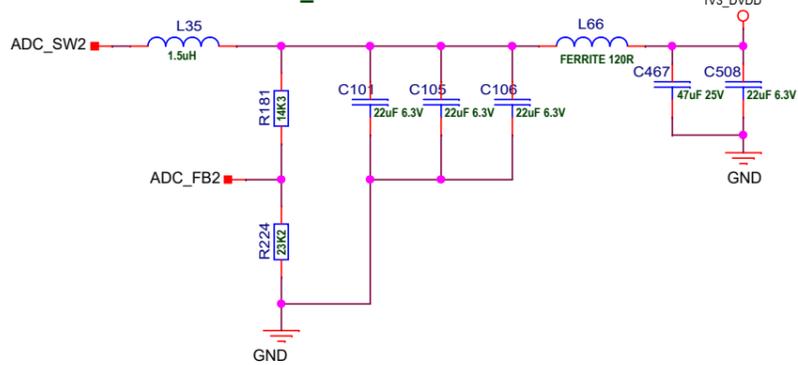
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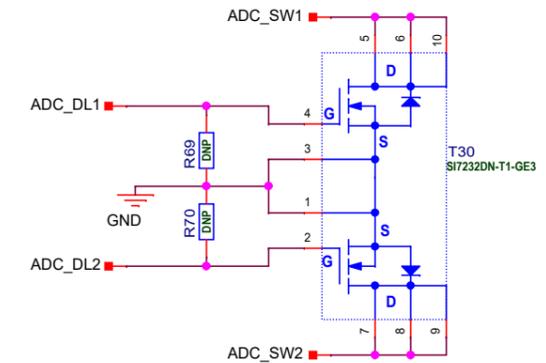
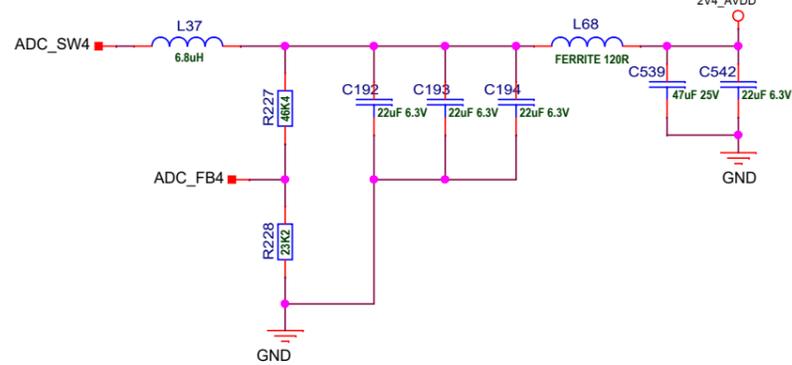
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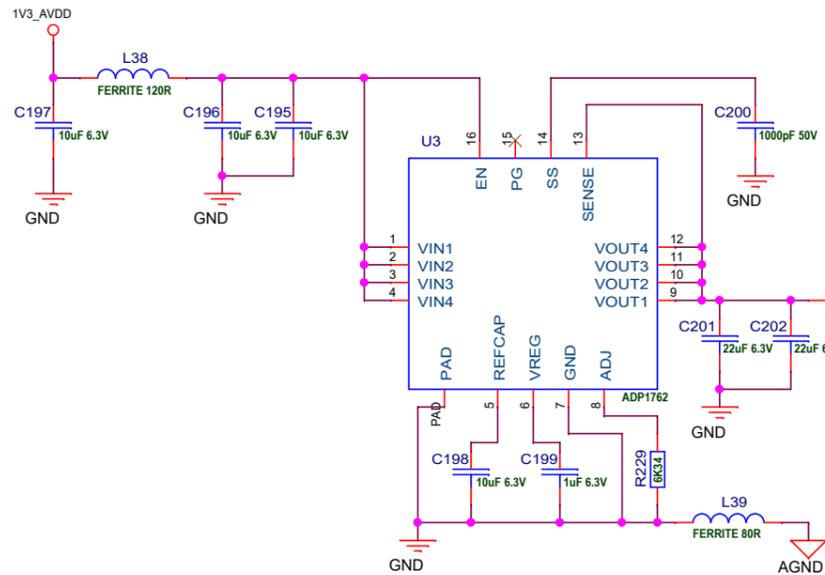
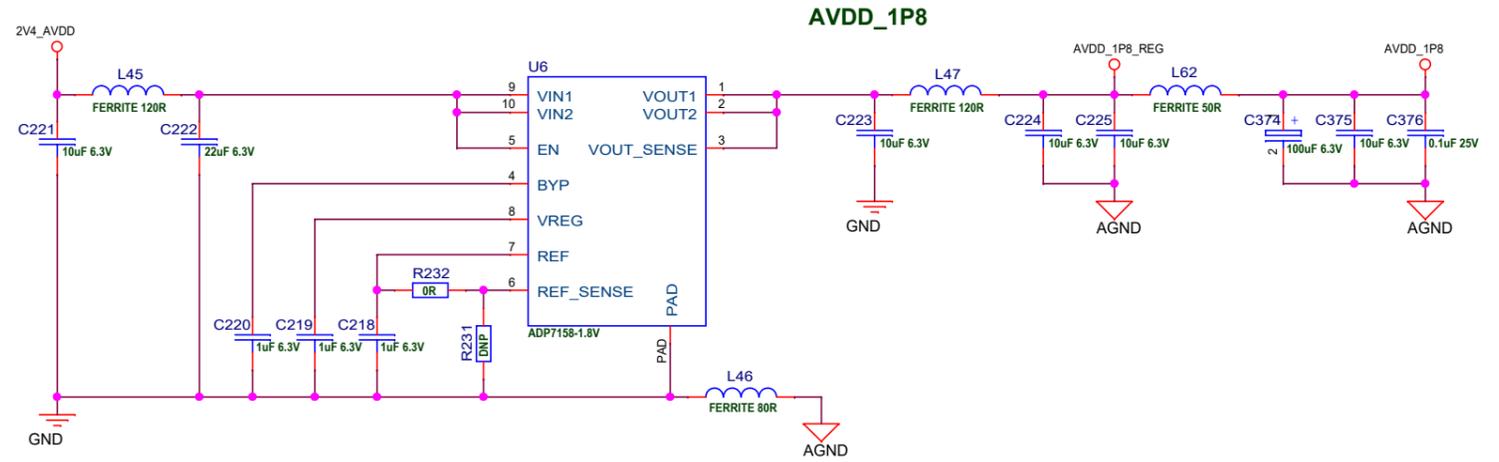
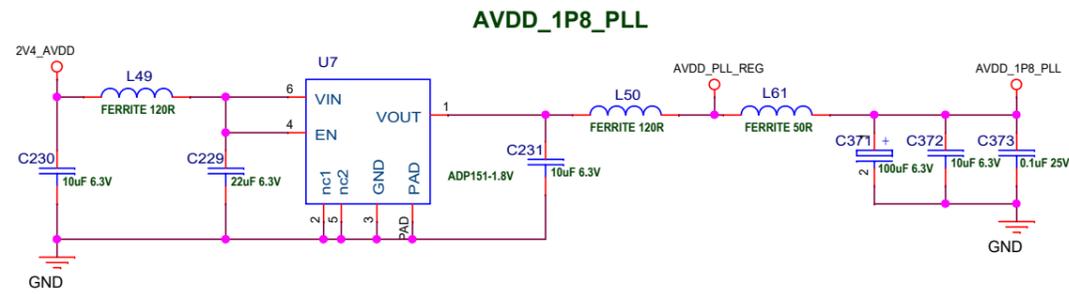


1V3_DVDD

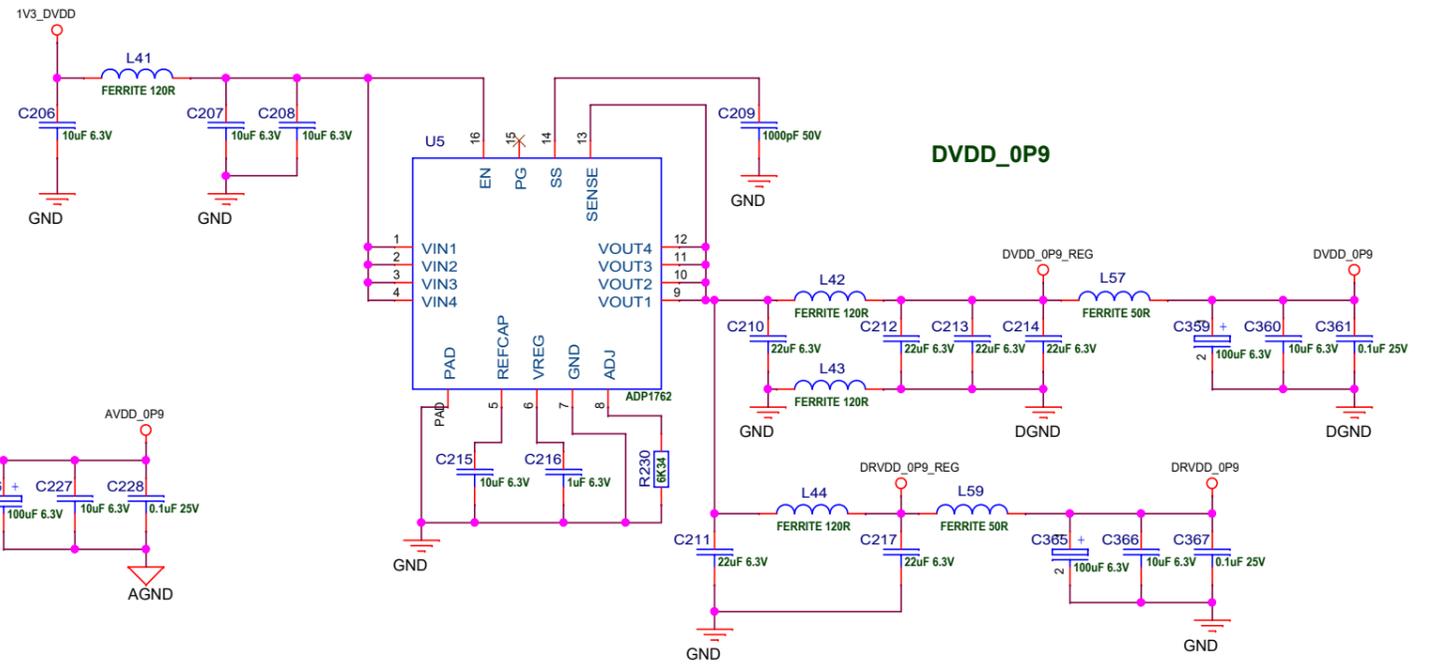


2V4_AVDD



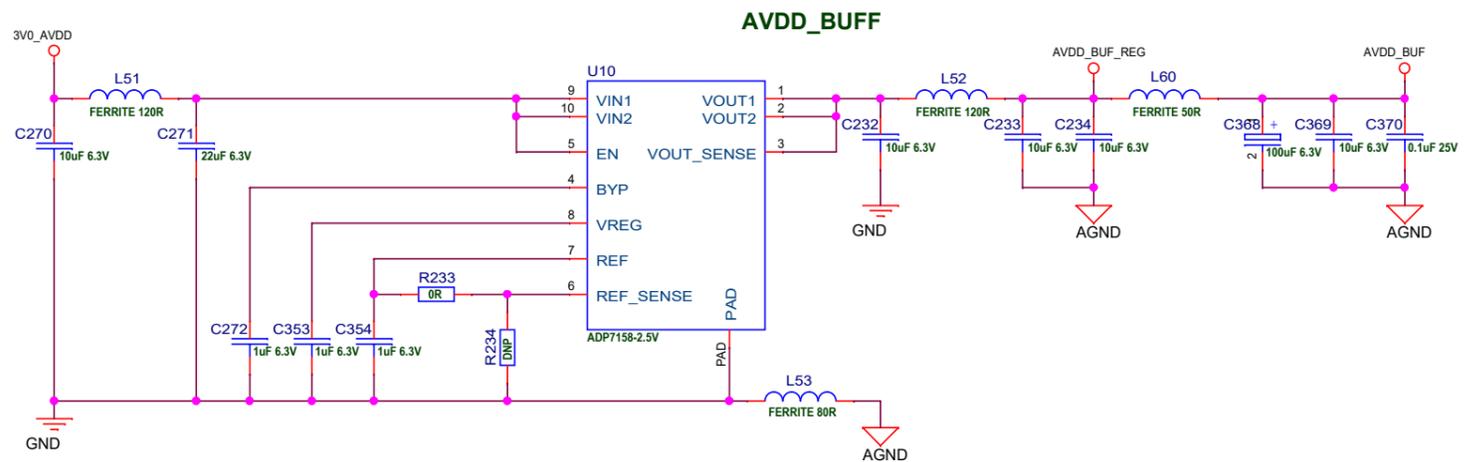
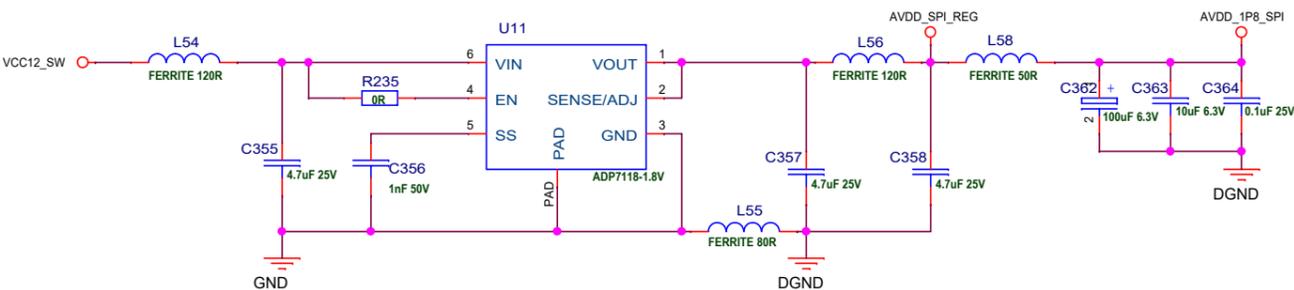


AVDD_0P9



DVDD_0P9

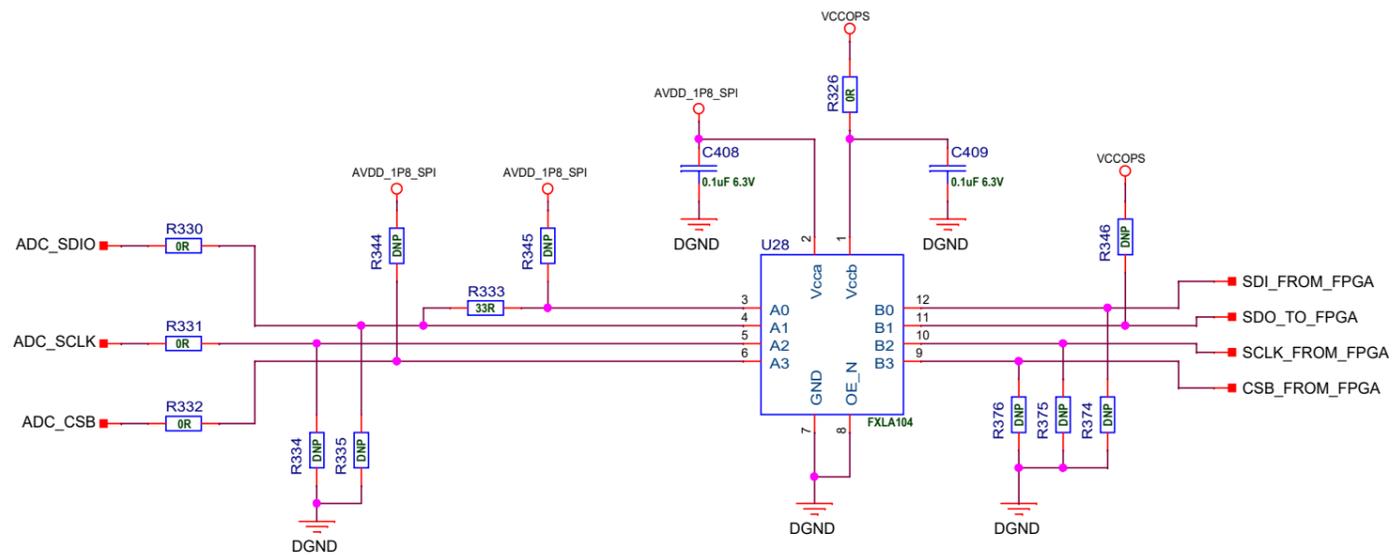
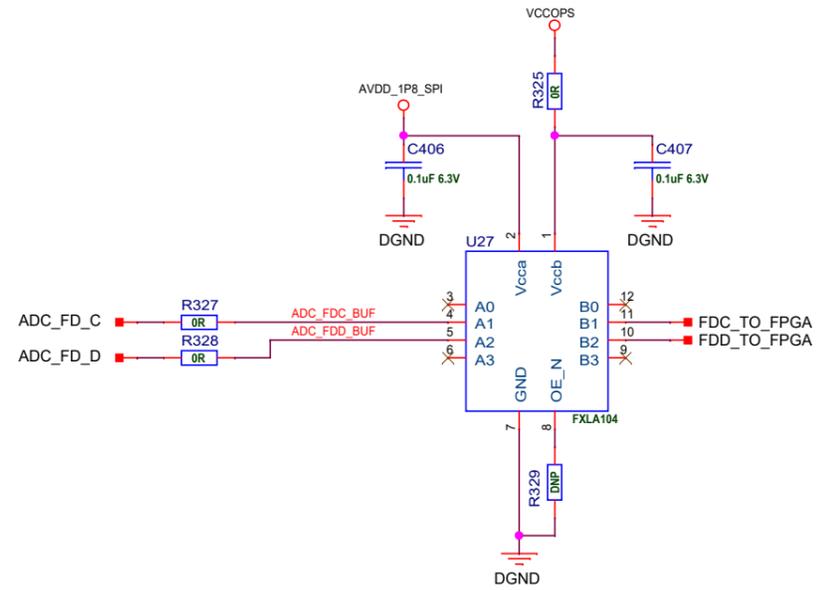
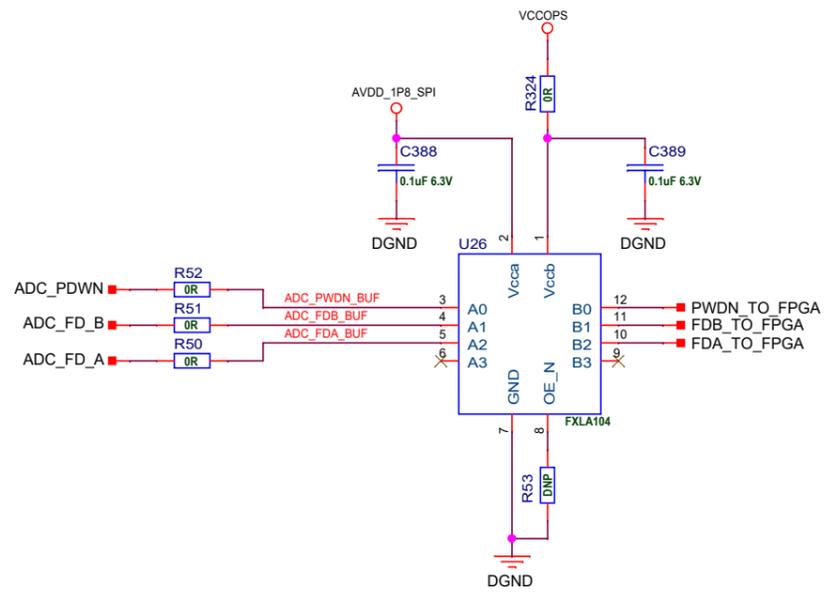
AVDD_1P8_SPI



AVDD_BUFF

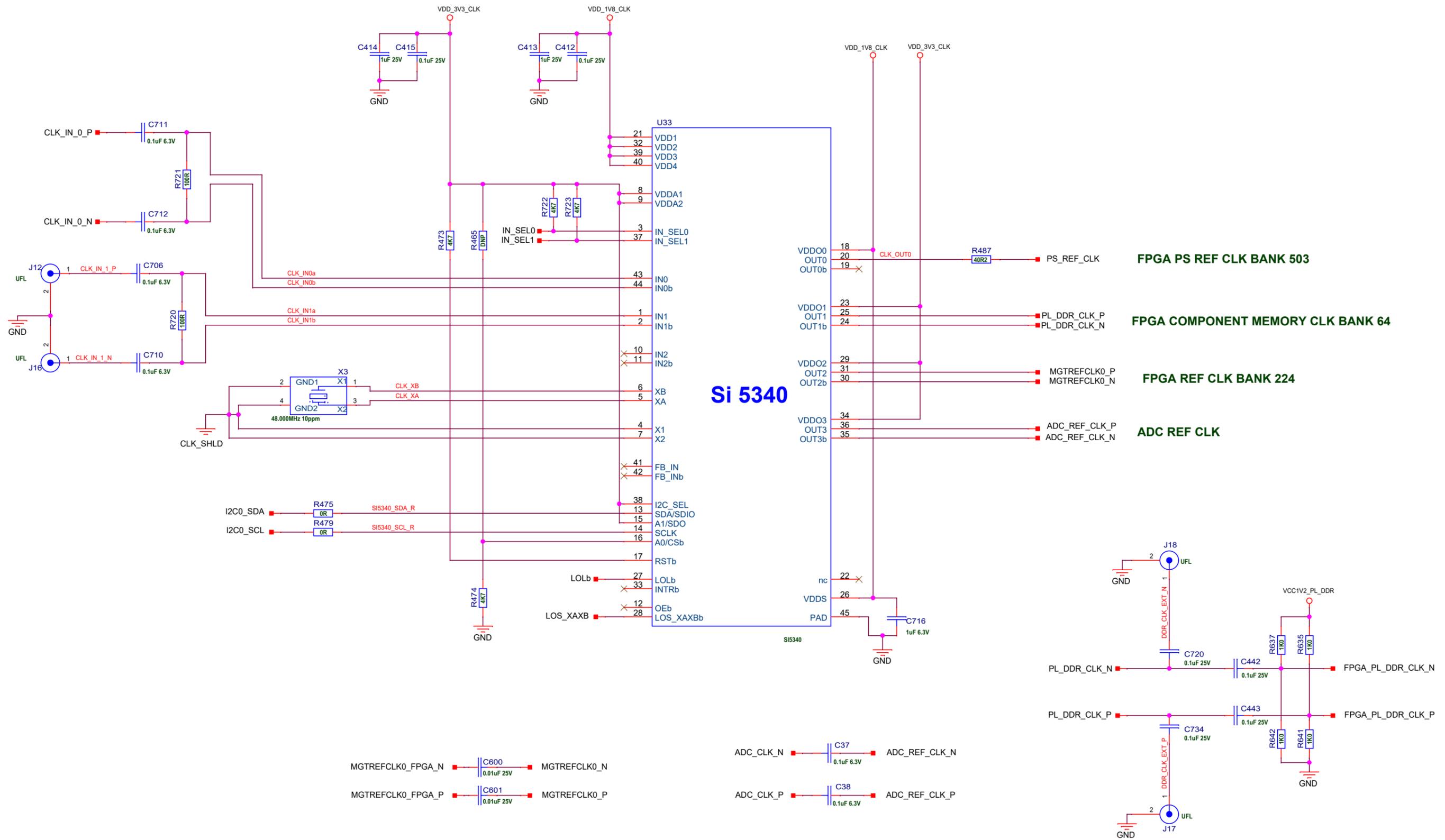


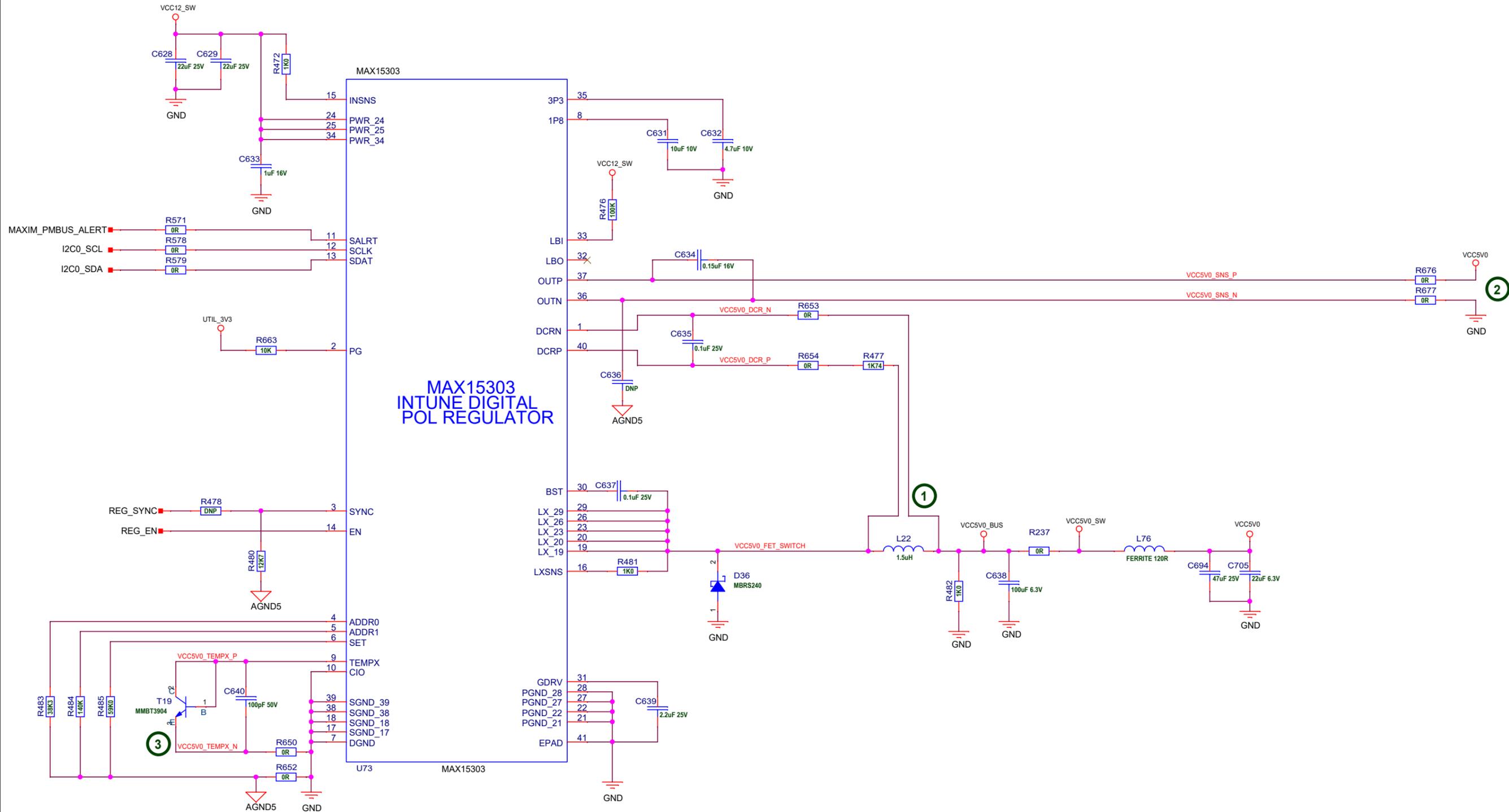
Schematic nr. DIGITIZER_V1.3		Design by R.Habraken & D.Szalas	
Title 6078_HEF_GRAND_DIGITIZER2			
Page ADC_PSU2			
Size A3	Project nr. <Doc>	Drawing by F.Hahn	Rev 1.0
Date: Monday, January 14, 2019		Print (pcb) nr. 150133	Sheet 4 of 59



Schematic nr. DIGITIZER_V1.3		Design by R.Habraken & D.Szalas	
Title 6078_HEF_GRAND_DIGITIZER2			
Page ADC_SPI			
Size A3	Project nr. <Doc>	Drawing by F.Hahn	Rev 1.0
Date: Monday, January 14, 2019		Print (pcb) nr. 150133	
		Sheet 5 of 59	

CLOCK SIGNALS

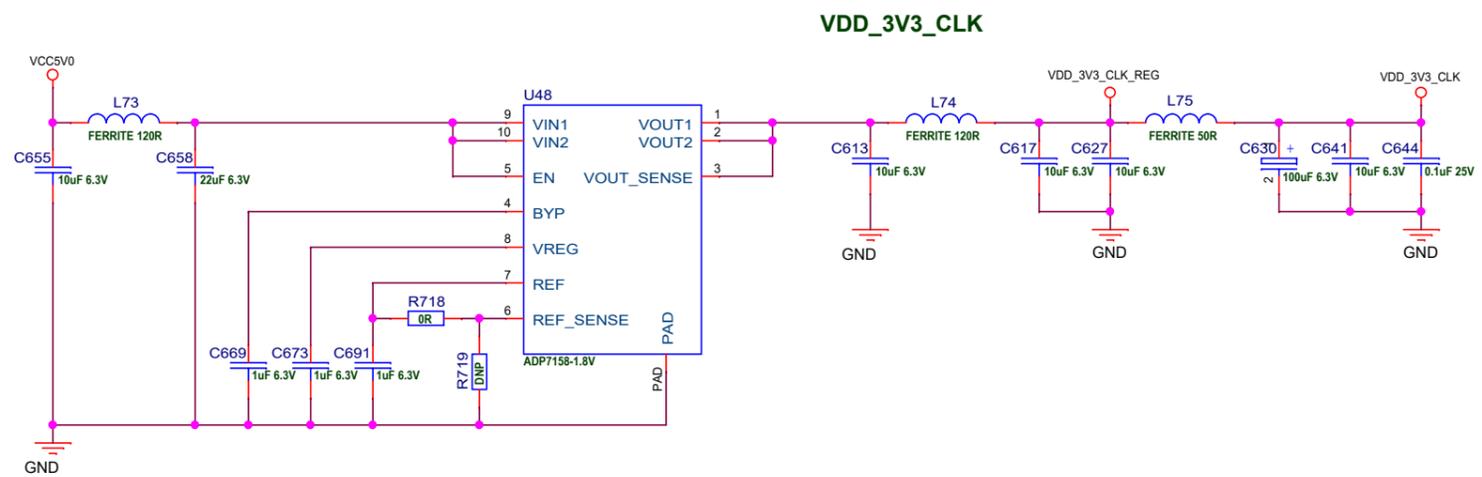
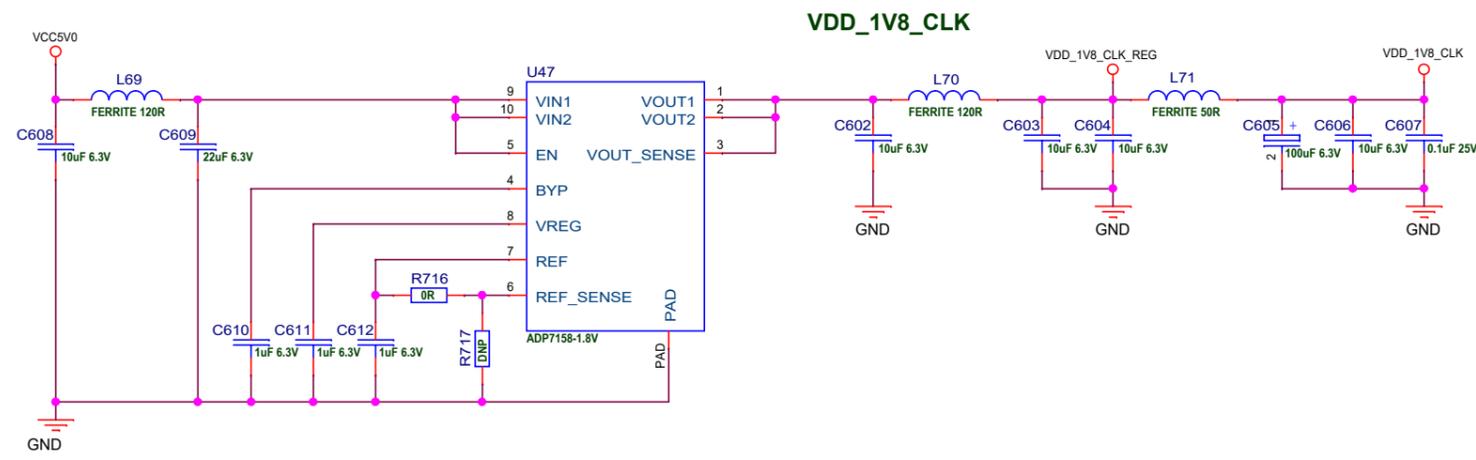


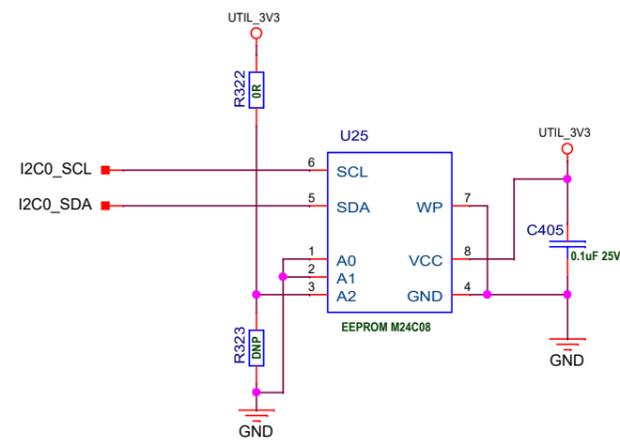


- ① Connect across pins output inductor L22!
- ② Connect remote sense connections at DUT pads
- ③ Place temp.compensation resistor on backside of pcb direct under output inductor L22.

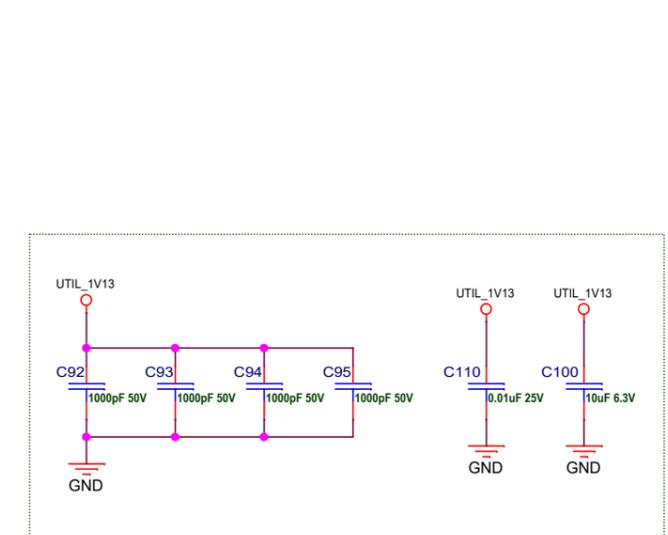
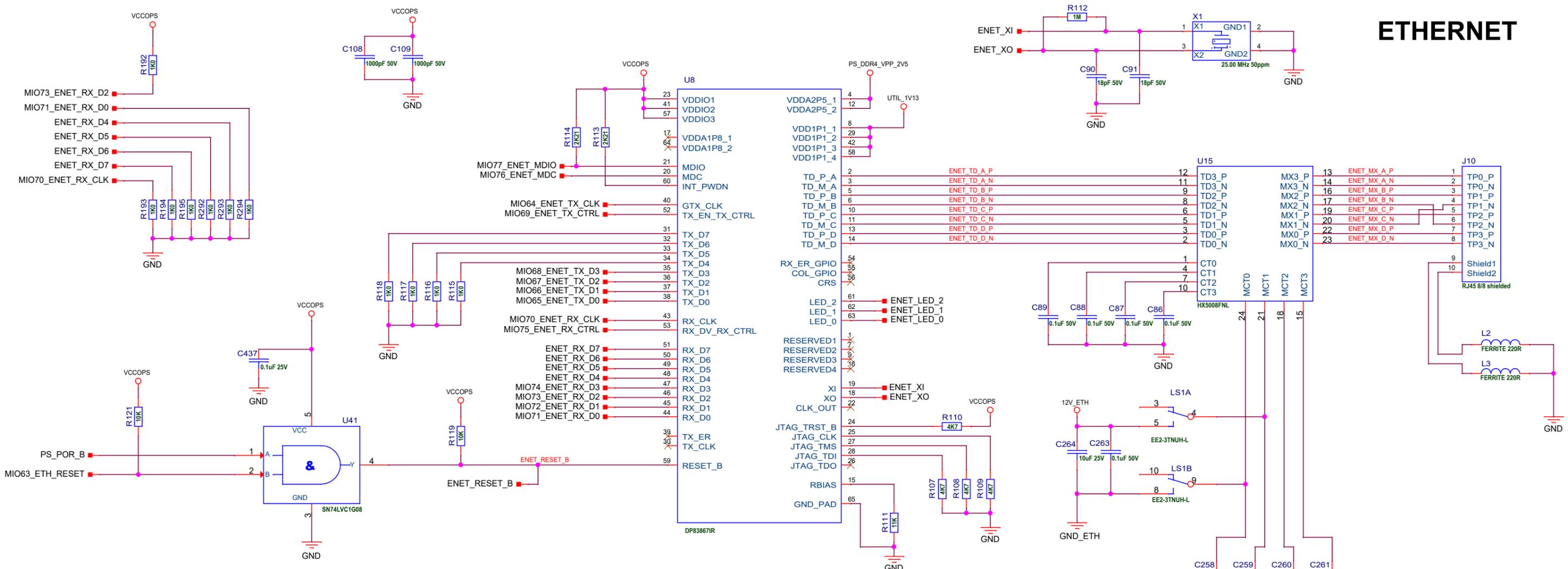
CLK_LDO_1V81 1.81V 2A

CLK_LDO_3V3 3.3V 2A



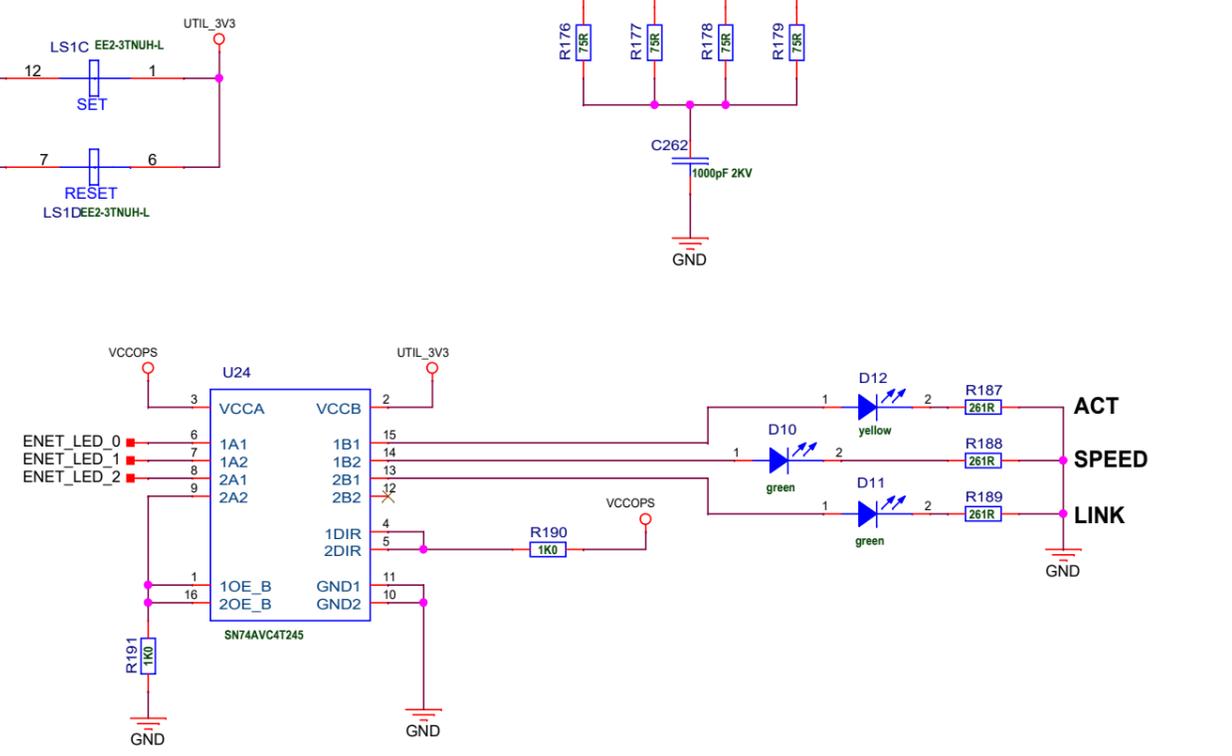
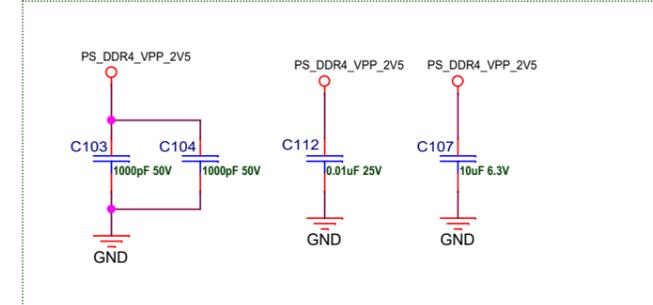
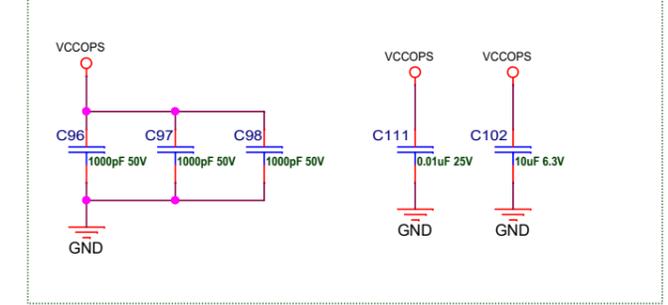


ETHERNET

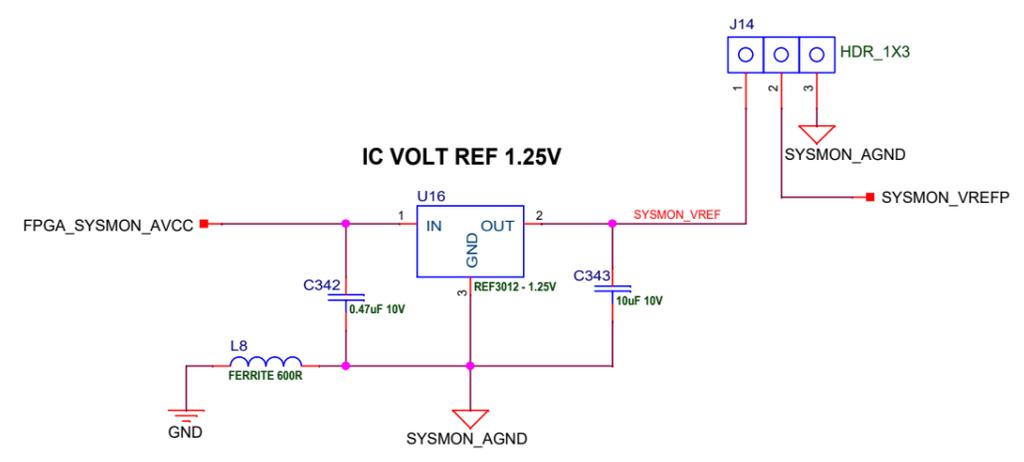
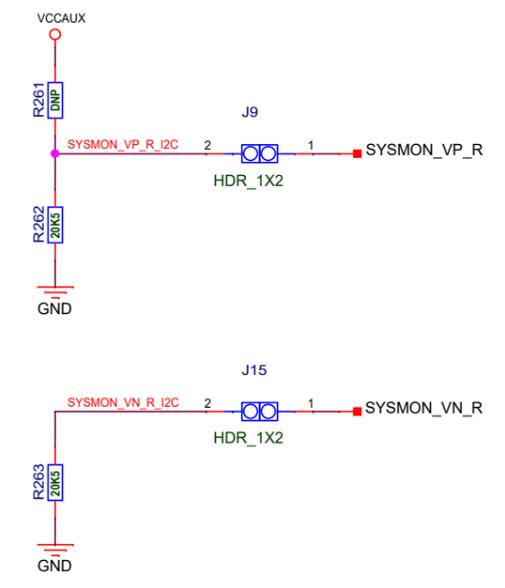
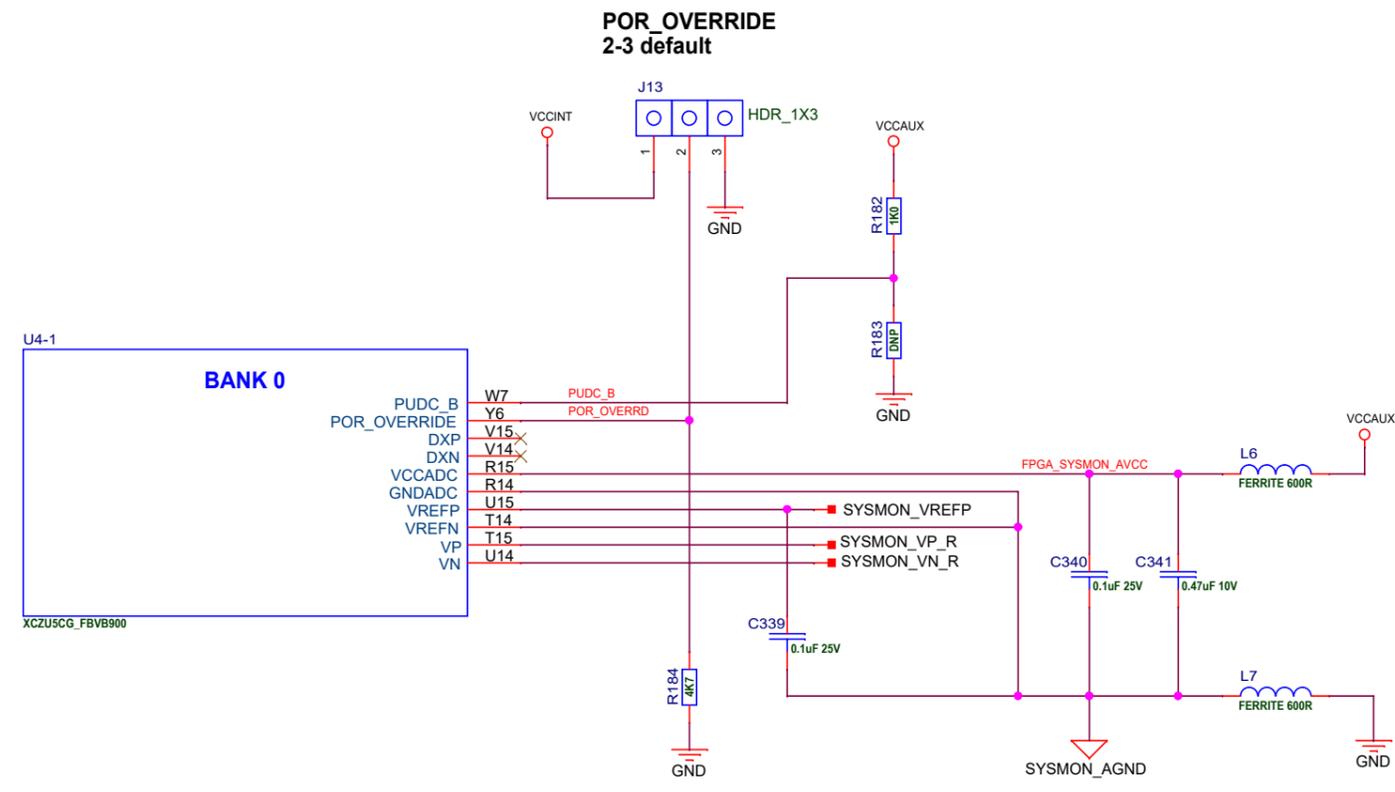


PERIPHERAL DECOUPLING

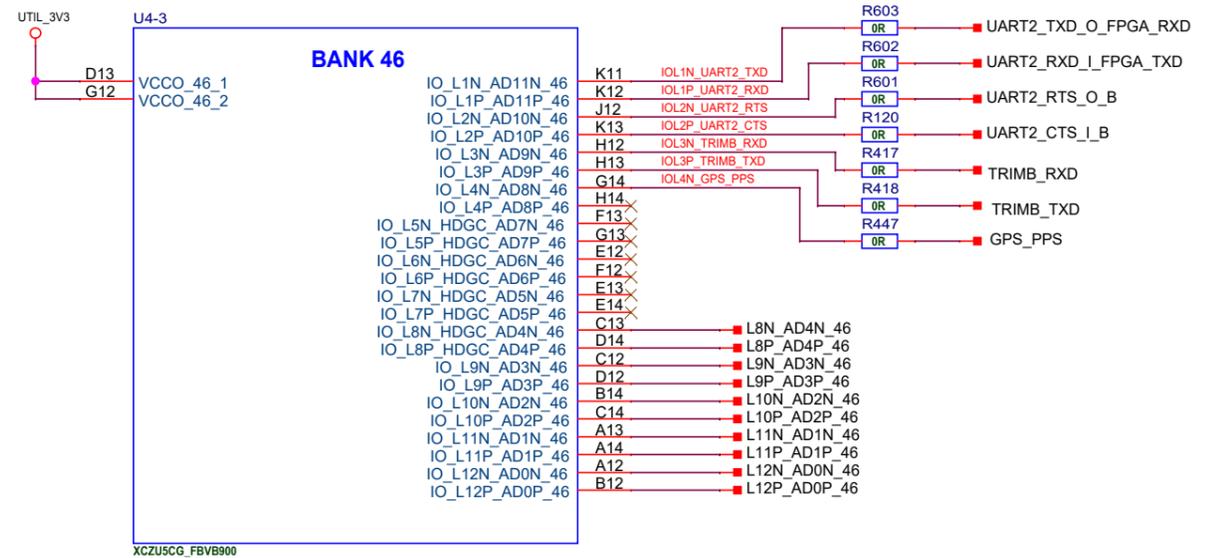
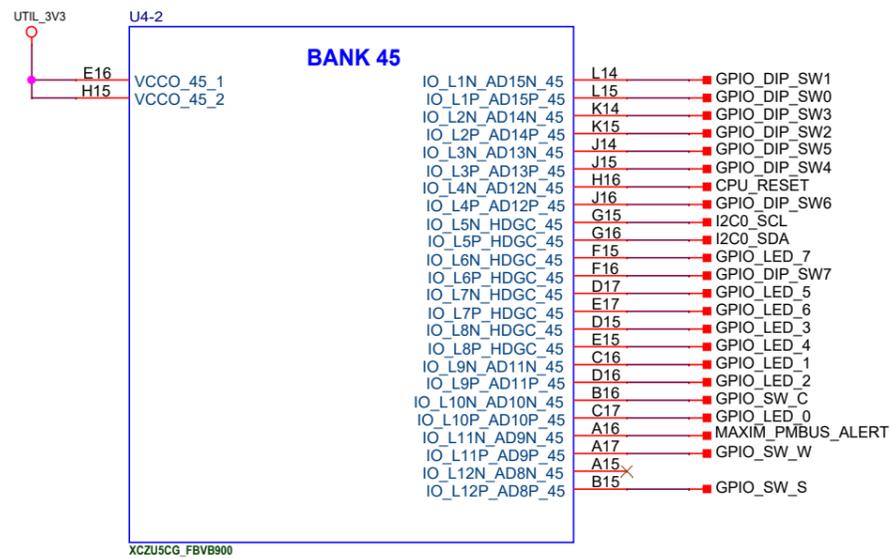
PLACE THESE CAPACITORS AS CLOSE AS POSSIBLE TO THEIR RESPECTIVE PINS



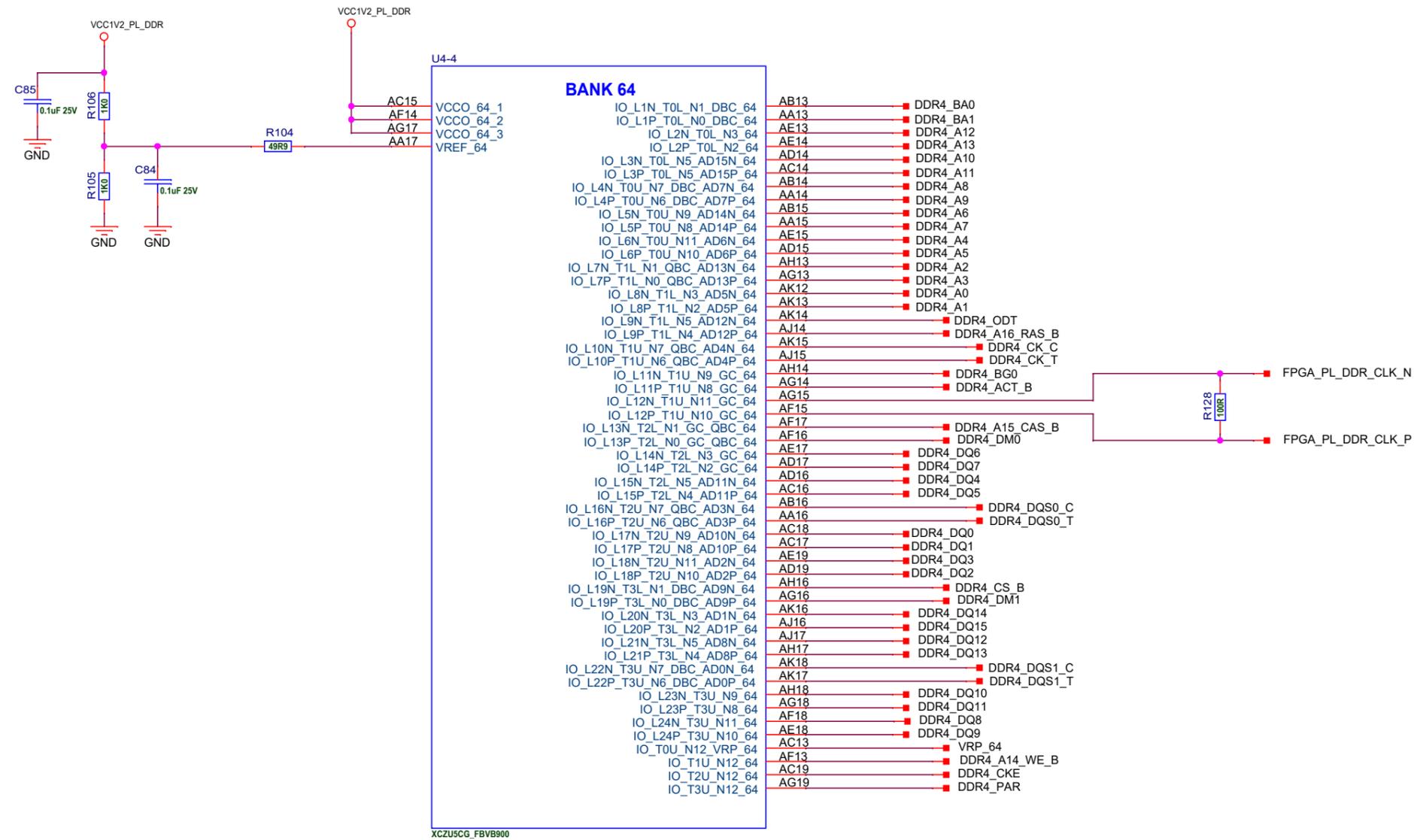
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Title 6078_HEF_GRAND_DIGITIZER2			
Page ETHERNET			
Size A3	Project nr. <Doc>	Drawing by F.Hahn	Rev 1.0
Date: Monday, January 14, 2019	Sheet 10	Print (pcb) nr. 150133	of 59

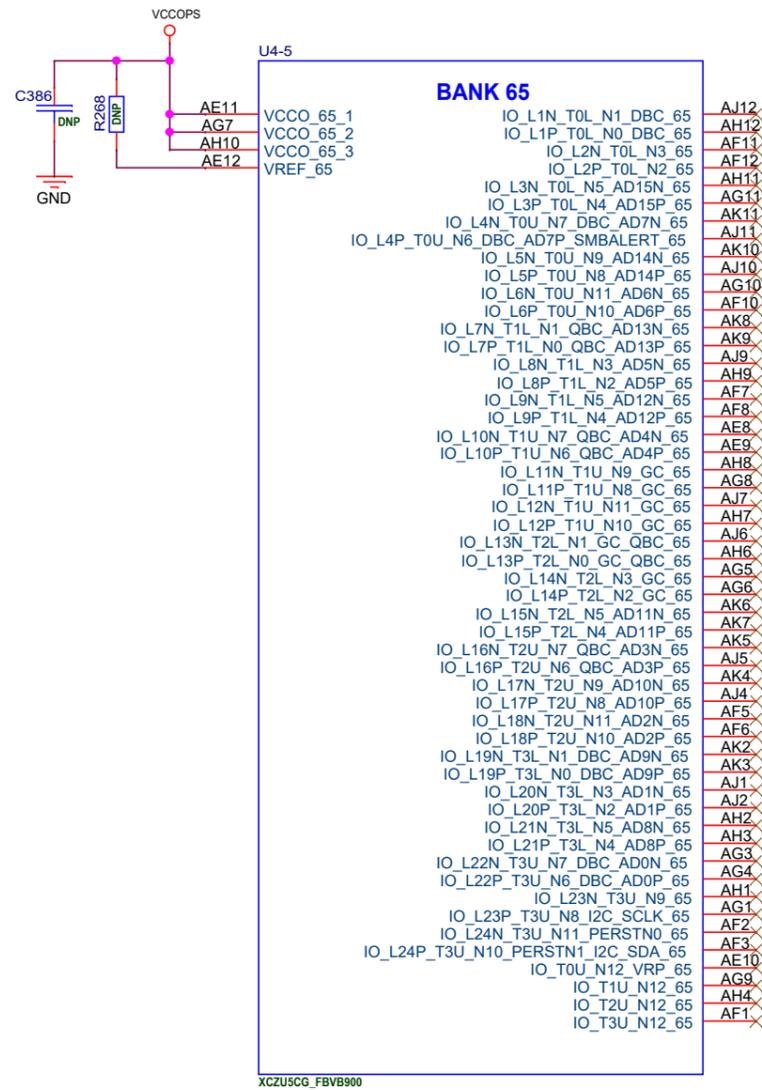


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Page FPGA_BANK_0_SYSMON			
Size A3	Project nr. <Doc>	Drawing by F.Hahn	Rev 1.0
Date: Monday, January 14, 2019	Print (pcb) nr. 150133	Sheet 11	of 59

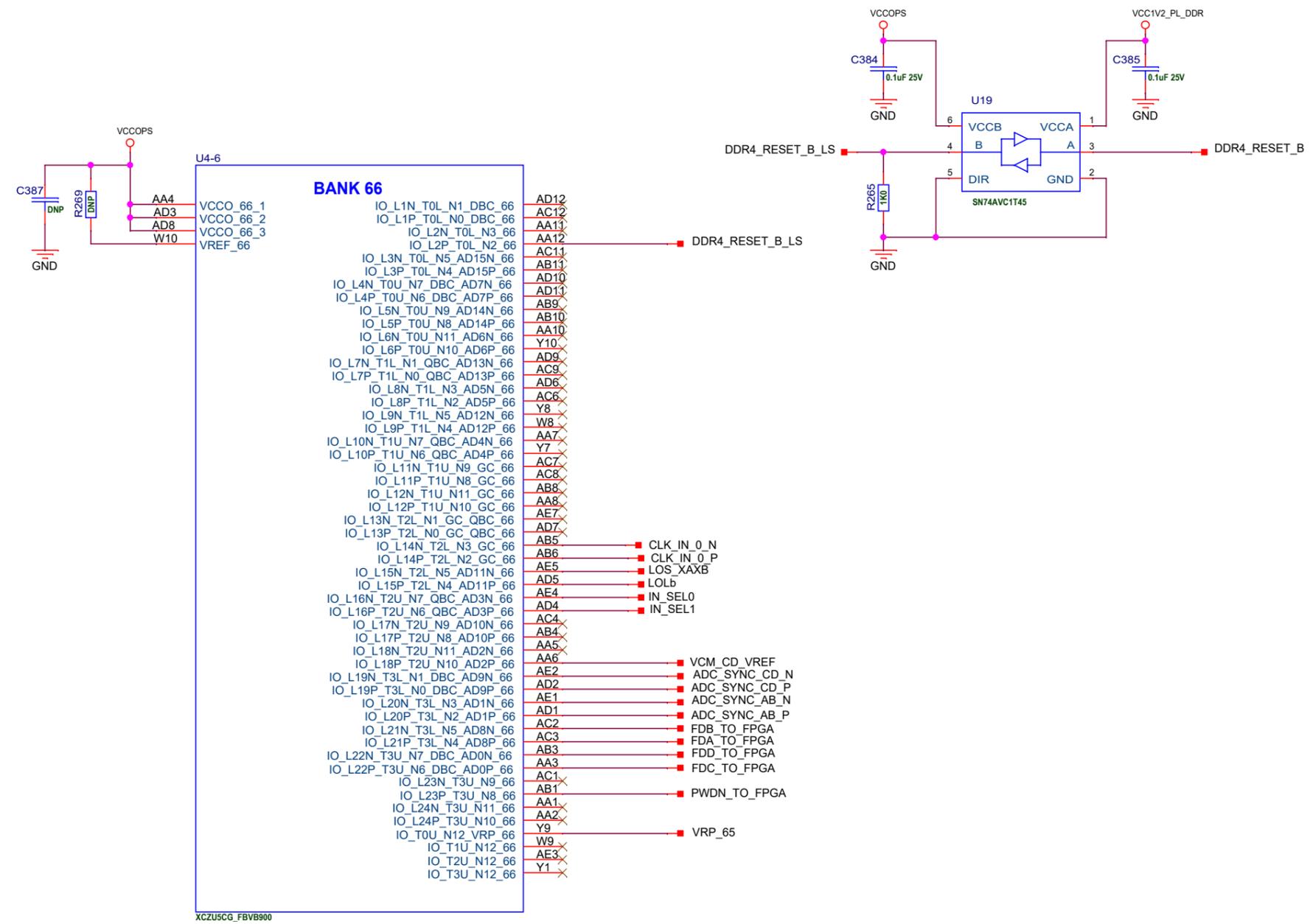


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Date: Monday, January 14, 2019		Print (pcb) nr. 150133	Sheet 12 of 59

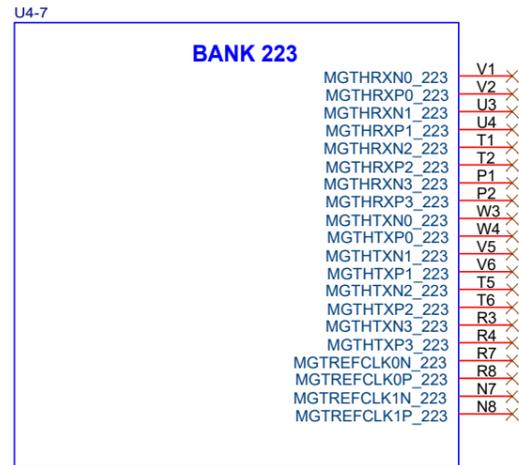




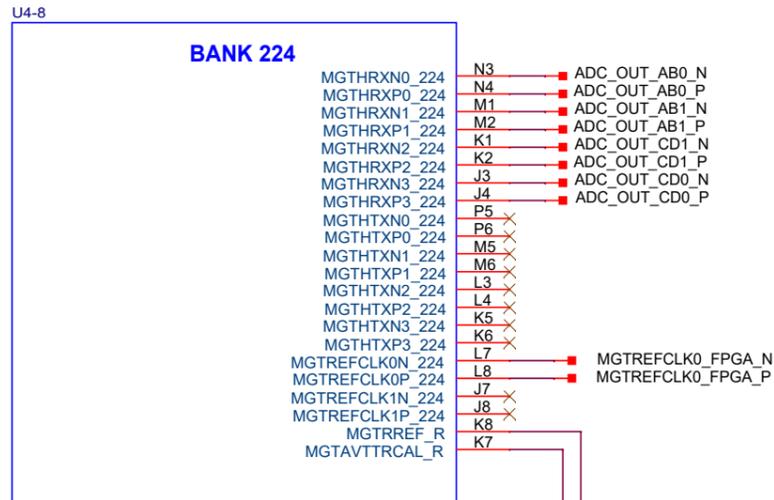
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Page FPGA_BANK_65			
Size A3	Project nr. <Doc>	Drawing by F.Hahn	Rev 1.0
Date: Monday, January 14, 2019	Print (pcb) nr. 150133	Sheet 14 of 59	



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Page FPGA_BANK_66			
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Date: Monday, January 14, 2019	Print (pcb) nr. 150133	Sheet 15 of 59	

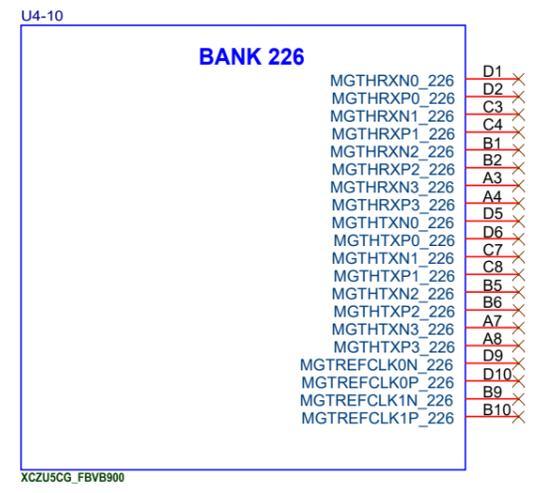
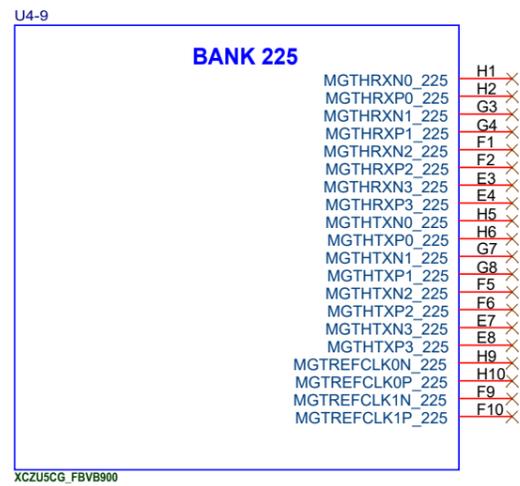


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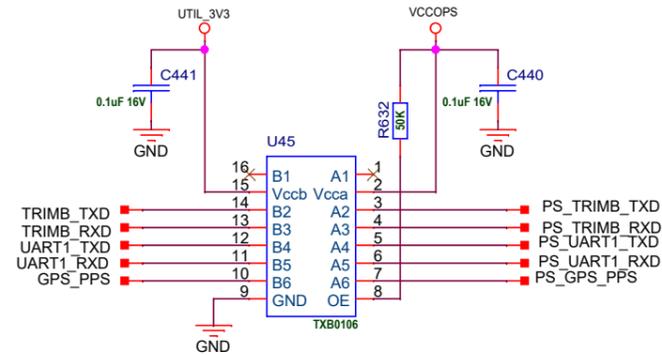
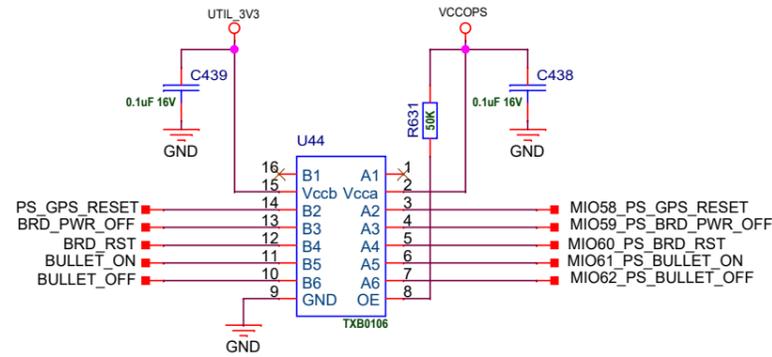
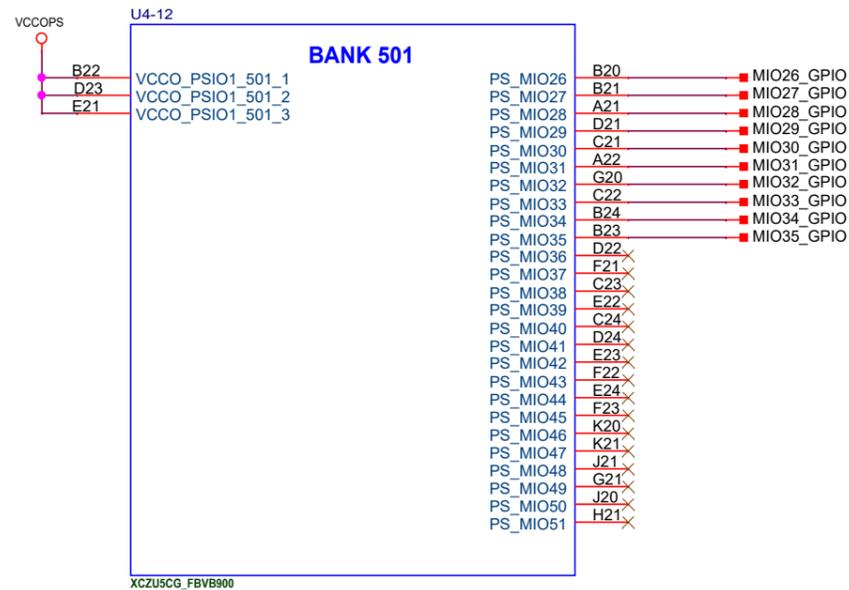
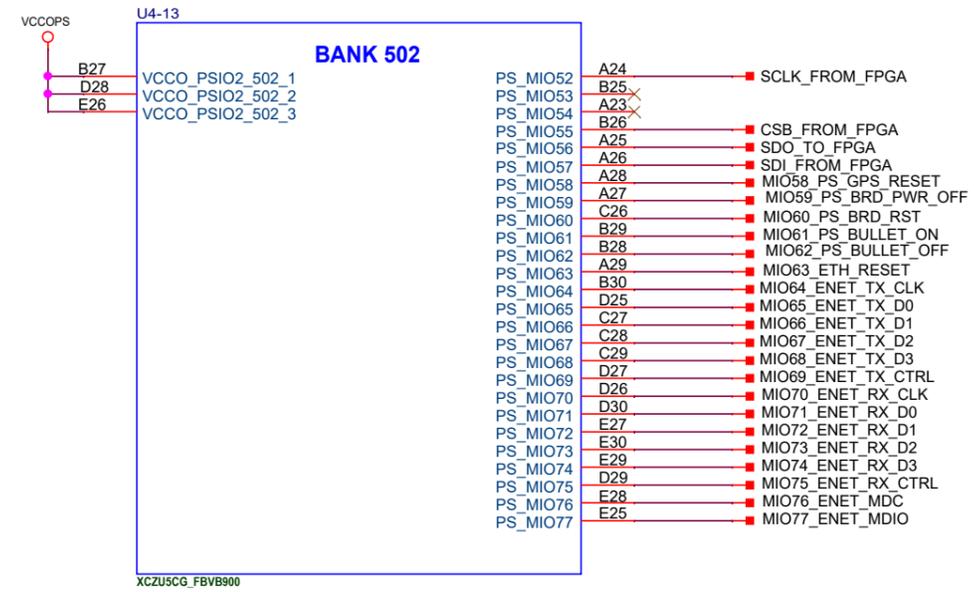
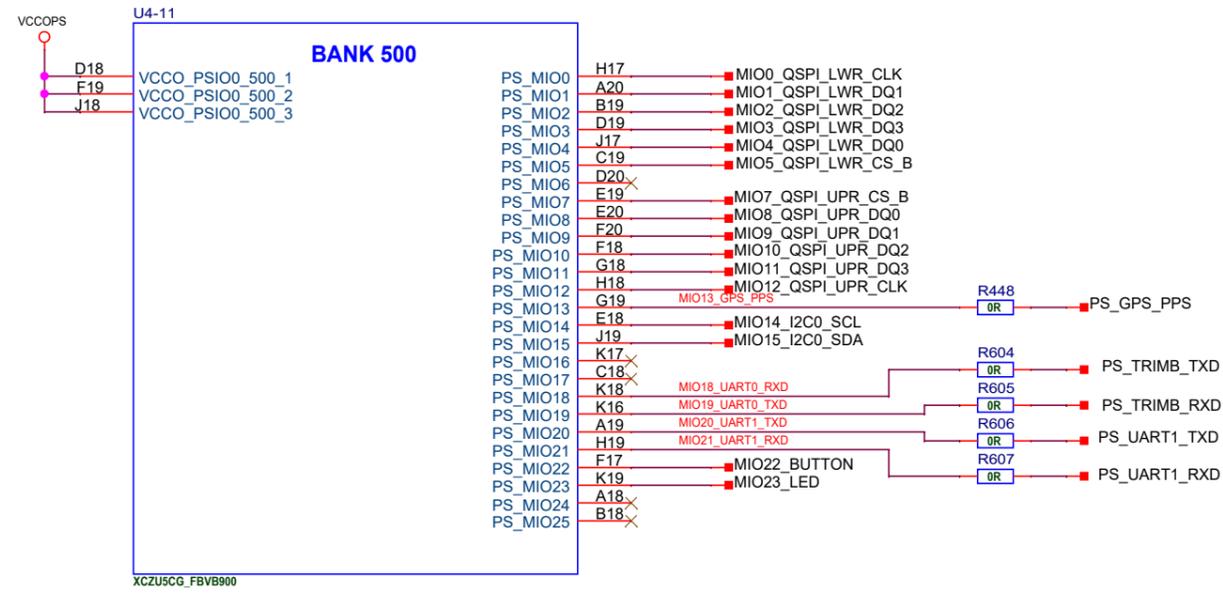


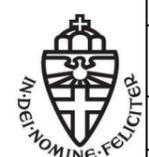
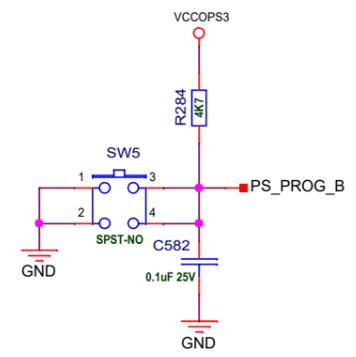
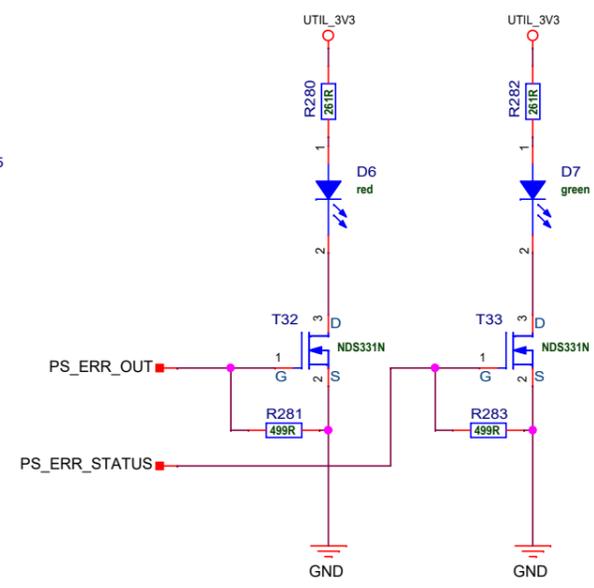
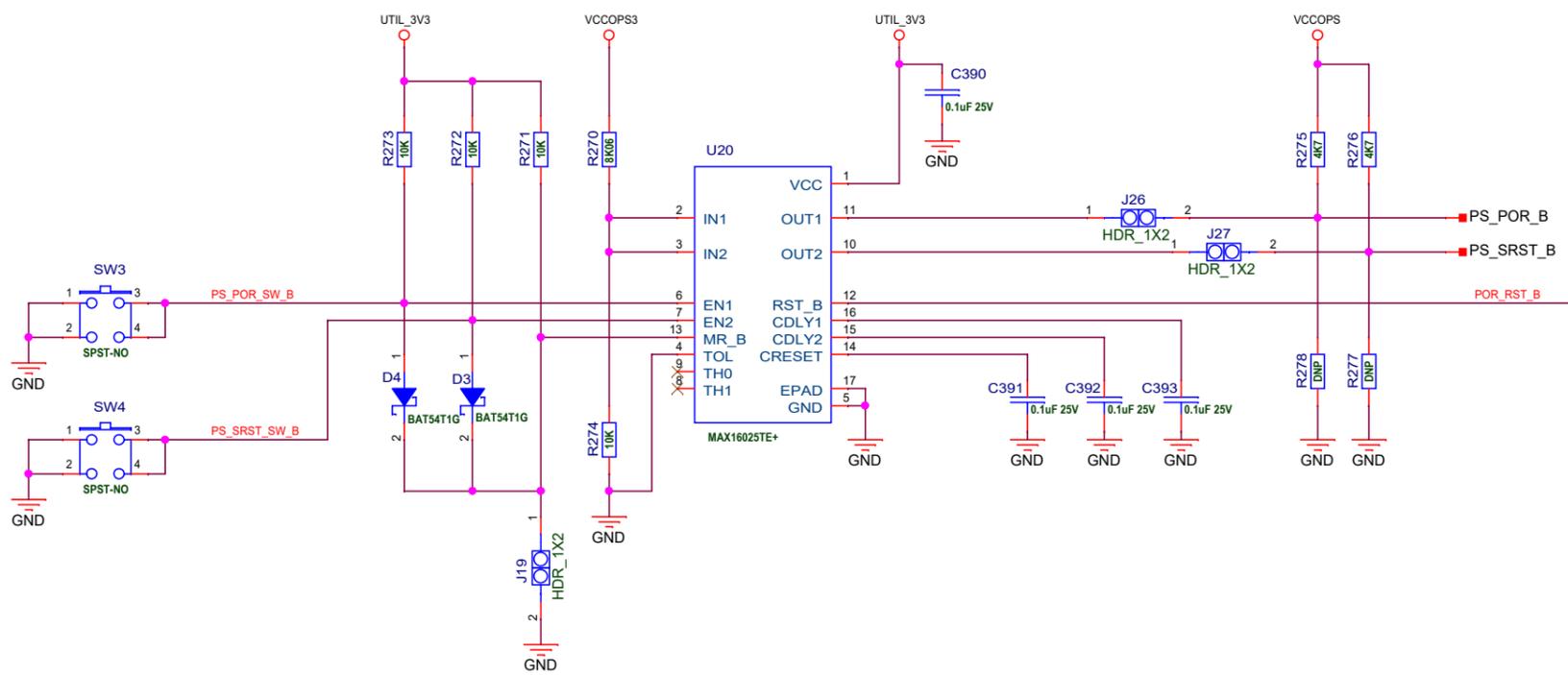
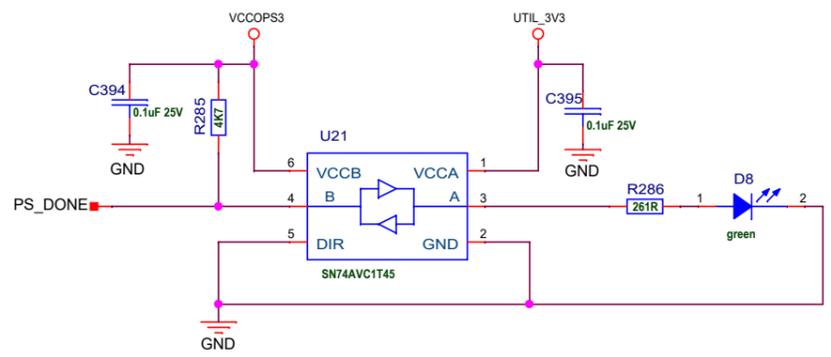
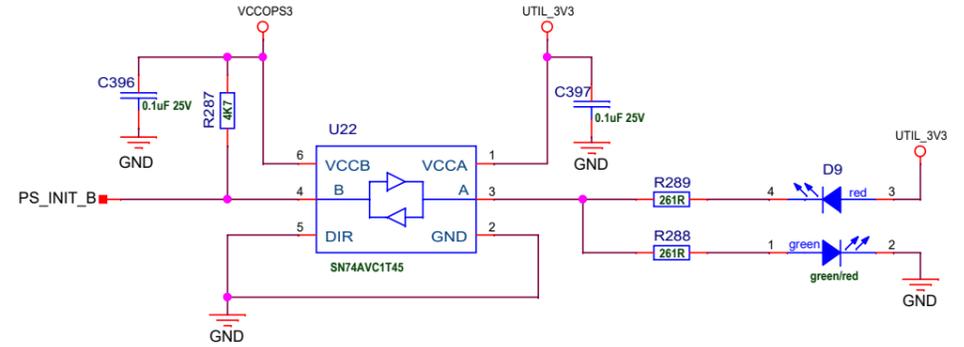
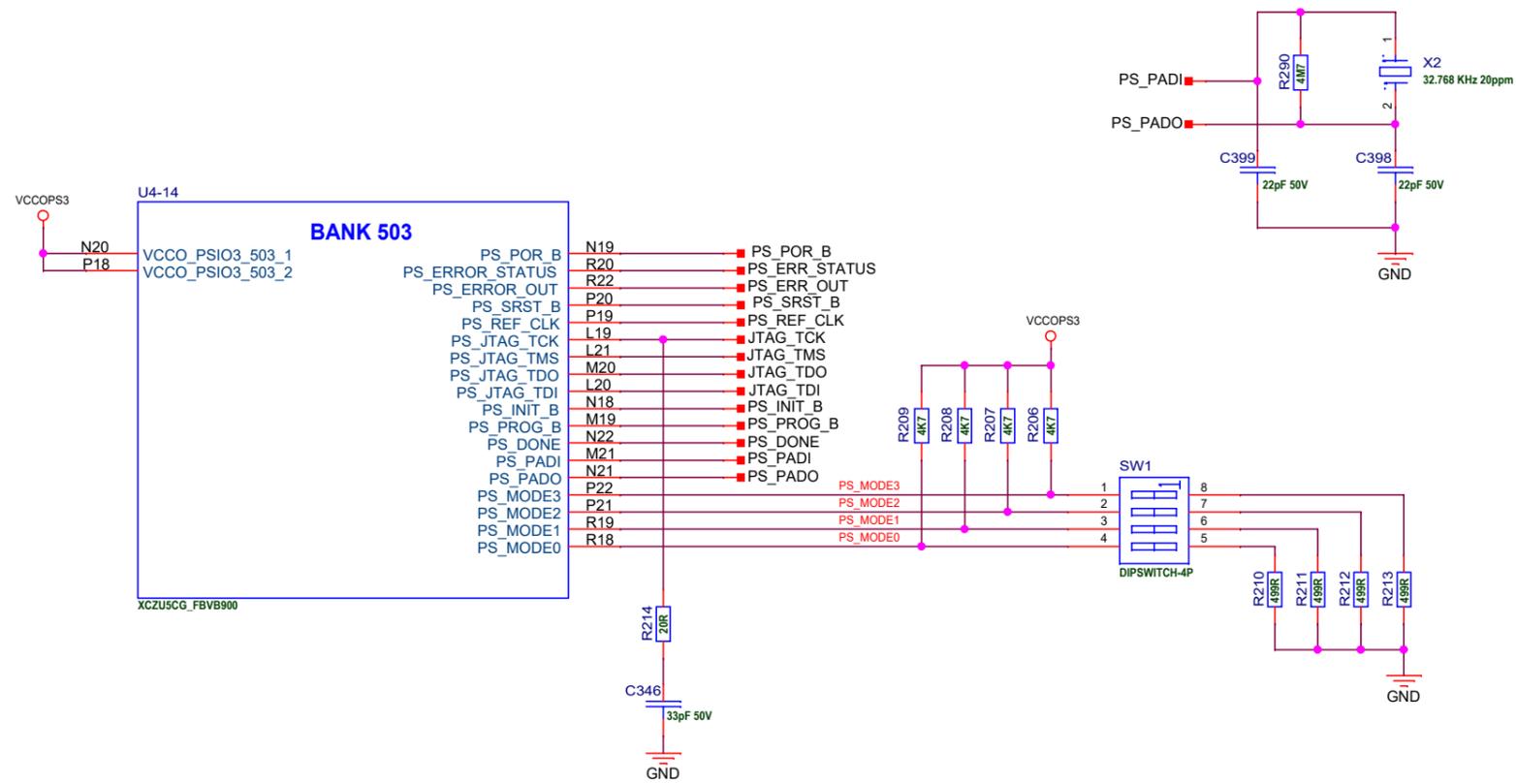
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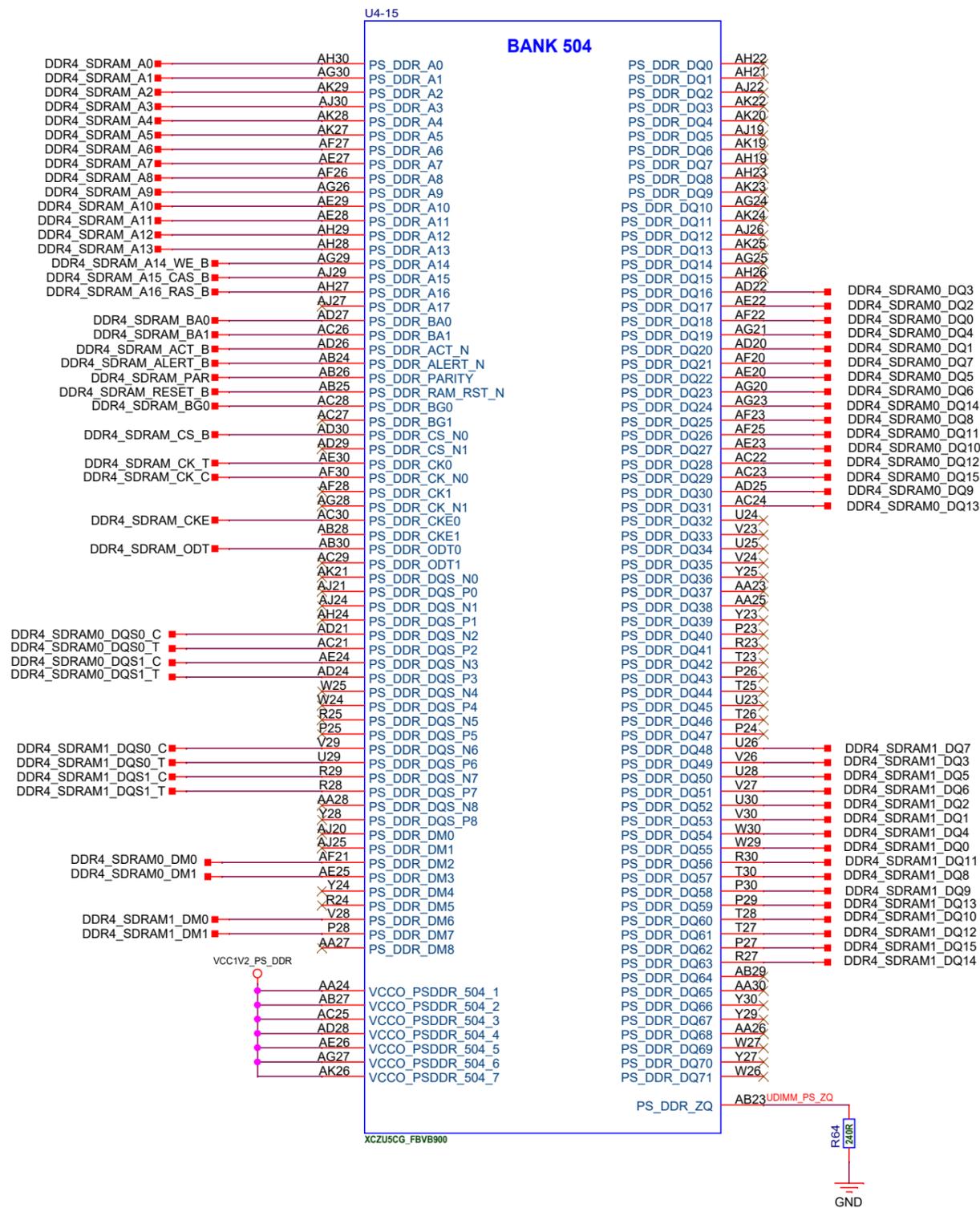


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Page FPGA_BANK_225_226			
Size A3	Project nr. <Doc>	Drawing by F.Hahn	Rev 1.0
Date: Monday, January 14, 2019		Print (pcb) nr. 150133	Sheet 17 of 59





Schematic nr. DIGITIZER_V1.3		Design by R.Habraken & D.Szalas	
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Page FPGA_BANK_503			
Size A3	Project nr. <Doc>	Drawing by F.Hahn	Rev 1.0
Date: Monday, January 14, 2019		Print (pcb) nr. 150133	Sheet 19 of 59



Schematic nr. DIGITIZER_V1.3		Design by R.Habraken & D.Szalas	
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Page FPGA_BANK_504			
Size A3	Project nr. <Doc>	Drawing by F.Hahn	Rev 1.0
Date: Monday, January 14, 2019	Print (pcb) nr. 150133	Sheet 20 of 59	

U4-16

BANK 505

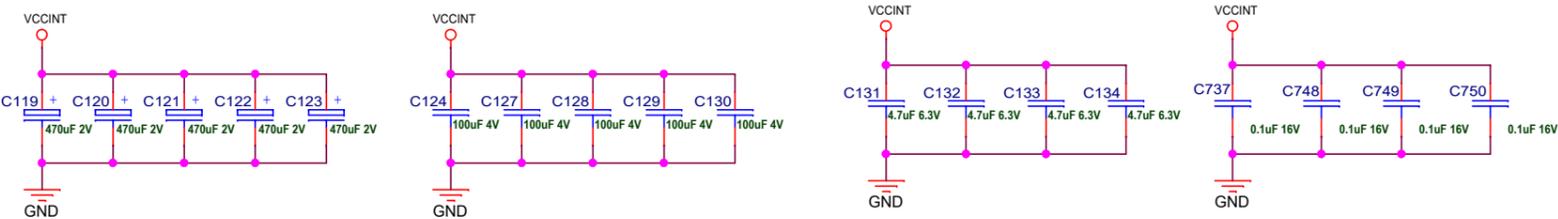
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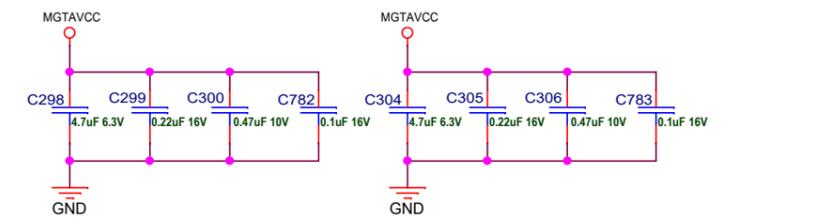


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Page FPGA_BANK_505			
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Date: Monday, January 14, 2019	Sheet 21	of 59	

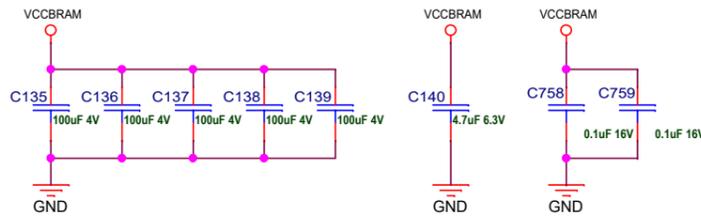
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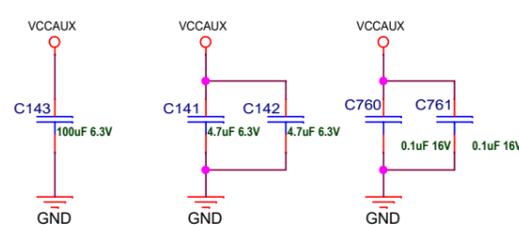
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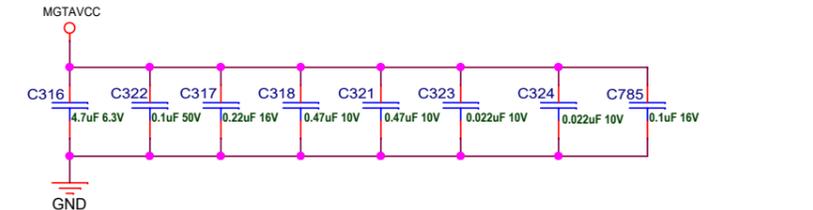
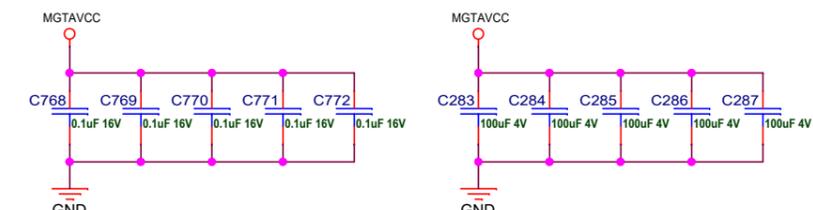
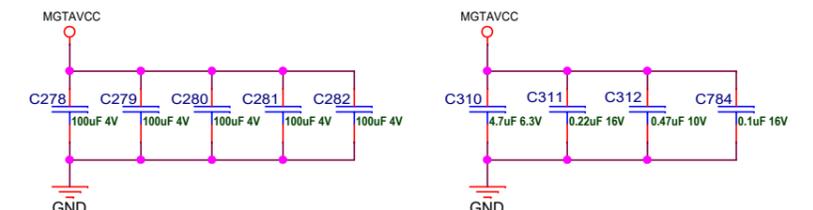
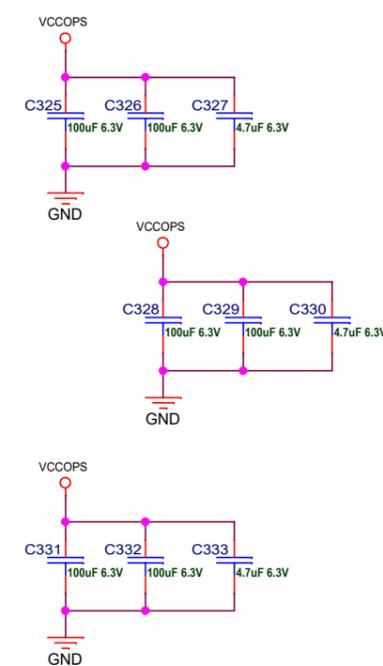
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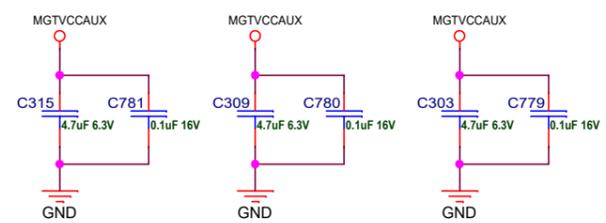
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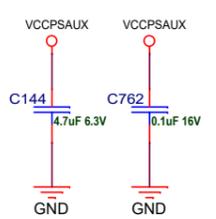
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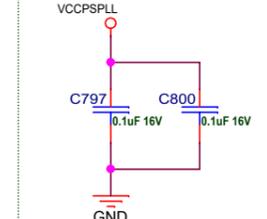
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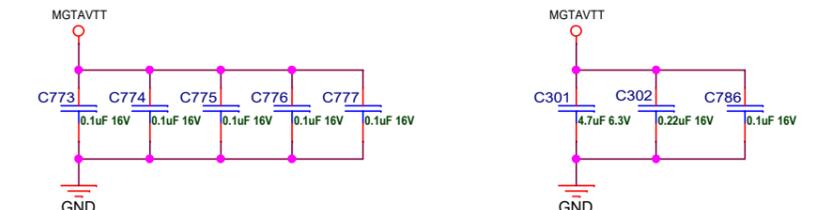
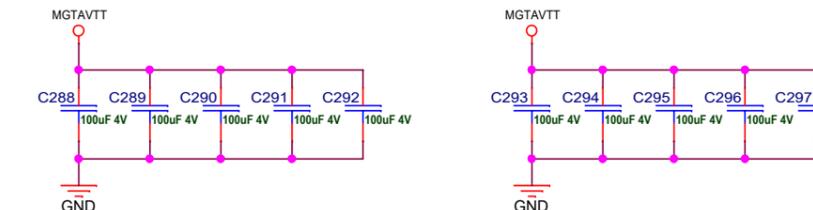
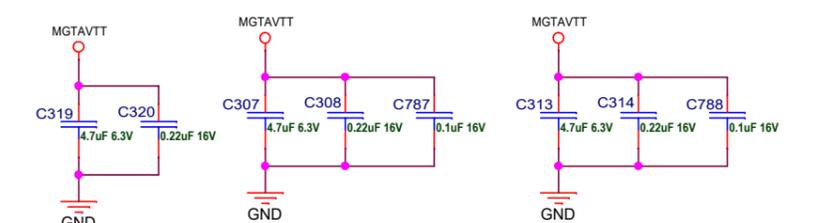
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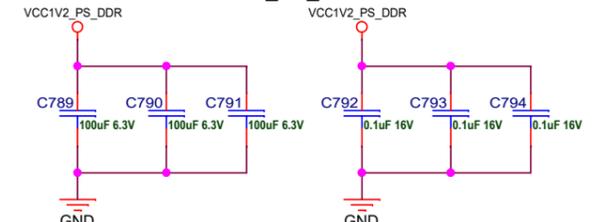
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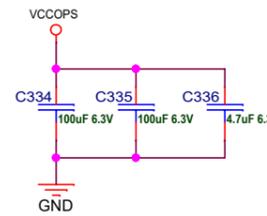
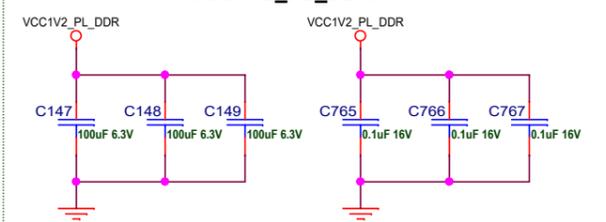
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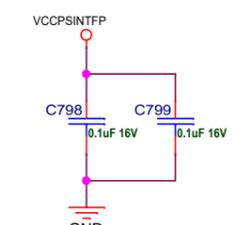
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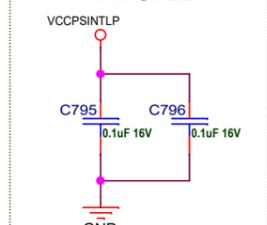
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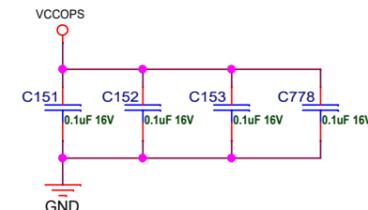
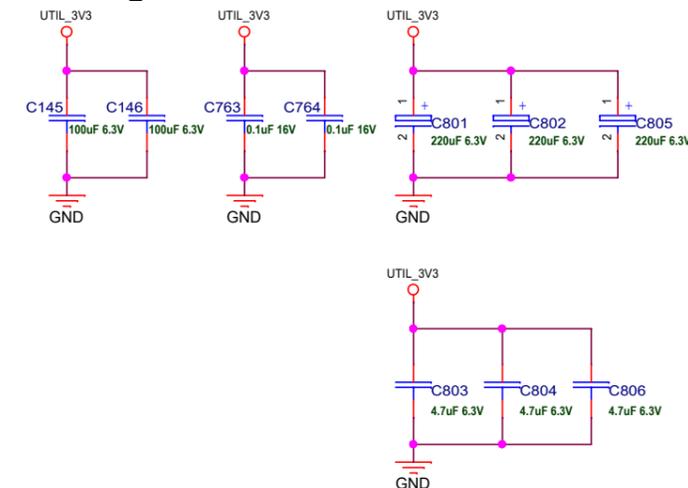
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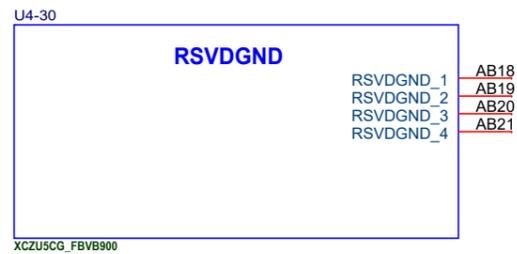
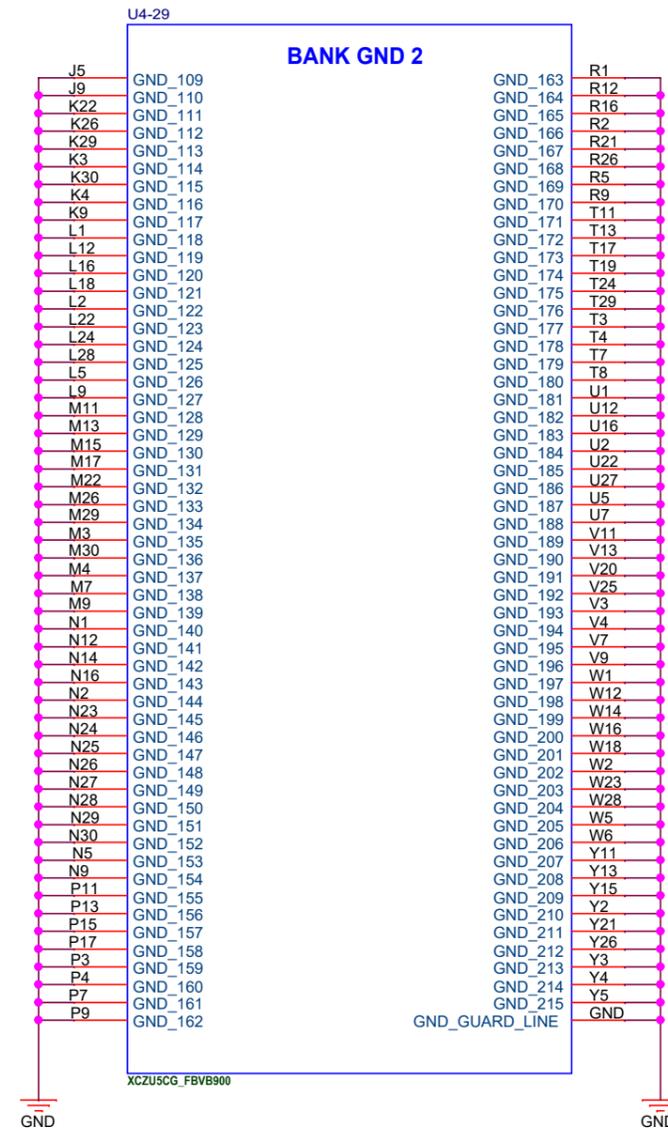
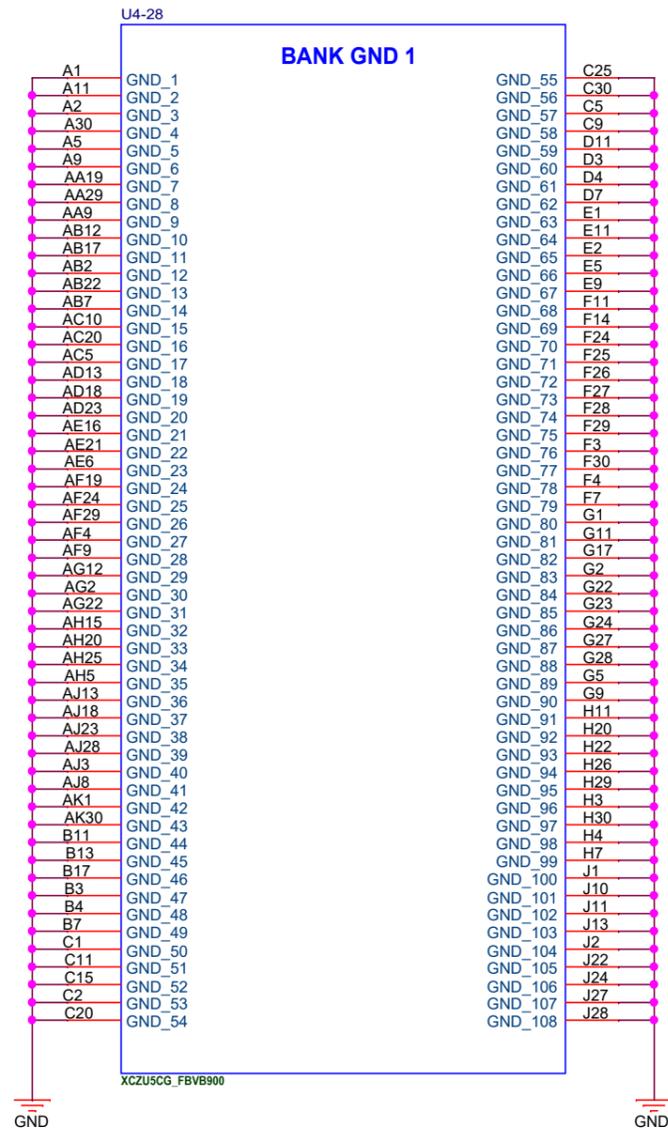


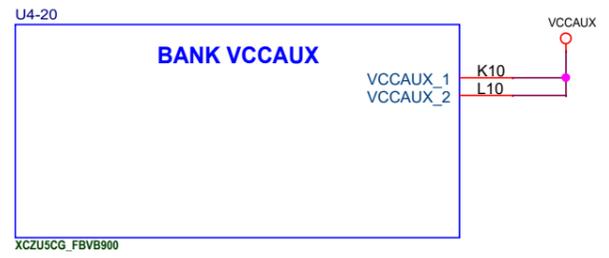
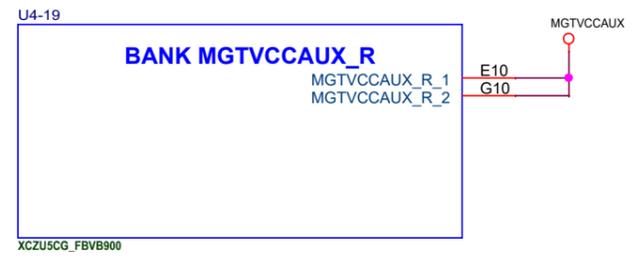
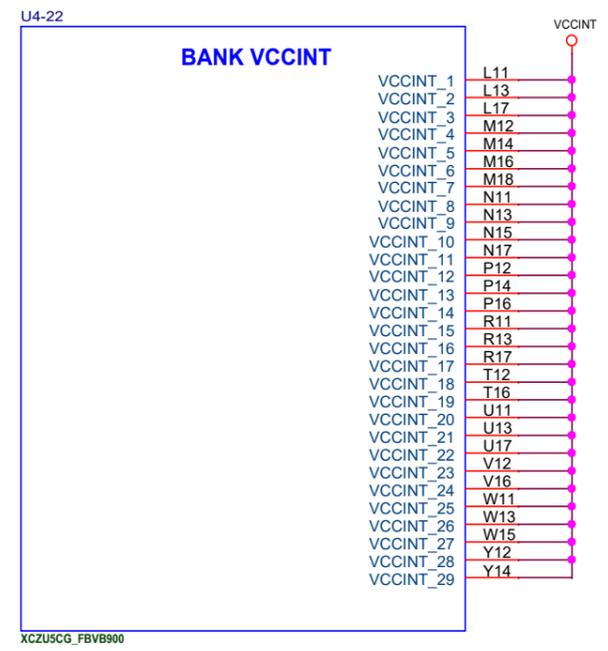
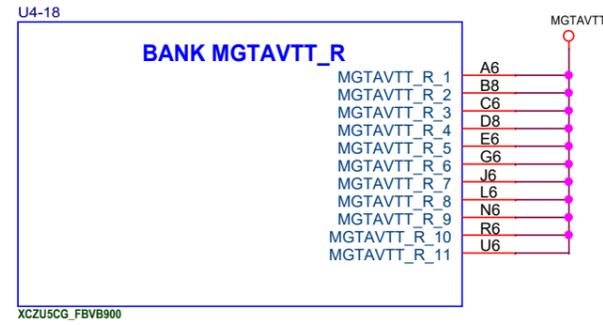
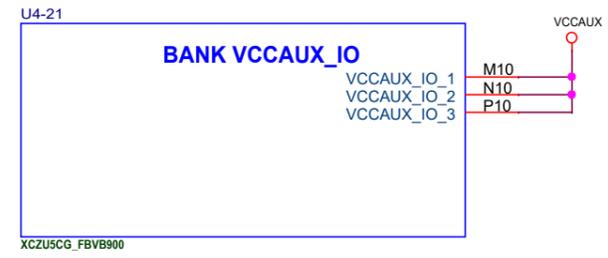
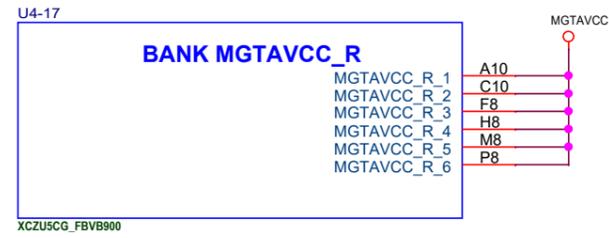
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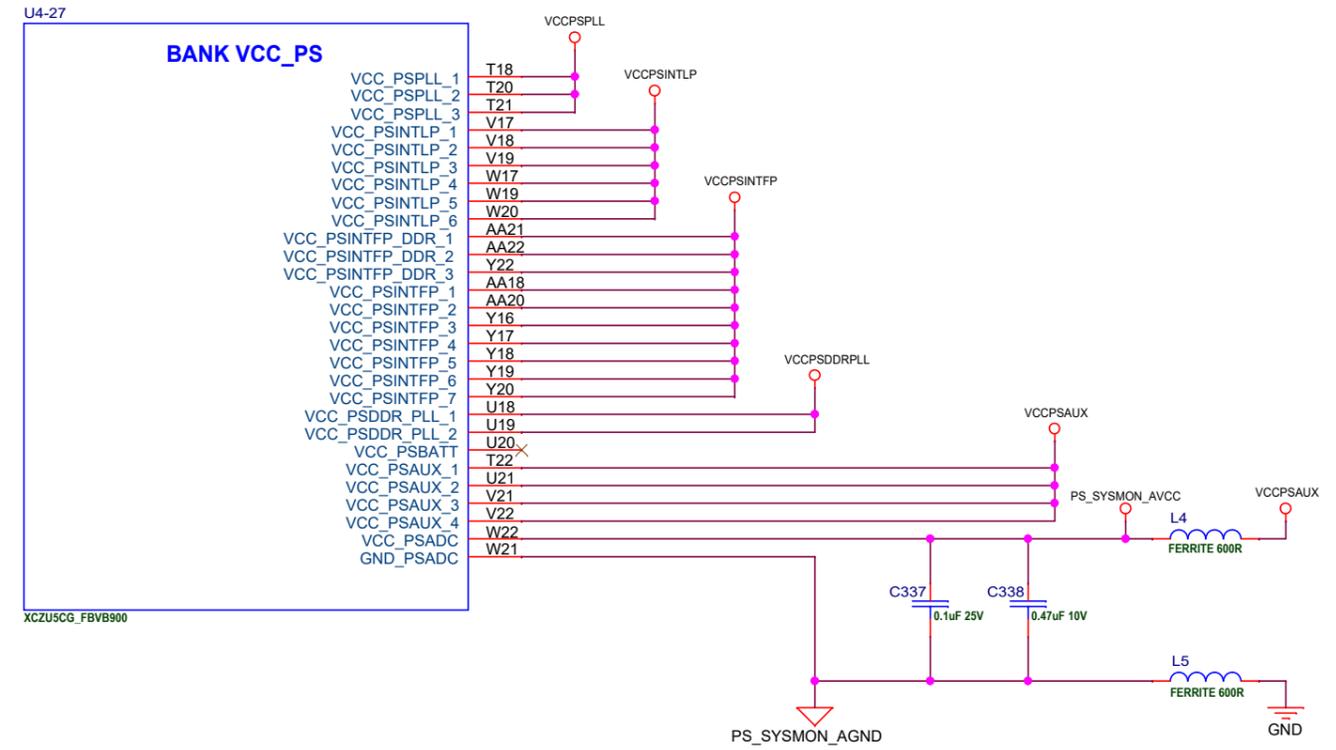
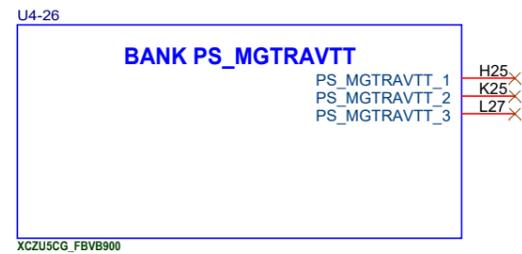
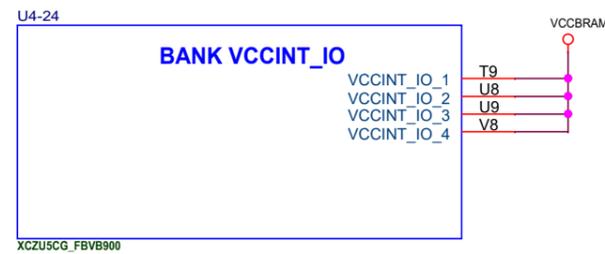
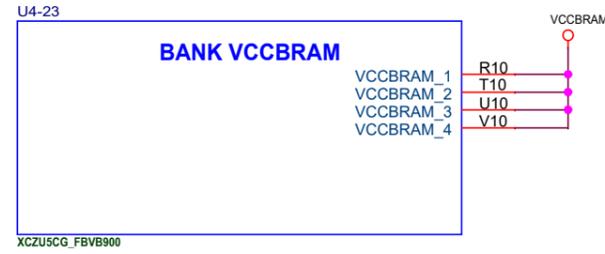
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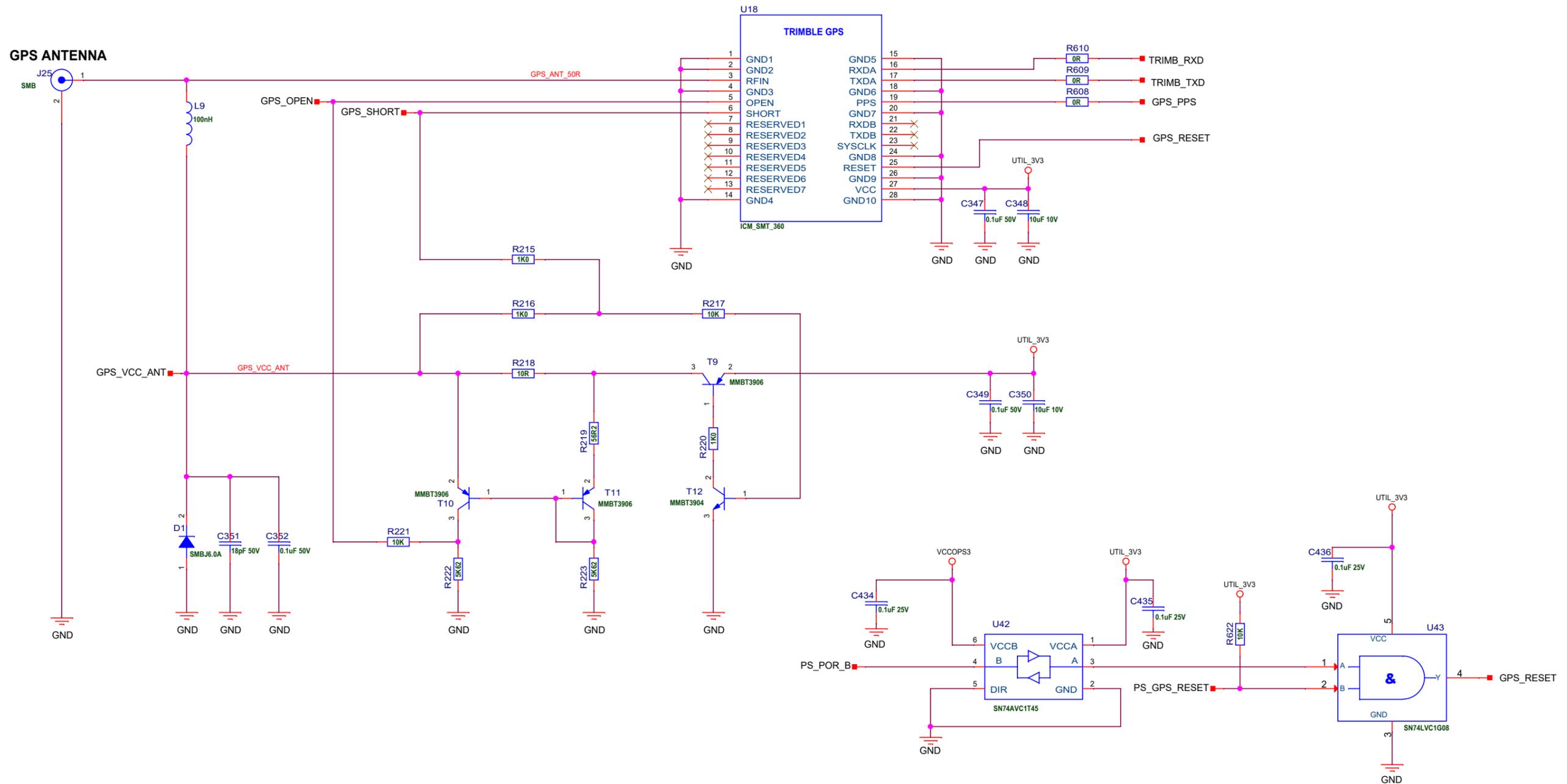


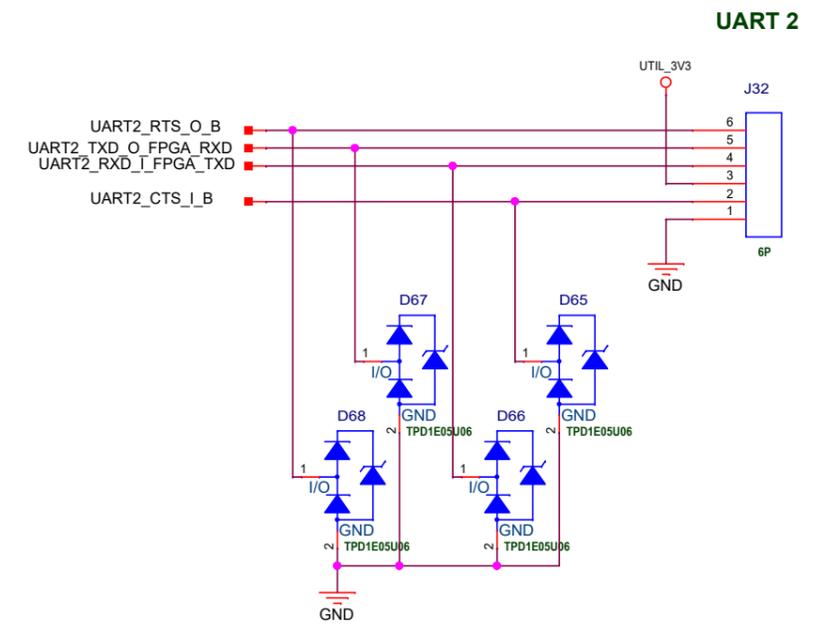
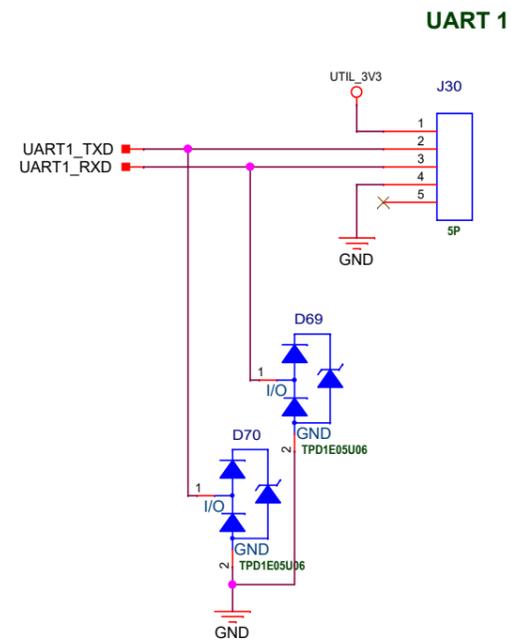
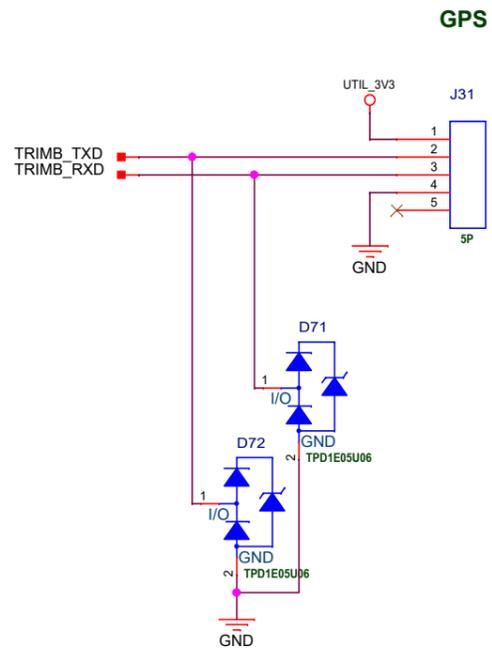


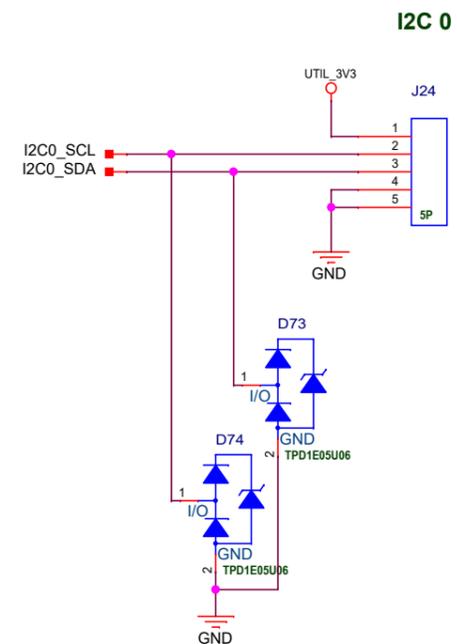
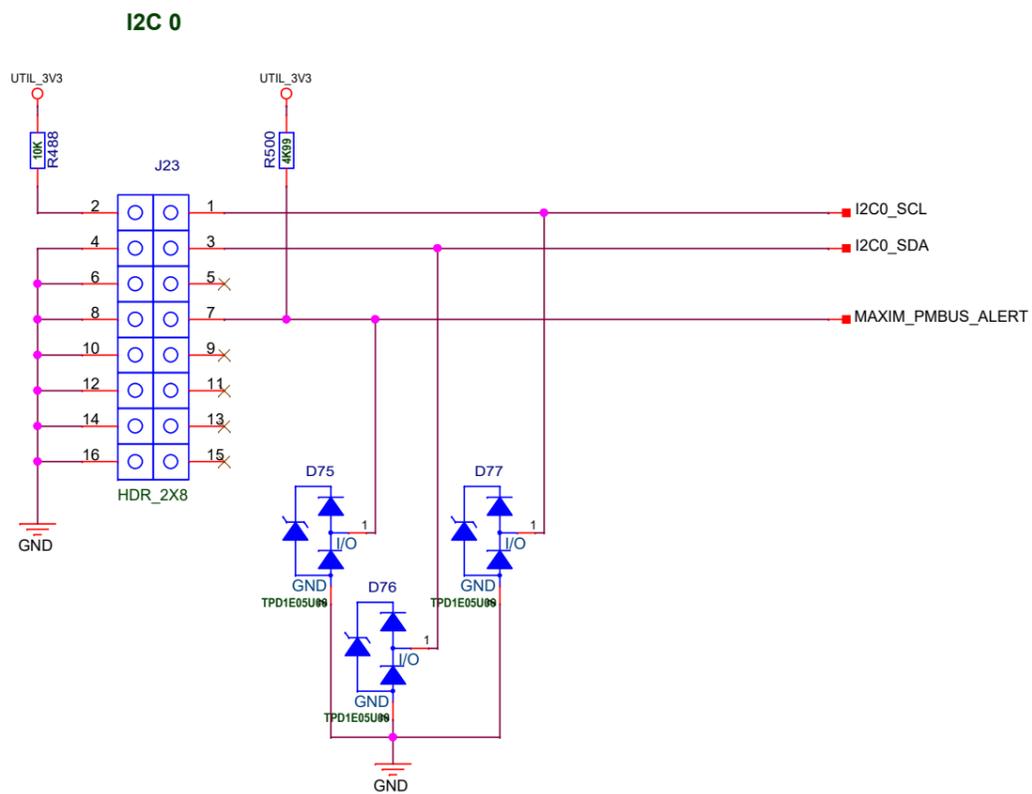
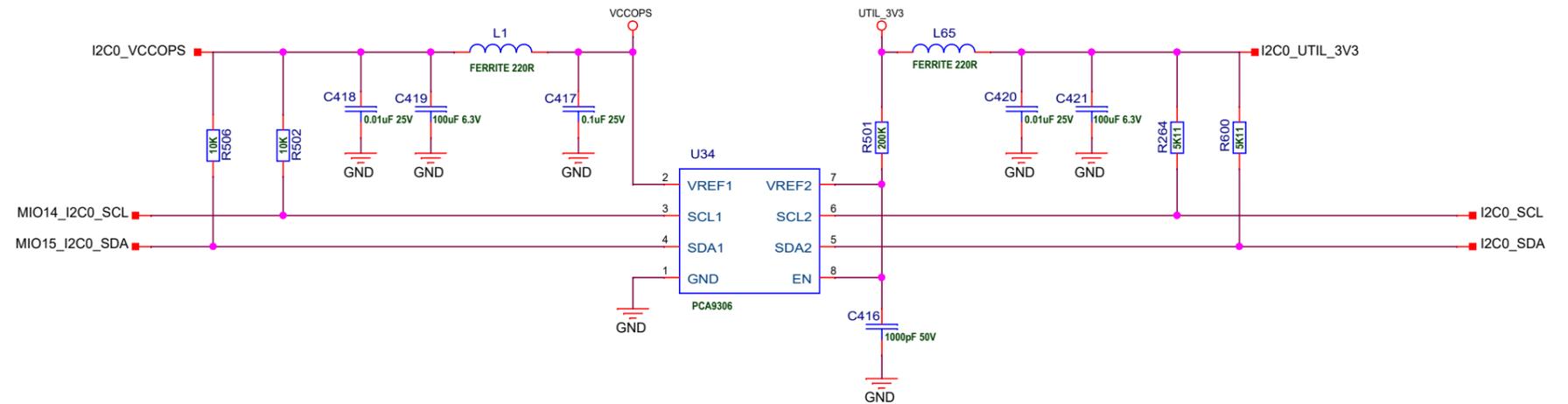


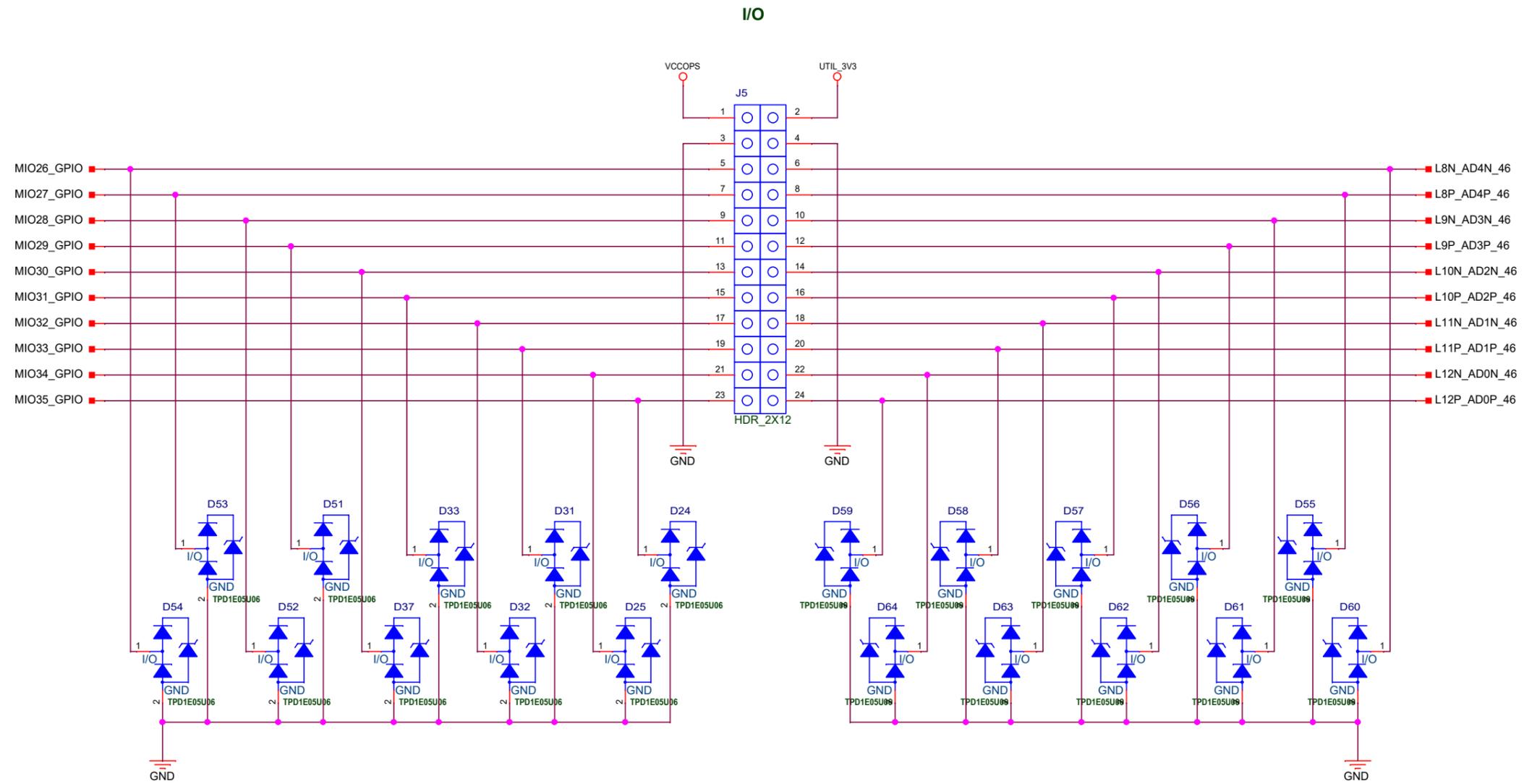
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Title 6078_HEF_GRAND_DIGITIZER2			
Page FPGA_POWER_1			
Size A3	Project nr. <Doc>	Drawing by F.Hahn	Rev 1.0
Date: Monday, January 14, 2019	Print (pcb) nr. 150133	Sheet 24 of 59	

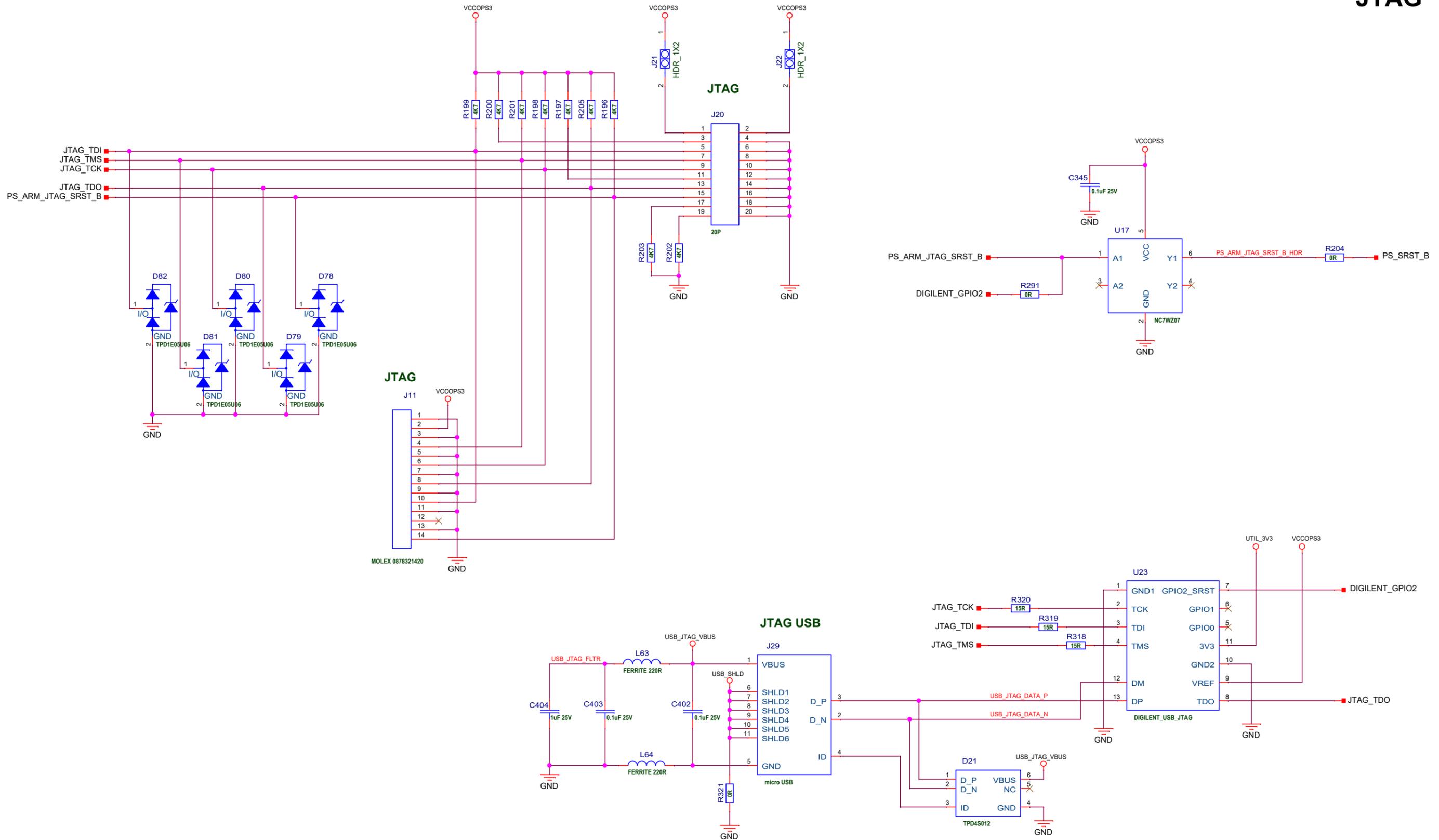




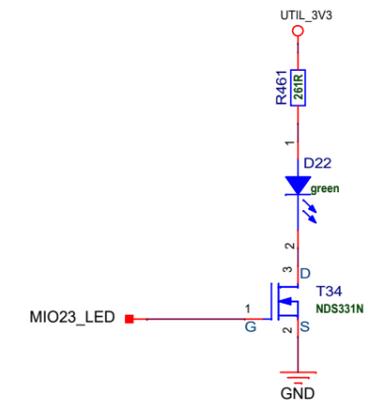
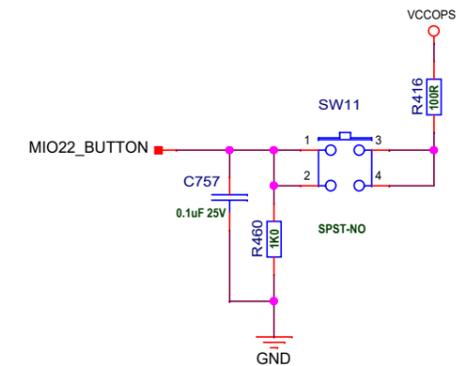
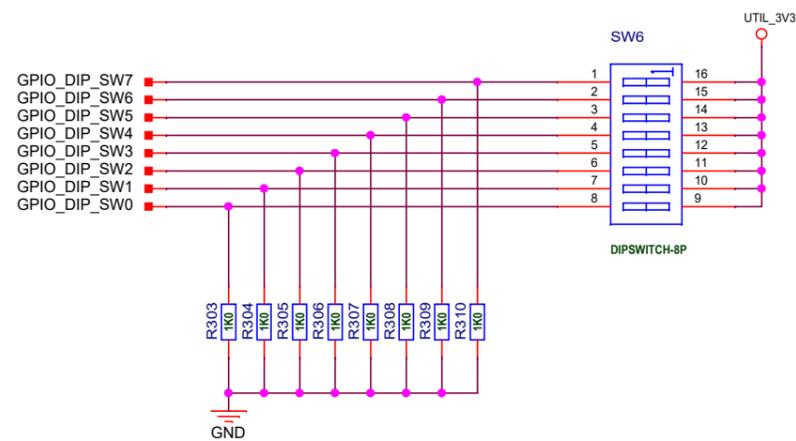
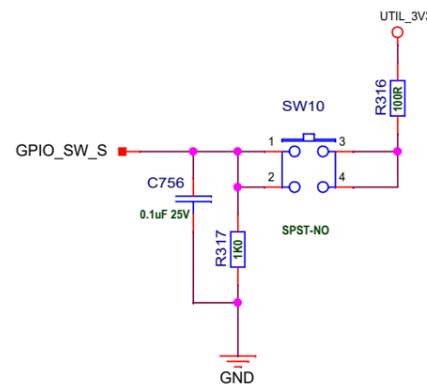
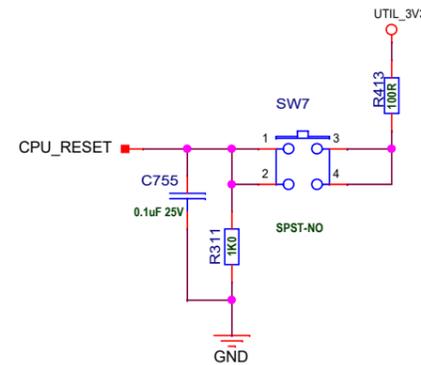
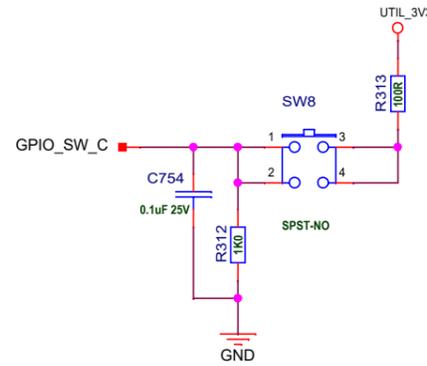
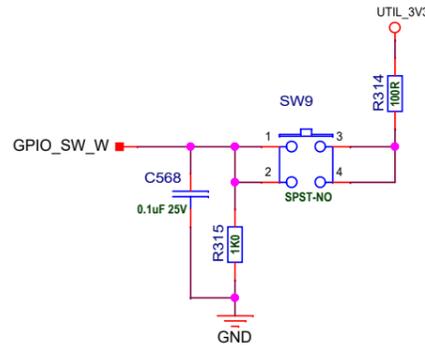
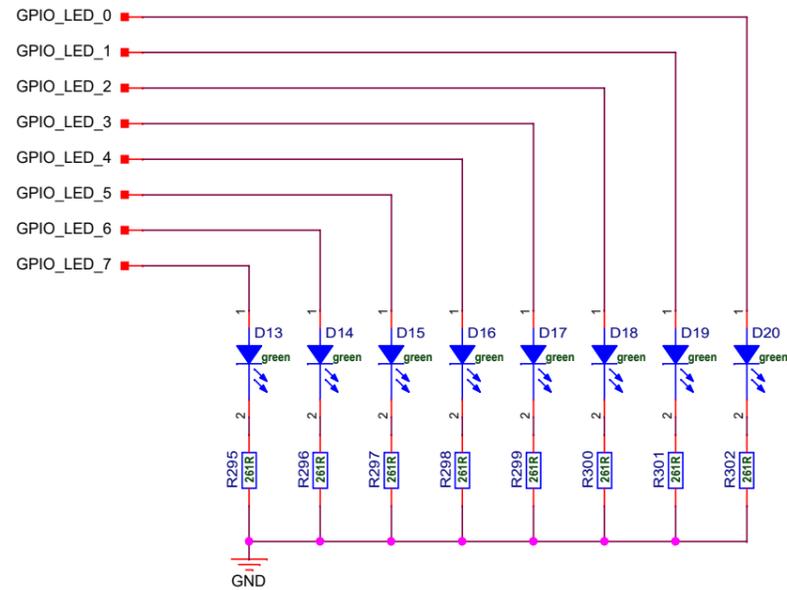


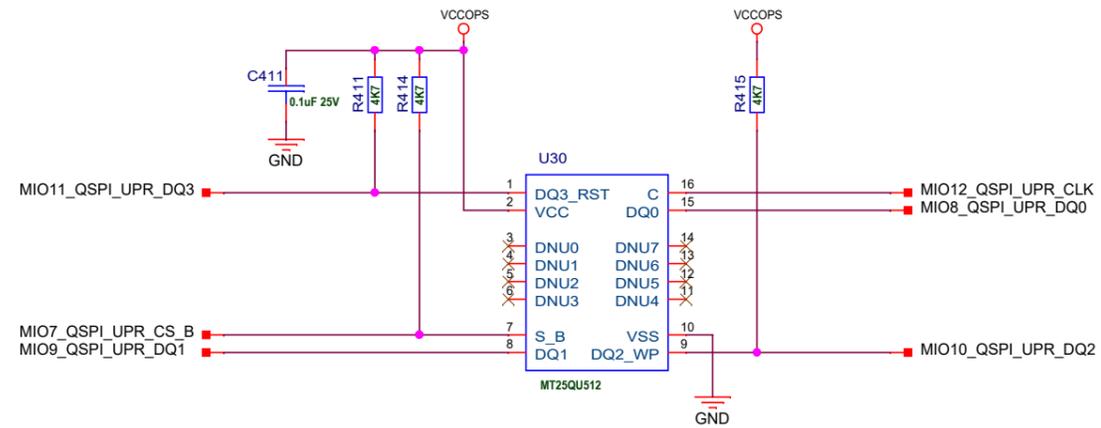
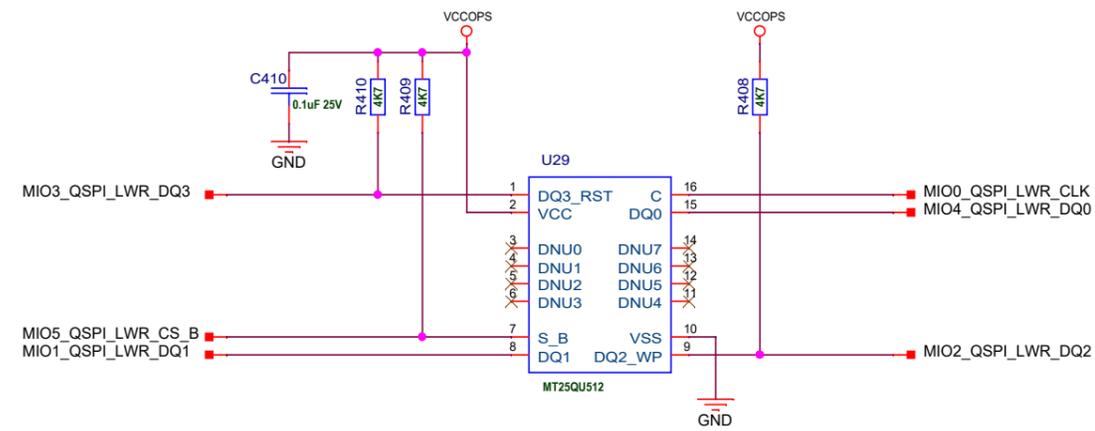




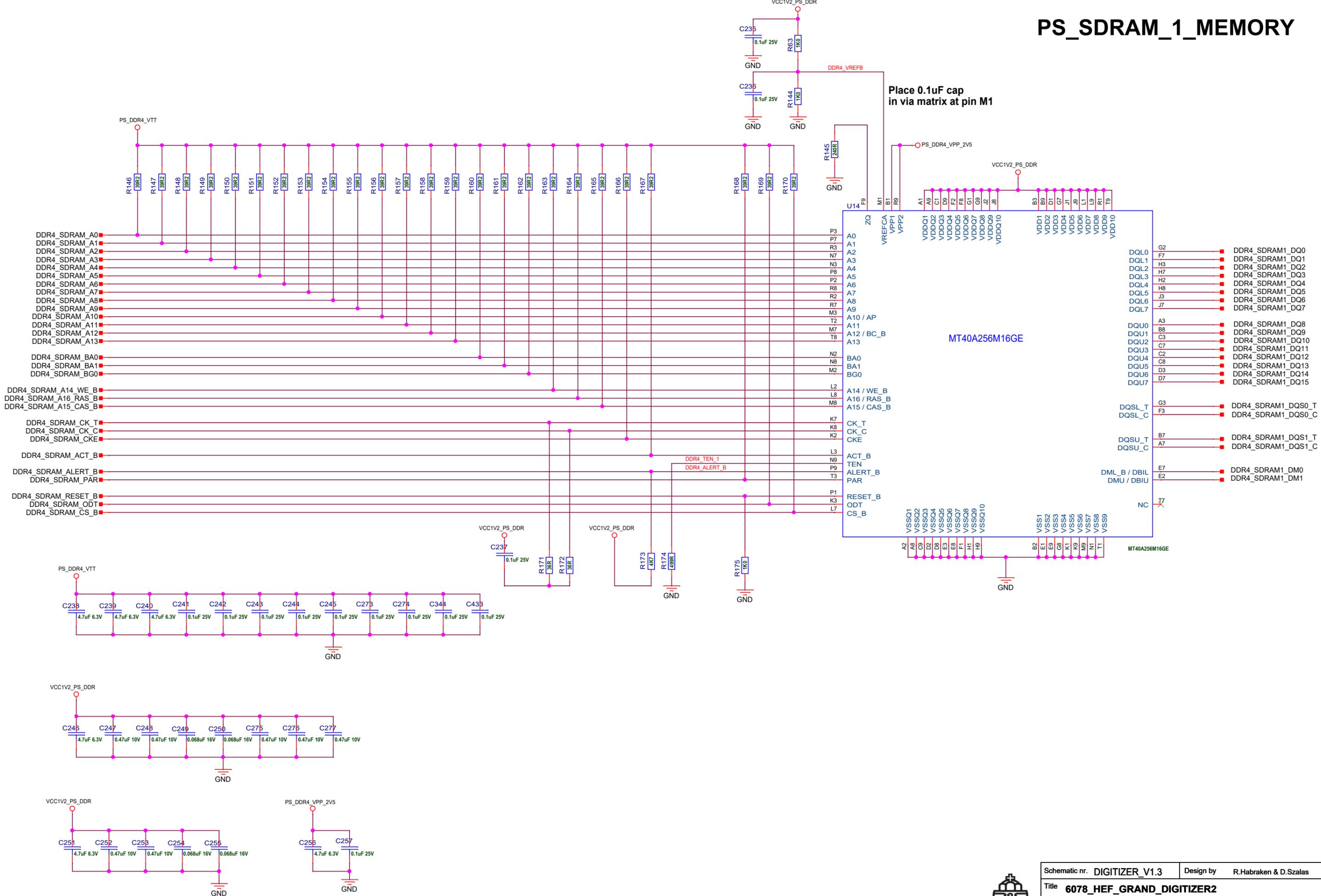


BUTTONS & LEDS





PS_SDRAM_1_MEMORY



Place 0.1uF cap in via matrix at pin M1

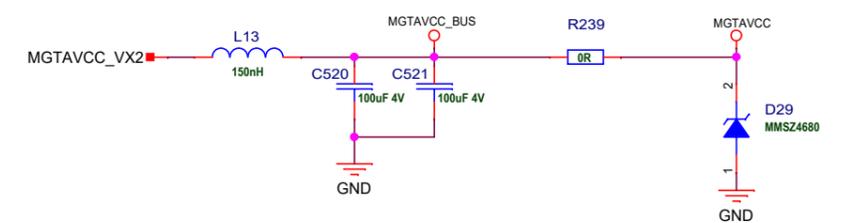
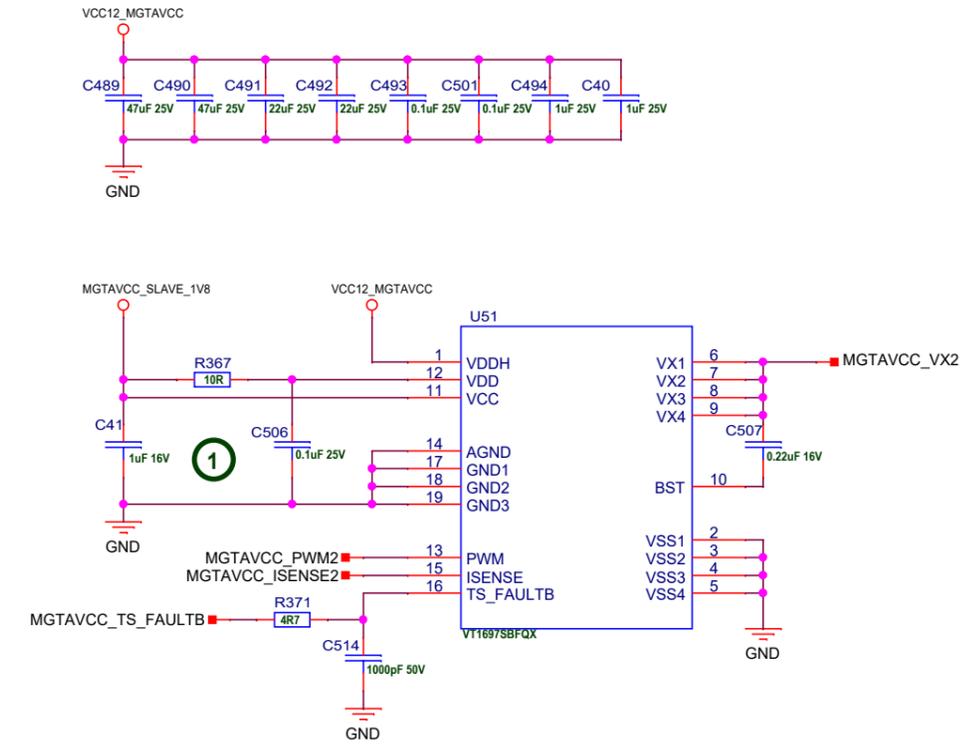
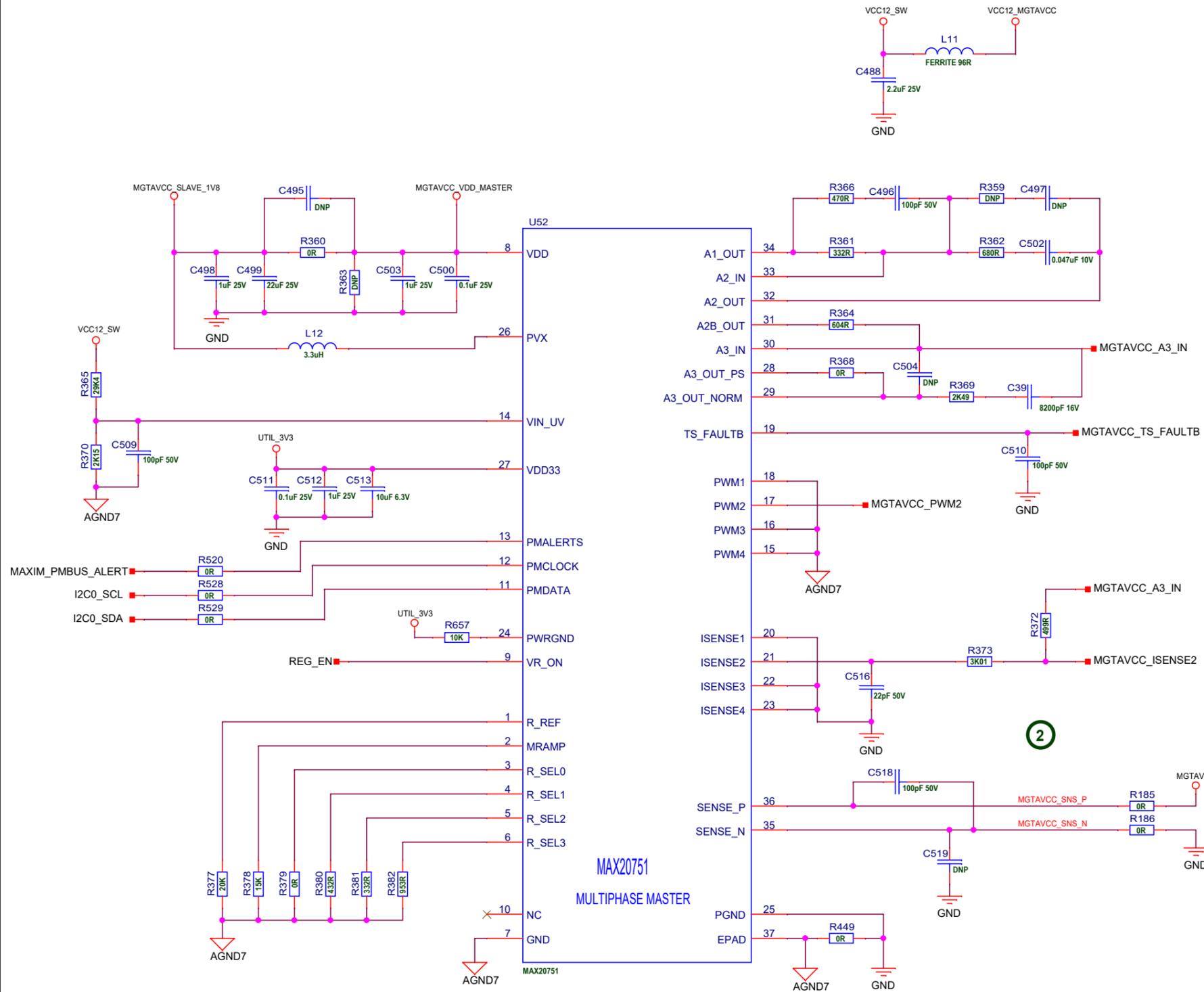
MT40A256M16GE

MT40A256M16GE



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Page PS_SDRAM_1_MEMORY			
Size A3	Project nr. <Doc>	Drawing by F.Hahn	Rev 1.0
Date: Monday, January 14, 2019	Sheet 35	Print (pcb) nr. 150133	of 59

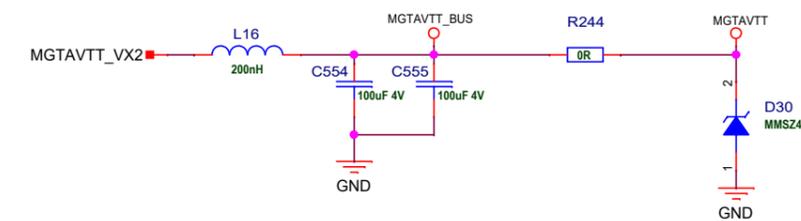
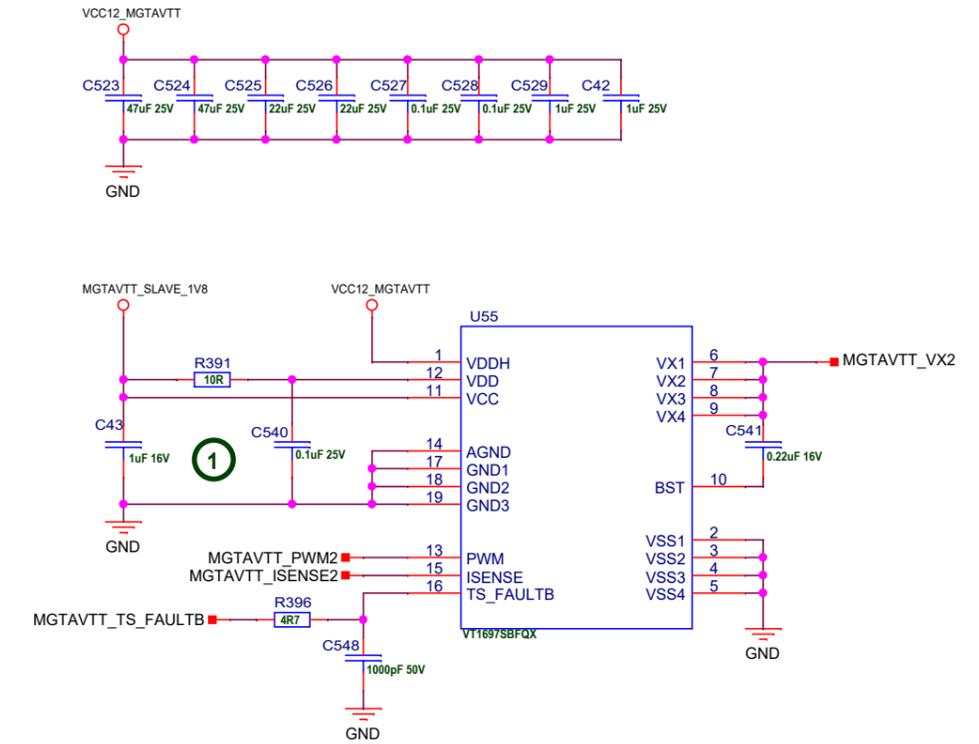
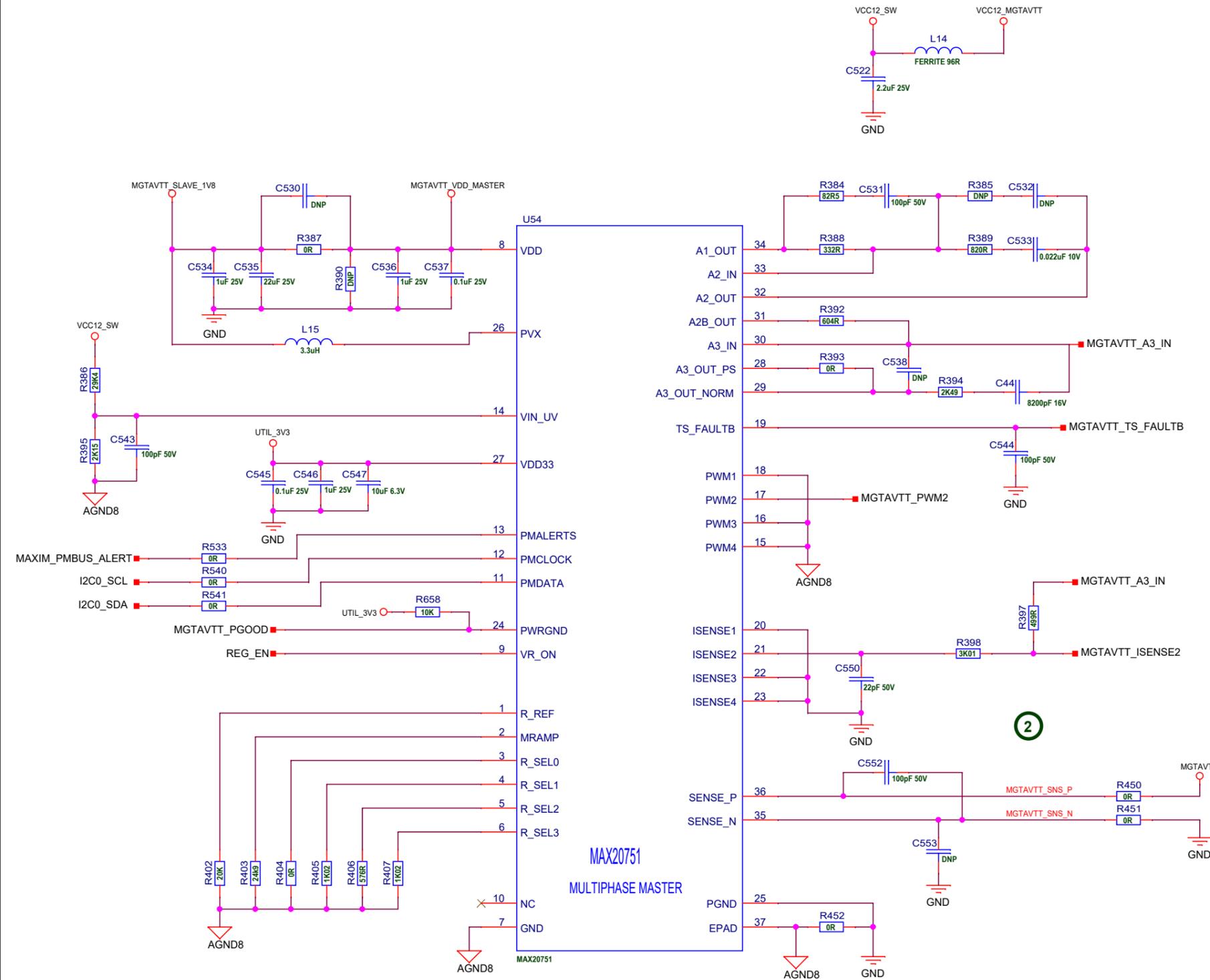
MGTAVCC 0.90V 6A



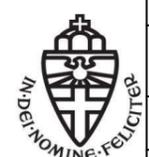
① Capacitors should be placed close as possible to pin 12 and 14

② Split power plane remote sense connections at DUT pads

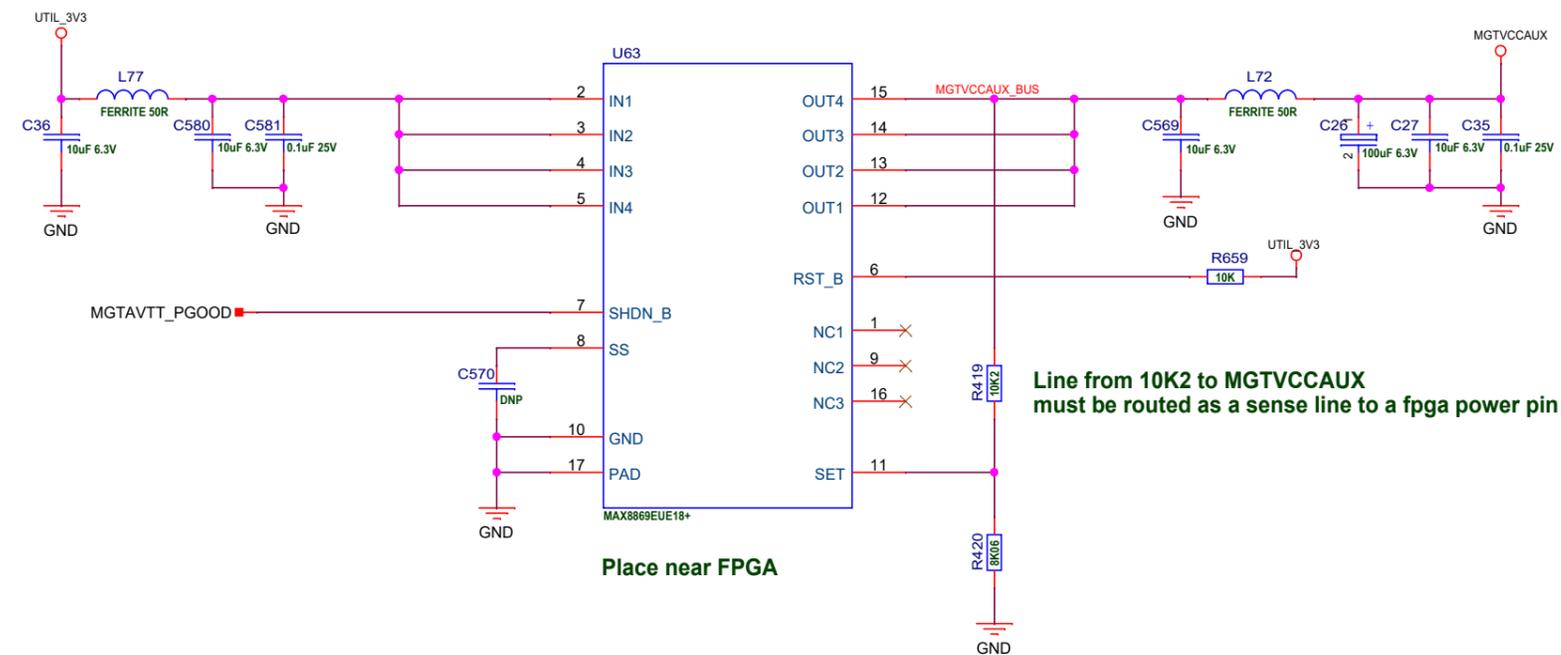
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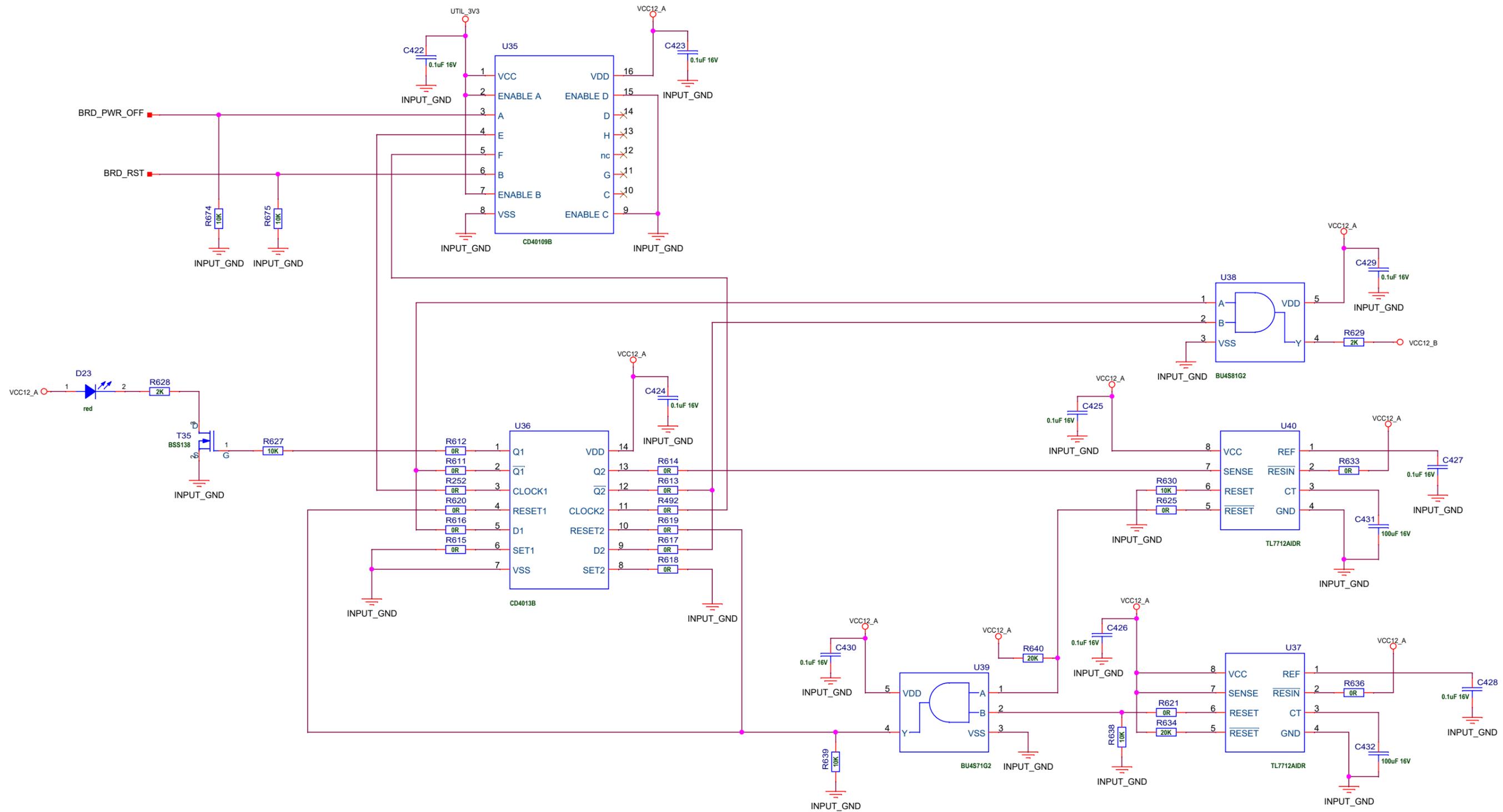


- ① Capacitors should be placed close as possible to pin 12 and 14
- ② Split power plane remote sense connections at DUT pads

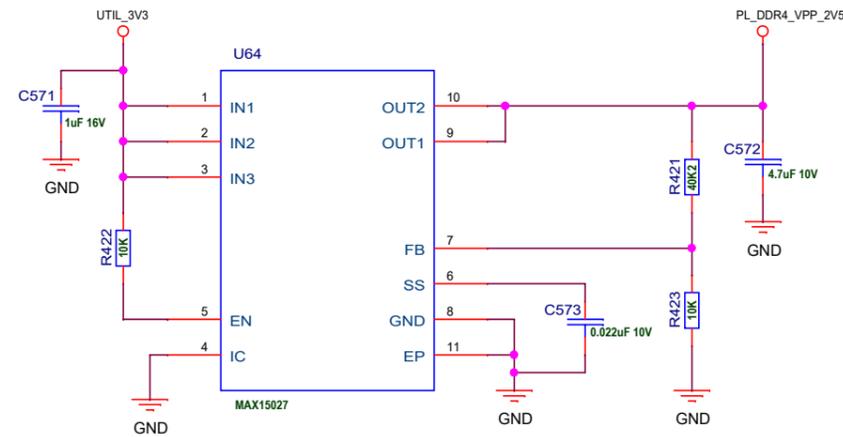


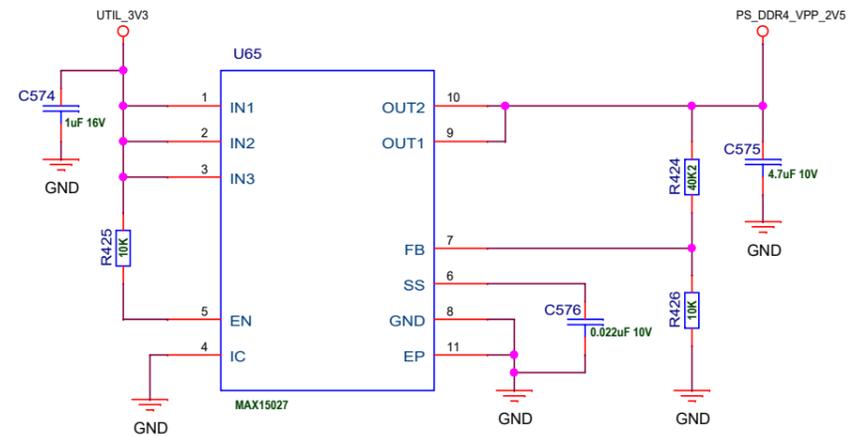
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Title 6078_HEF_GRAND_DIGITIZER2			
Page PWR_MGTAVTT			
Size A3	Project nr. <Doc>	Drawing by F.Hahn	Rev 1.0
Date: Monday, January 14, 2019		Print (pcb) nr. 150133	
		Sheet 38 of 59	



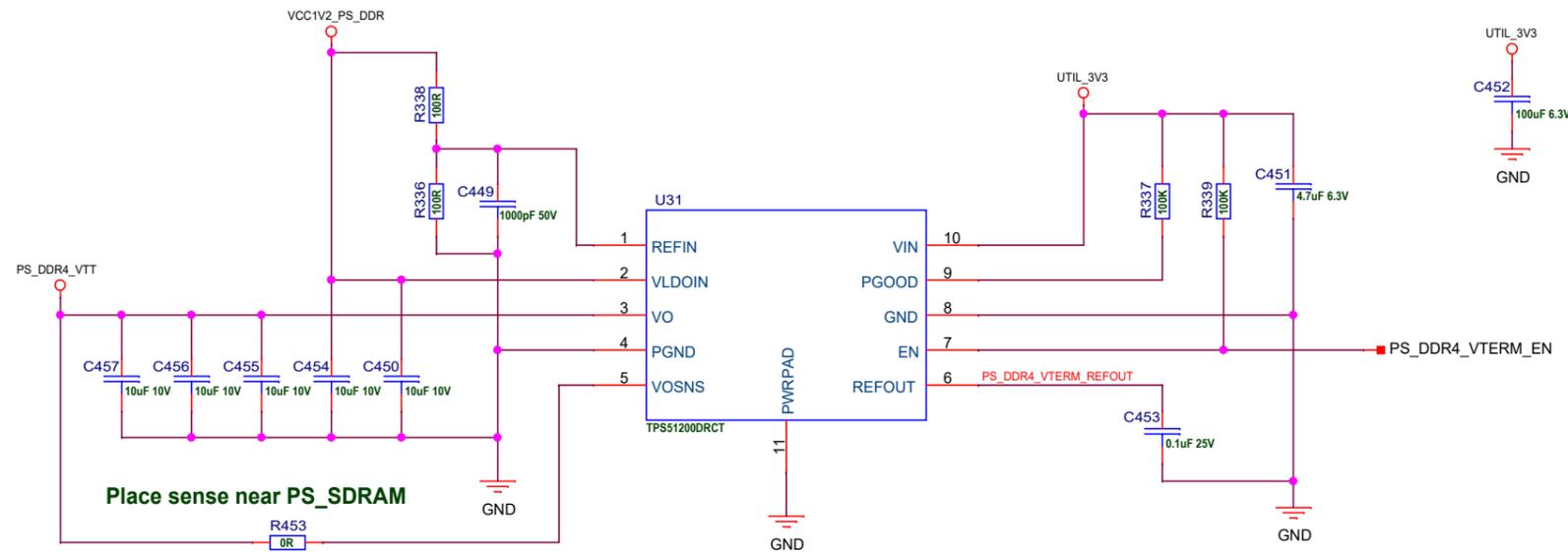


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Page PWR_ON_RESET			
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Date: Monday, January 14, 2019		Print (pcb) nr. 150133	
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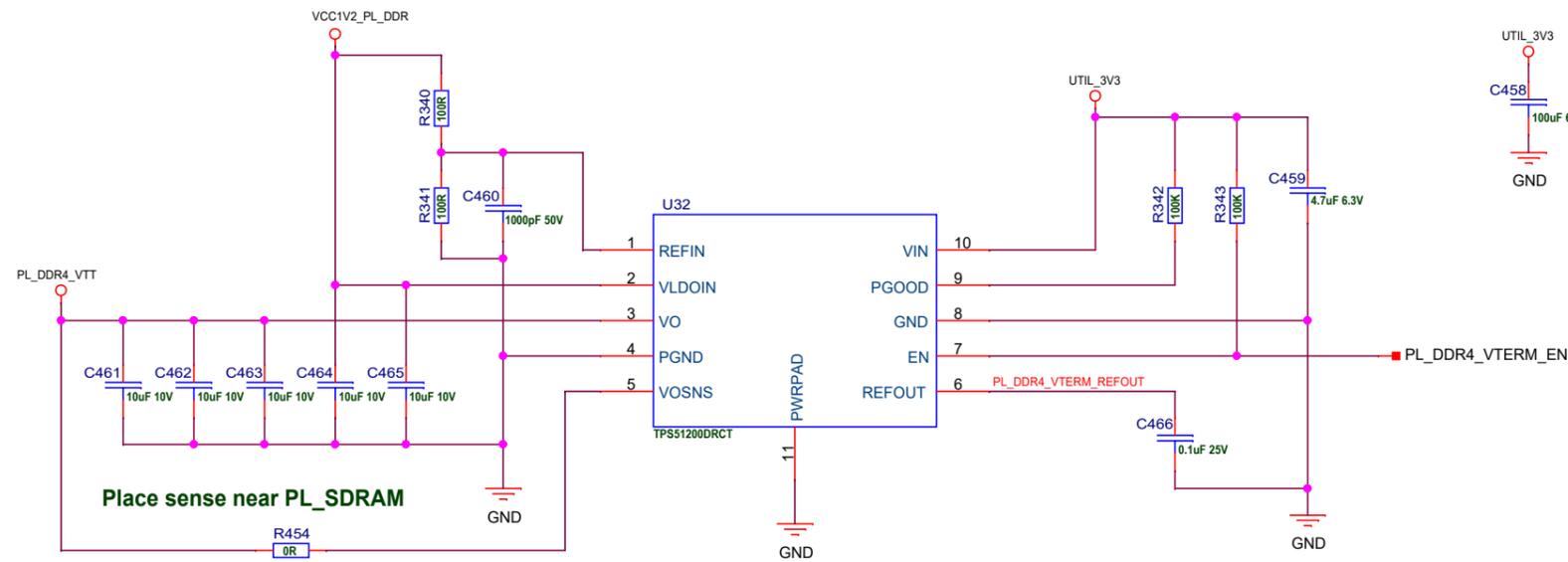




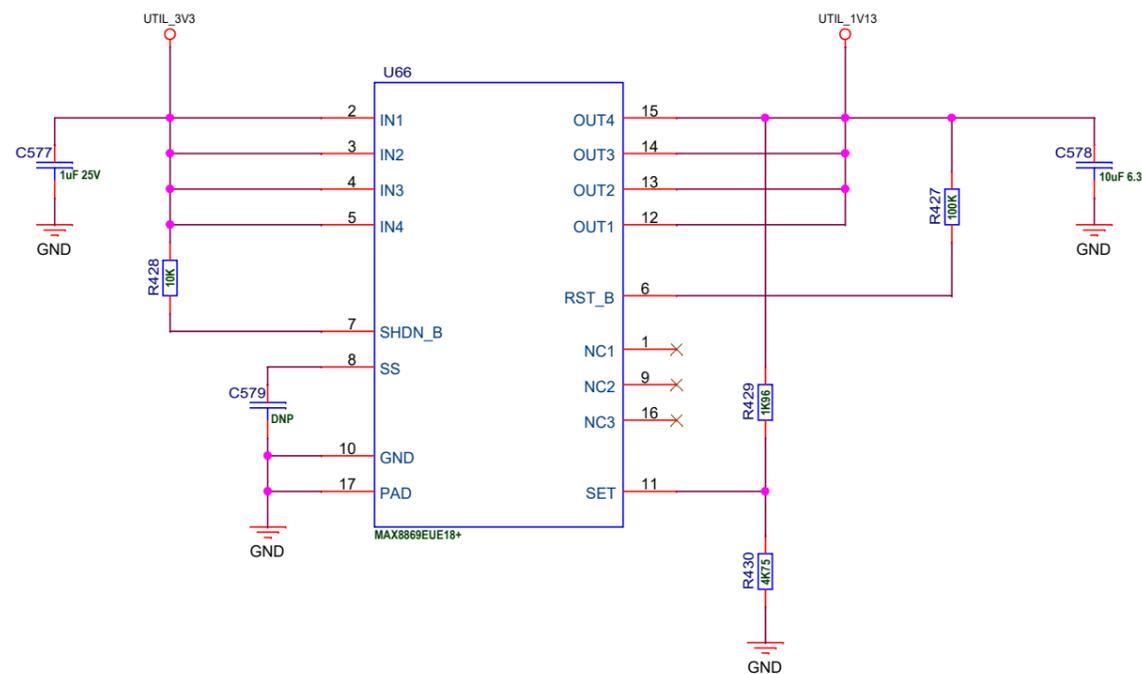
SDRAM Termination Supply



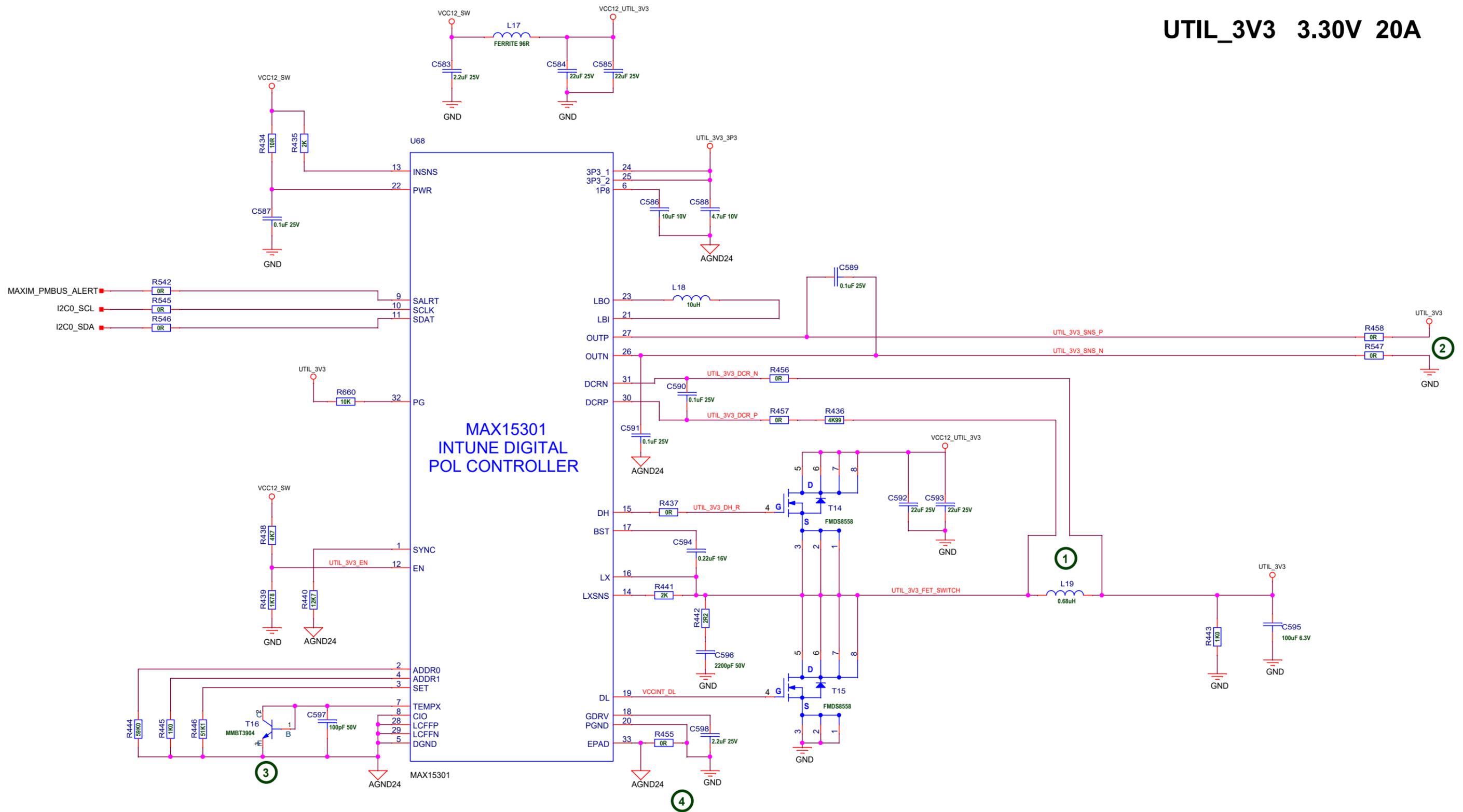
MAXIM 3.3V BULK near PS VTT



MAXIM 3.3V BULK near PL VTT

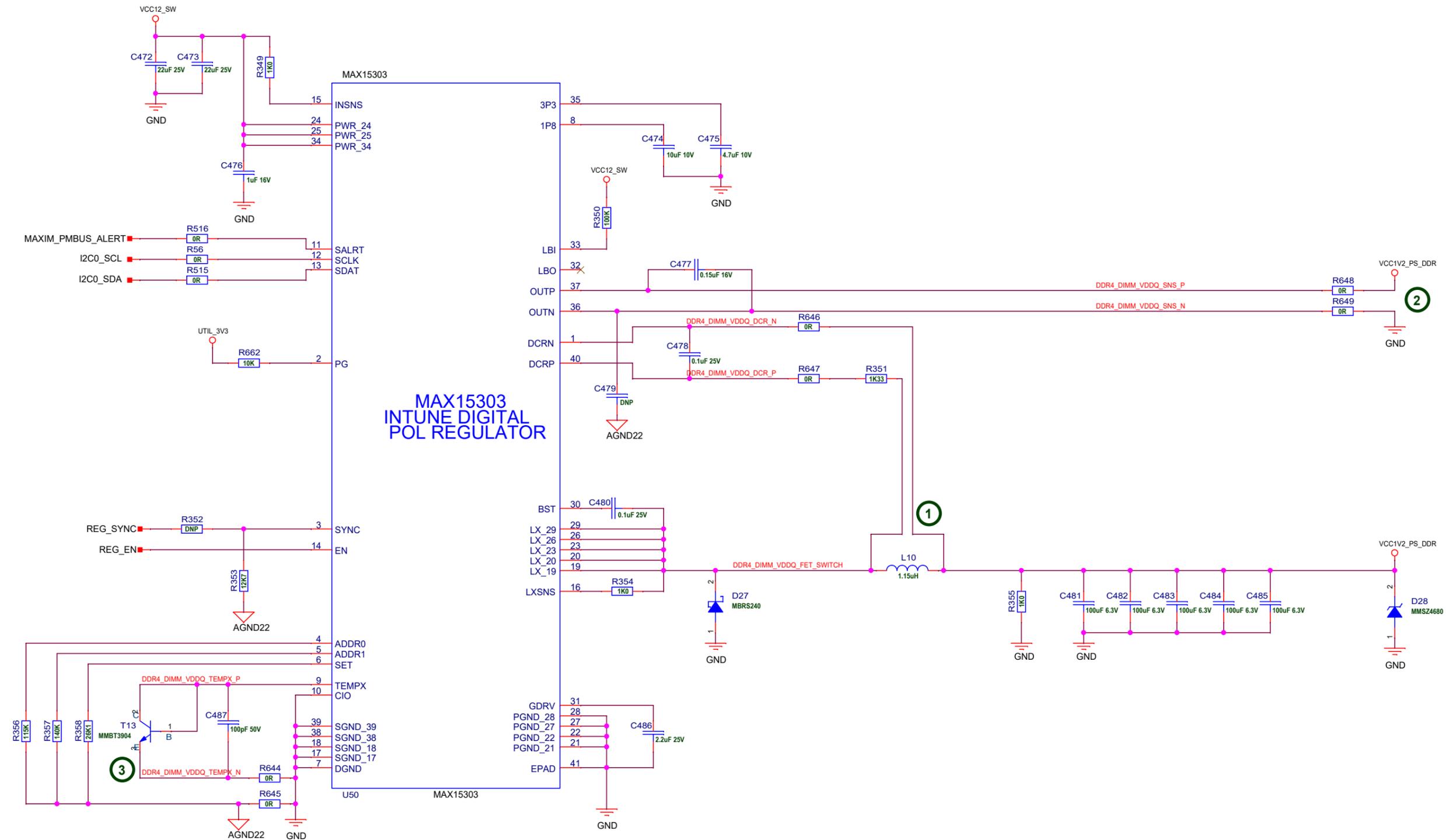


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Page PWR_UTIL_1V13			
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Date: Monday, January 14, 2019		Print (pcb) nr. 150133	Sheet 44 of 59

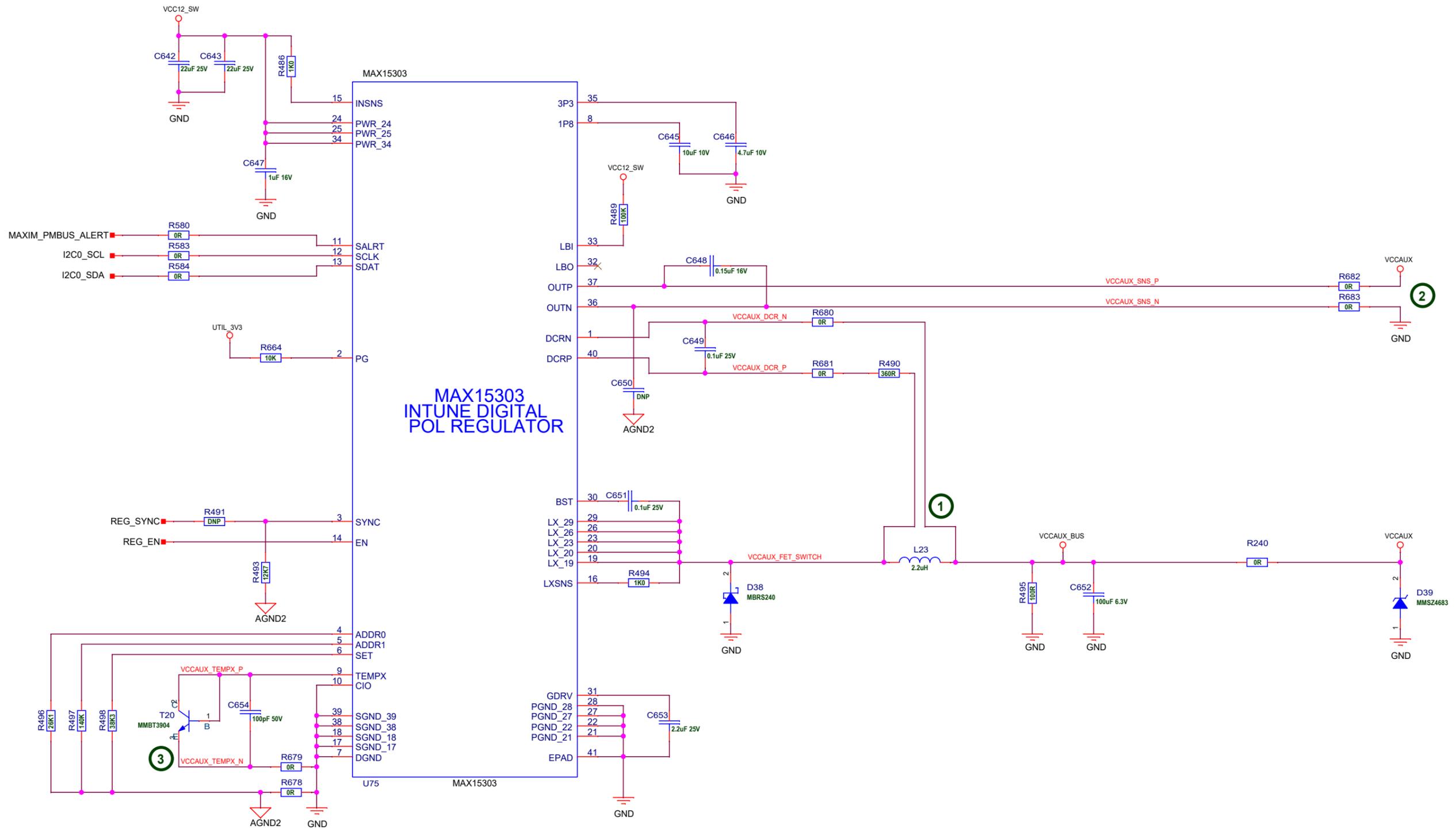


- ① Connect across pins output inductor L19!
- ② Connect remote sense connections at DUT pads
- ③ Place temp.compensation resistor on backside of pcb direct under output Inductor L19.
- ④ Connect AGND to GND at output capacitors

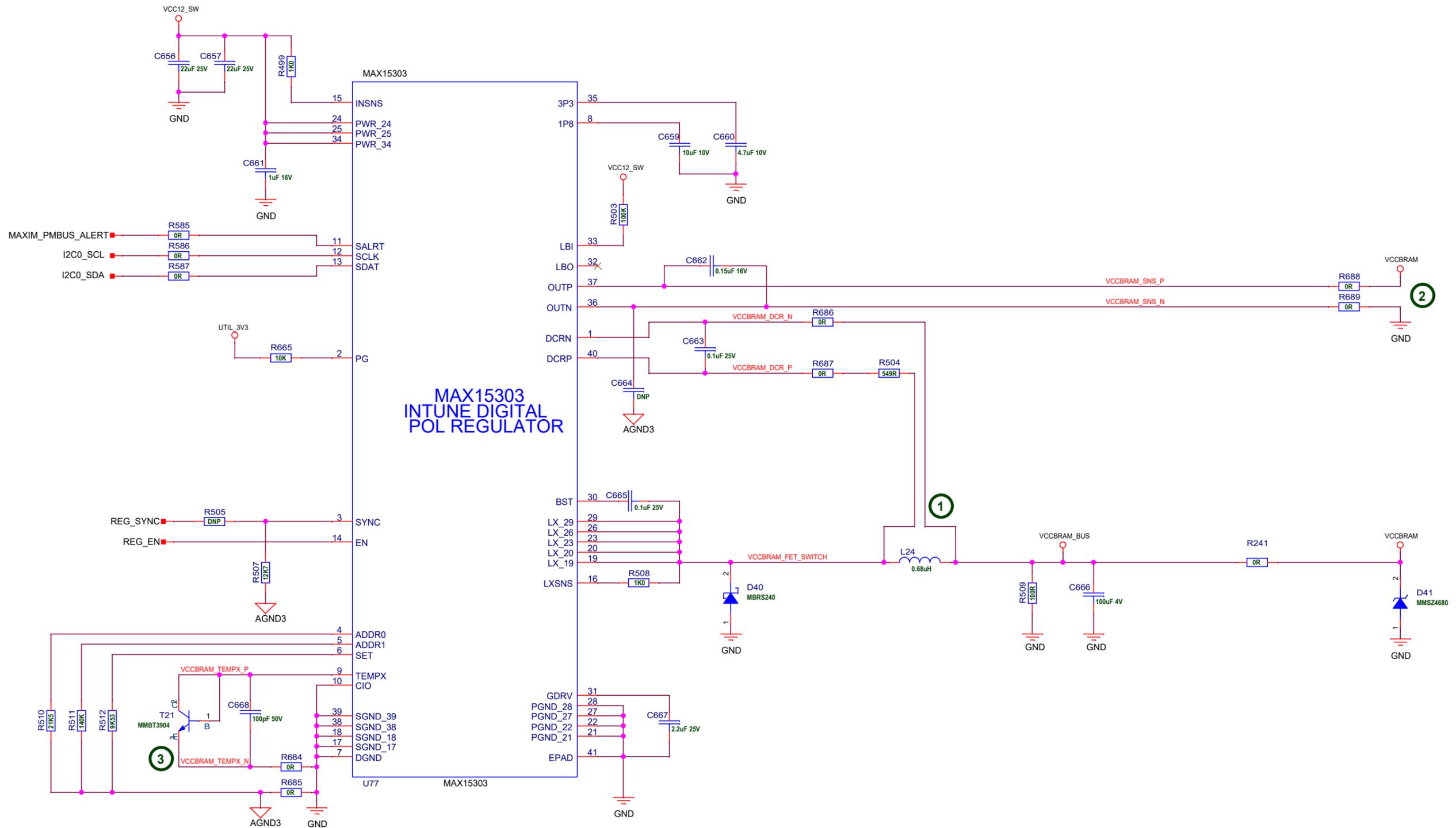
VCC1V2 PS DDR



- ① Connect across pins output inductor L10!
- ② Connect remote sense connections at DUT pads
- ③ Place temp.compensation resistor on backside of pcb direct under output inductor L10.

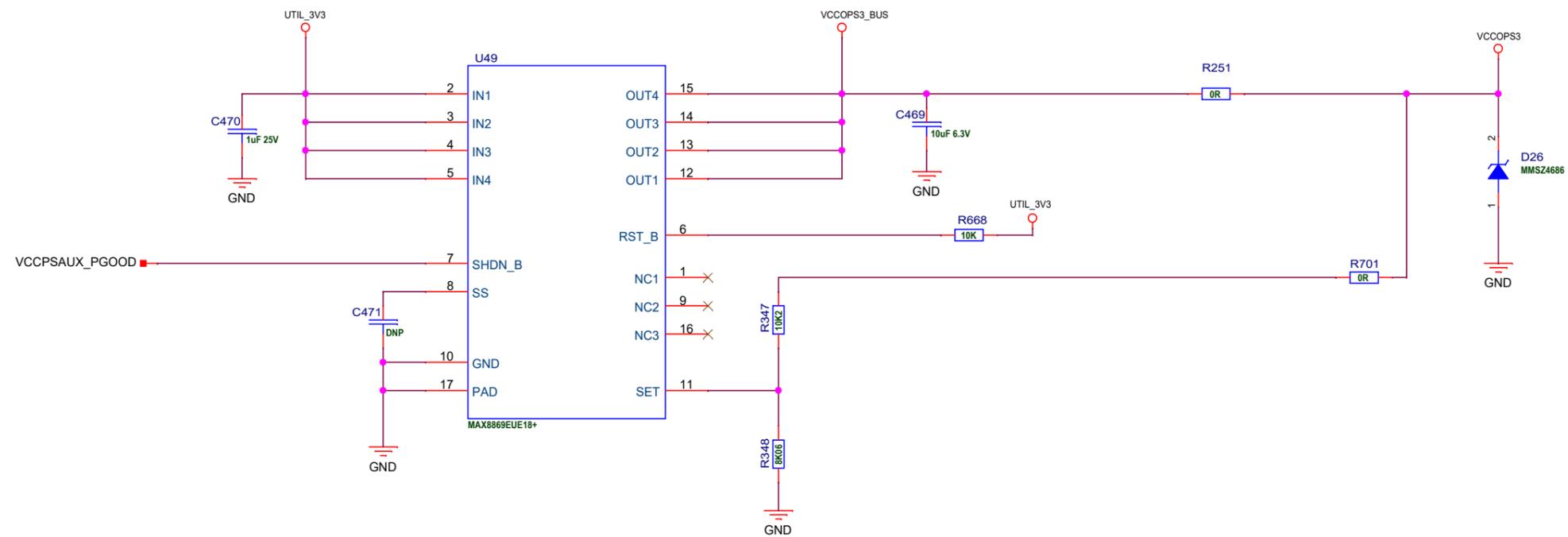


- ① Connect across pins output inductor L23!
- ② Connect remote sense connections at DUT pads
- ③ Place temp.compensation resistor on backside of pcb direct under output inductor L23.

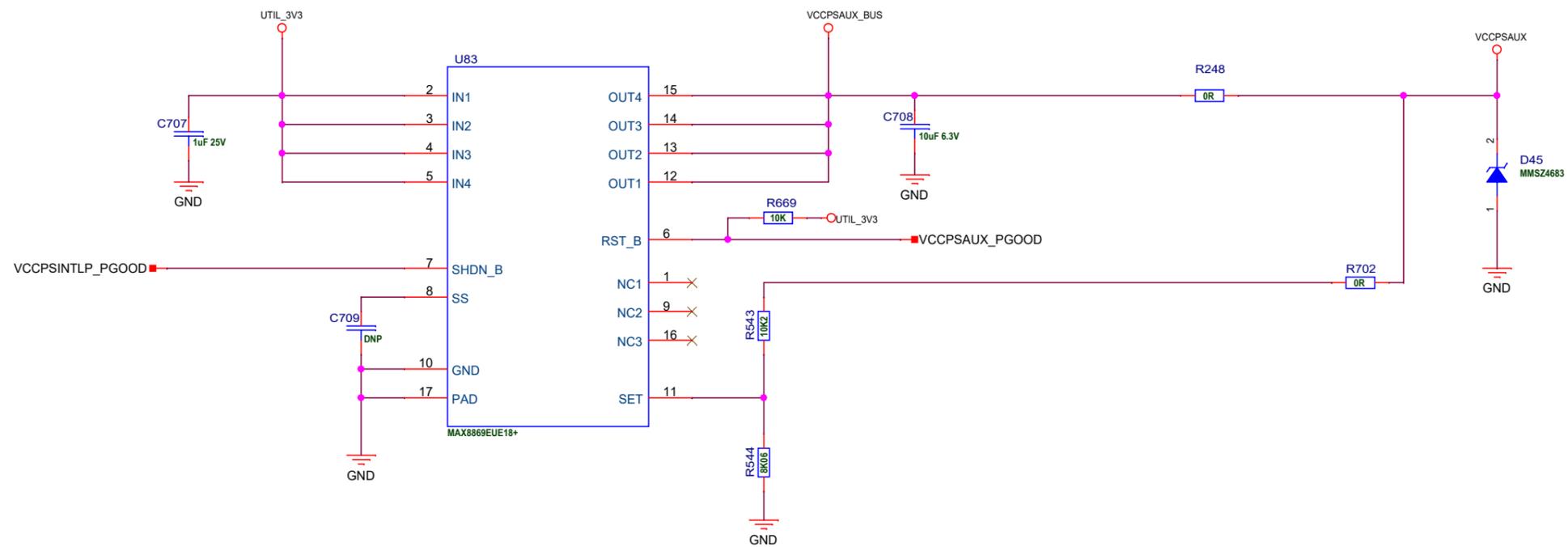


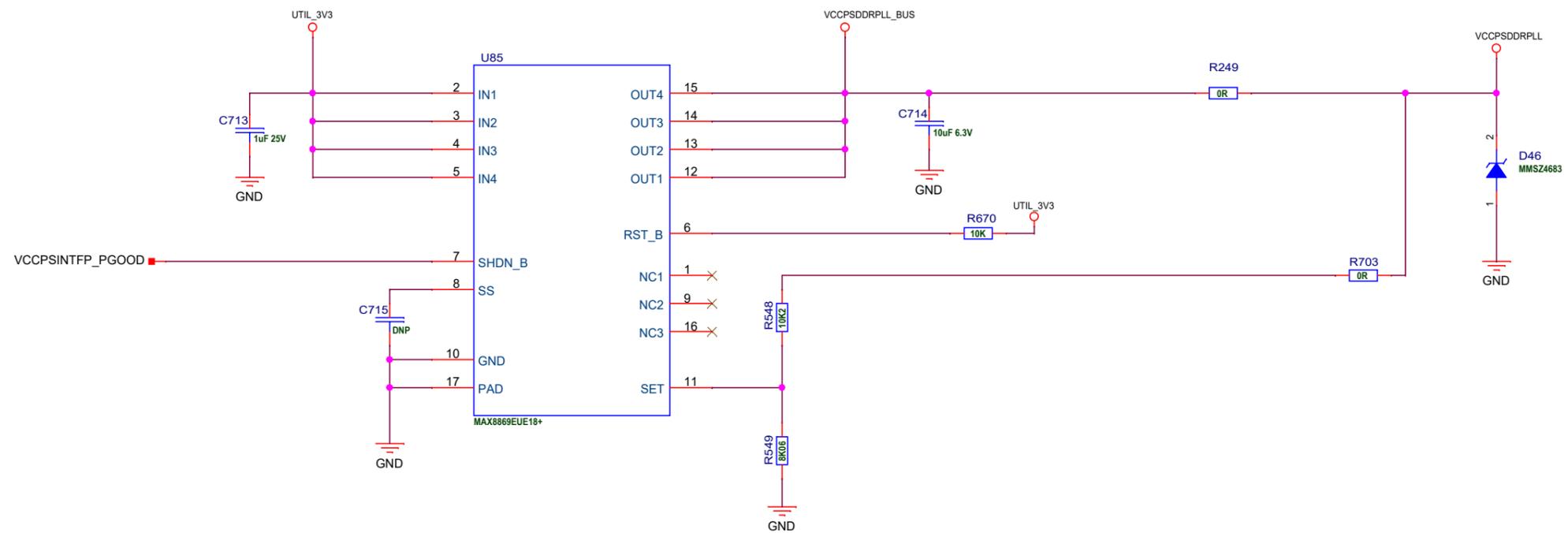
- ① Connect across pins output inductor L24!
- ② Connect remote sense connections at DUT pads
- ③ Place temp.compensation resistor on backside of pcb direct under output inductor L24.

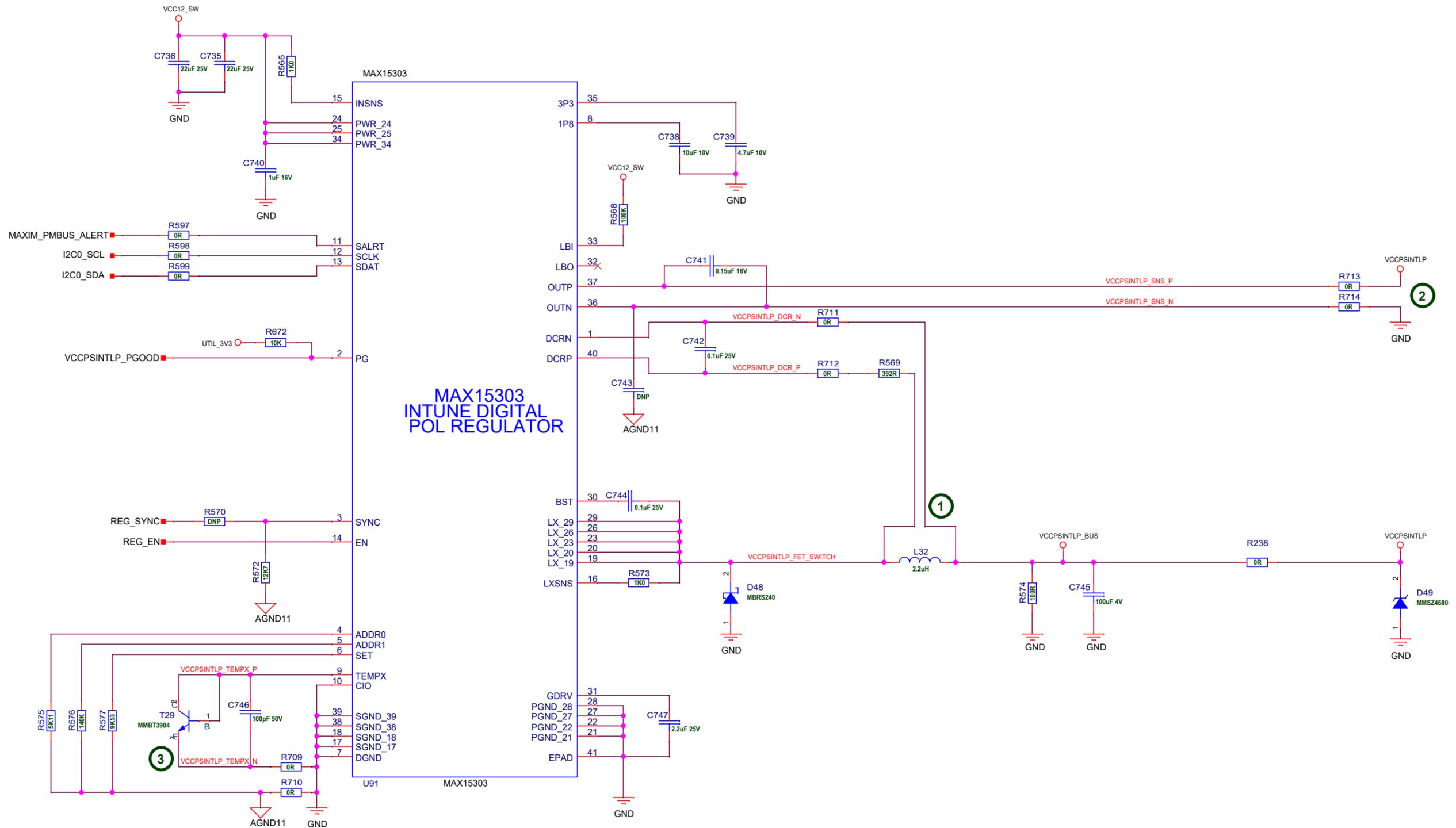
VCCOPS3 1.81V 300mA



VCCPSAUX 1.81V 500mA

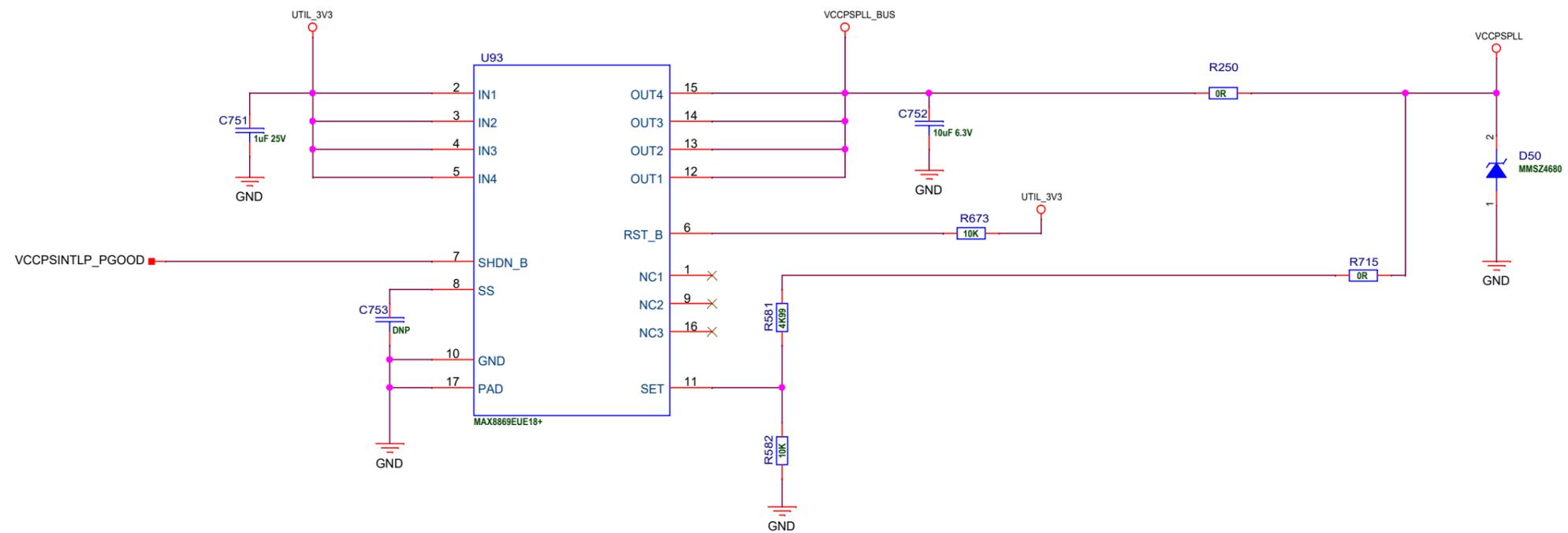




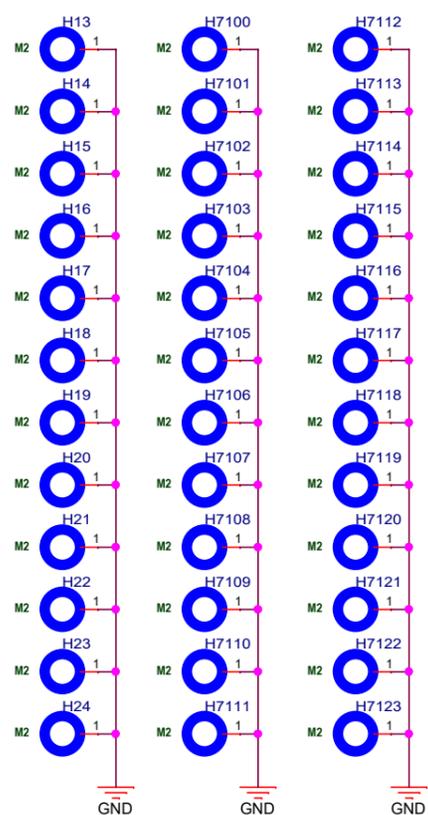


- ① Connect across pins output inductor L32!
- ② Connect remote sense connections at DUT pads
- ③ Place temp.compensation resistor on backside of pcb direct under output inductor L32.

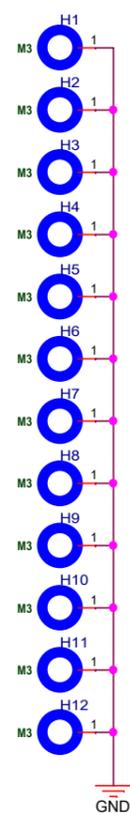
VCCPSPLL 1.20V 200mA



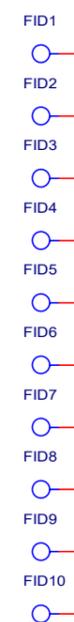
mountingholes for shielding M2



mountingholes M3

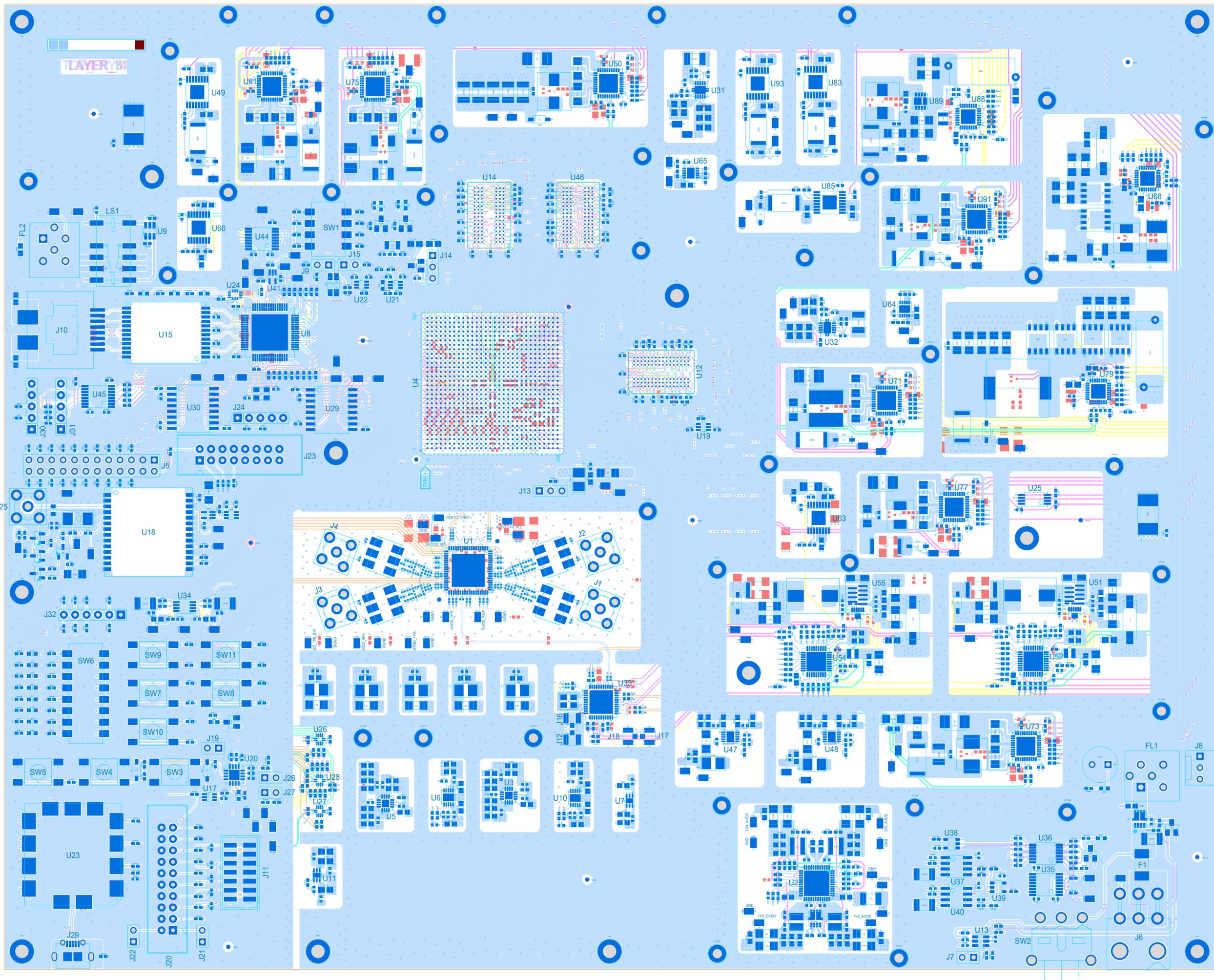


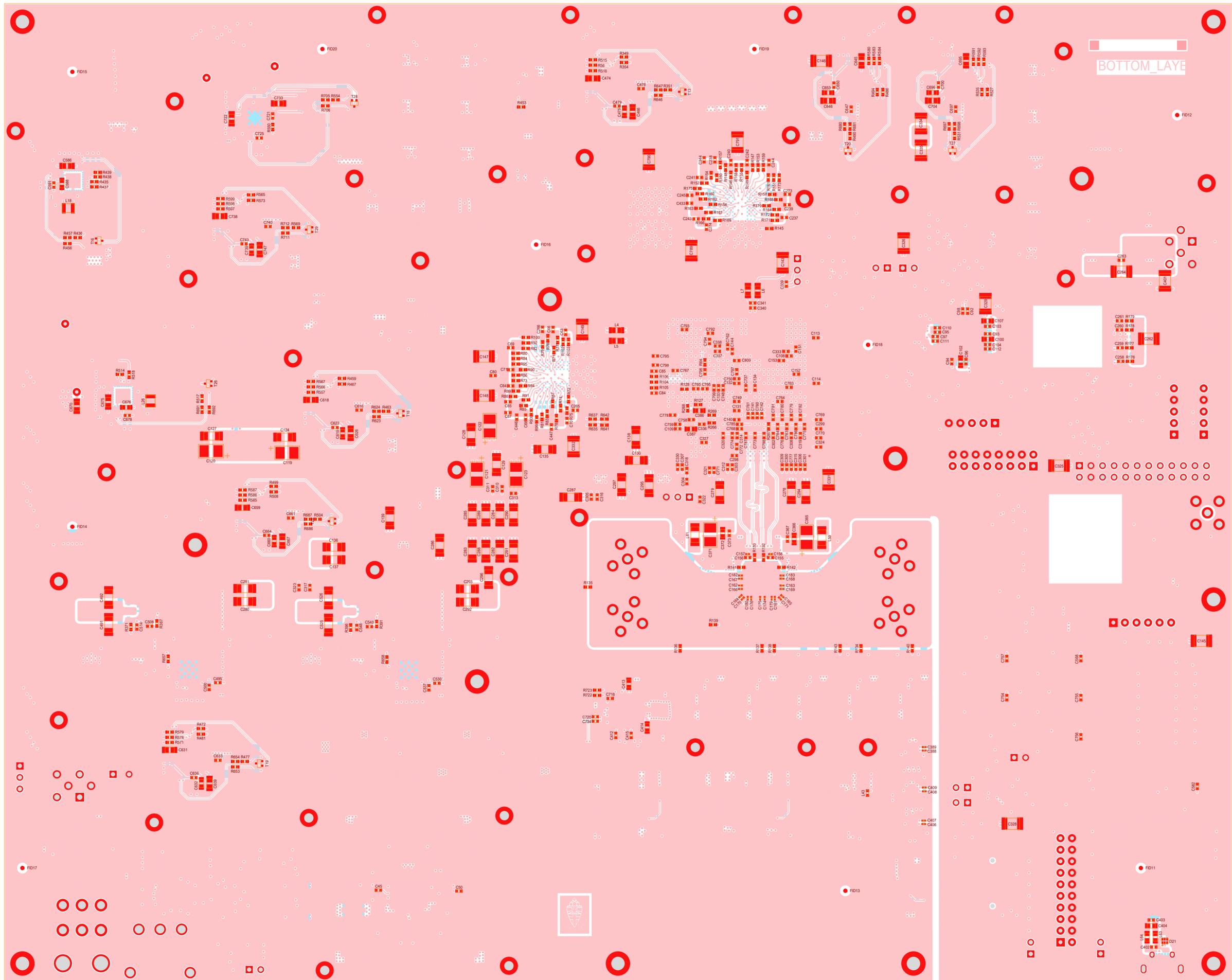
fiducials top_layer



fiducials bottom_layer







BOTTOM_LAYER

C261 R172
C262 R173
C263 R174
C264 R175
C265 R176

C403
C404
C405 R21
C406

C389
C398
C409
C408
C407
C406

FD11

FD13

FD12

FD18

FD19

FD16

FD20

FD15

FD14

FD17



Quantity	Part Reference	Value	Manufacturer	Manufacturer Part Number	Distributor	Distributor Part Number	PCB Footprint
16	C1-C3 C7 C10 C14 C15 C18 C19 C22 C23 C25 C28 C31 C32 C34	2pF 25V	MURATA	GJM0335C1E2R08B01D	MOUSER	81-GJM0335C1E2R08B01	XLNX_CAP0201
60	C4-C6 C8 C9 C11-C13 C16 C17 C20 C21 C24 C29 C30 C33 C37 C38 C154 C159-C189 C388 C389 C406-C409 C706 C710-C712	0.1uF 6.3V	MURATA	GRM033R60J104KE19D	MOUSER	81-GRM033R60J104KE19	XLNX_CAP0201
10	C26 C226 C359 C362 C365 C368 C371 C374 C605 C630	100uF 6.3V	AVX	TAJ8107K006RNJ	MOUSER	581-TAJ8107K006R	CAP_B_CASE3528_T
49	C27 C36 C100 C102 C107 C195-C198 C206-C208 C215 C221 C223-C225 C227 C230-C234 C270 C360 C363 C366 C369 C372 C375 C469 C513 C547 C569 C578 C580 C602-C604 C606 C608 C613 C617 C627 C641 C655 C708 C714 C752 C35 C51-C54 C228 C361 C364 C367	10uF 6.3V	MURATA	GRM188R60J106ME47D	MOUSER	81-GRM188R60J106ME47	XLNX_CAP0603
21	C370 C373 C376 C493 C501 C511 C527 C528 C545 C581 C607 C644	0.1uF 25V	MURATA	GRM155F51E104ZA01D	MOUSER	81-GRM155F51E104ZA01	XLNX_CAP0402
3	C39 C44 C57	8200pF 16V	VISHAY	VI0402Y822KXJCW1BC	MOUSER	77-VI0402Y822KXJCBC	XLNX_CAP0402
20	C40 C42 C382 C400 C404 C413 C414 C470 C494 C498 C503 C512 C529 C534 C536 C546 C577 C707 C713 C751	1uF 25V	MURATA	GRM188R61E105KA12D	DIGIKEY	490-3897-2-ND	XLNX_CAP0603
11	C41 C43 C45 C50 C476 C616 C633 C647 C661 C697 C740	1uF 16V	MURATA	GRM155R61C105MA12D	MOUSER	81-GRM155R61C105MA2D	XLNX_CAP0402
4	C46-C49	10uF 25V	MURATA	GRM188R61E106MA73D	MOUSER	81-GRM188R61E106MA3D	XLNX_CAP0603
2	C55 C56	0.012uF 16V	AVX	0402YC123KAT2A	MOUSER	581-0402YC123K	XLNX_CAP0402
1	C58	2700pF 50V	MURATA	GRM155R71H272KA01D	MOUSER	81-GRM155R71H272KA01	XLNX_CAP0402
33	C59 C60 C99 C101 C105 C106 C150 C190-C194 C201-C205 C210-C214 C217 C222 C229 C271 C505 C508 C517 C542 C609 C658 C705	22uF 6.3V	MURATA	GRM188C60J226MEAD0D	MOUSER	81-GRM188C60J226ME0D	XLNX_CAP0603
99	C61-C63 C67-C71 C83-C85 C235-C237 C241-C245 C257 C265 C266 C273 C274 C337 C339 C340 C344 C345 C381 C384 C385 C390-C397 C402 C403 C405 C410-C412 C415 C417 C433-C437 C442-C447 C453 C466 C478 C480 C500 C506 C537 C540 C568 C582 C587 C589-C591 C599 C621 C623 C635 C637 C649 C651 C663 C665 C674 C677 C679 C699 C701 C720 C721 C724-C726 C734 C742 C744 C754-C757	0.1uF 25V	TAIYO YUDEN	TMK105B1104KV-F	DIGIKEY	587-1456-2-ND	XLNX_CAP0402
43	C64-C66 C72 C77 C82 C131-C134 C140-C142 C144 C238-C240 C246 C251 C256 C298 C301 C303 C304 C307 C309 C310 C313 C315 C316 C319 C327 C330 C333 C336 C451 C459 C549 C562 C567 C803 C804 C806	4.7uF 6.3V	TDK	C1005XSR0J475M050BC	DIGIKEY	445-7395-2-ND	XLNX_CAP0402
30	C73 C74 C78 C79 C247 C248 C252 C253 C267-C269 C275-C277 C300 C306 C312 C318 C321 C338 C341 C342 C448 C551 C556 C559-C561 C563 C564	0.47uF 10V	MURATA	GRM155R61A474KE15D	DIGIKEY	490-3264-1-ND	XLNX_CAP0402
12	C75 C76 C80 C81 C249 C250 C254 C255 C557 C558 C565 C566 C86-C89 C113-C115 C263 C322	0.068uF 16V	TDK	C1005X7R1C683K050BC	DIGIKEY	445-4950-2-ND	XLNX_CAP0402
12	C347 C349 C352	0.1uF 50V	TAIYO YUDEN	UMK105B7104KV-FR UMK105B7104KV-FR UMK105B7104KV-FR	DIGIKEY	587-3498-2-ND	XLNX_CAP0402
2	C90 C91	18pF 50V	MURATA	GRM1555C1H180JA01D	DIGIKEY	490-5858-2-ND	XLNX_CAP0402
13	C92-C98 C103 C104 C108 C109 C200 C209	1000pF 50V	MURATA	GRM1555C1H102JA1J GRM1555C1H102JA01J	MOUSER	81-GRM1555C1H102JA1J	XLNX_CAP0402
9	C110-C112 C379 C418 C420 C600 C601 C678	0.01uF 25V	AVX	04023D103KAT2A	DIGIKEY	478-5267-2-ND	XLNX_CAP0402
5	C119-C123	470uF 2V	PANASONIC	EEF-GX0D471R	DIGIKEY	PCE5028CT-ND	CAP_B_CASE3528_T
43	C124 C127-C130 C135-C139 C278-C297 C520 C521 C554 C555 C624 C666 C683-C687 C730 C745	100uF 4V	TDK	C3216X6S0G107M160AC	DIGIKEY	445-6012-2-ND	XLNX_CAP1206
30	C143 C145-C149 C325 C326 C328 C329 C331 C332 C334 C335 C419 C421 C452 C458 C481-C485 C595 C638 C652 C702 C789-C791	100uF 6.3V	TDK	C3225X6S0J107M250AC	DIGIKEY	445-6016-2-ND	XLNX_CAP1210
60	C151-C153 C422-C430 C438-C441 C737 C748-C750 C758-C788 C792-C800	0.1uF 16V	MURATA	GRM155R71C104KA88D	MOUSER	81-GRM155R71C104KA88	XLNX_CAP0402
17	C155 C156 C199 C216 C218-C220 C272 C353 C354 C610-C612 C669 C673 C691 C716	1uF 6.3V	MURATA	GRM155R60J105KE19D	MOUSER	81-GRM155R60J105KE19	XLNX_CAP0402
2	C157 C158	0.01uF 10V	MURATA	GRM033R71A103KA01D	MOUSER	81-GRM033R71A103KA1D	XLNX_CAP0201
12	C258-C261 C299 C302 C305 C308 C311 C314 C317 C320	0.22uF 16V	TDK	C1005X7R1C224M050BC	MOUSER	810-C1005X7R1C224M050BC	XLNX_CAP0402
1	C262	1000pF 2KV	KEMET	C1210X102KGRACU	MOUSER	80-C1210X102KGR	XLNX_CAP1210
3	C264 C377 C401	10uF 25V	MURATA	GRM32DR61E106KA12L	DIGIKEY	490-1878-2-ND	XLNX_CAP1210
5	C323 C324 C533 C573 C576	0.022uF 10V	KEMET	C0402C223K8PACTU	DIGIKEY	399-3015-2-ND	XLNX_CAP0402
21	C343 C450 C454-C457 C461-C465 C474 C586 C618 C631 C645 C659 C675 C695 C722 C738	10uF 10V	MURATA	GRM21BR61A106KE19L	DIGIKEY	490-1709-2-ND	XLNX_CAP0805
1	C346	33pF 50V	MURATA	GRM1535C1H330JDD5D	DIGIKEY	490-6160-2-ND	XLNX_CAP0402
2	C348 C350	10uF 10V	MURATA	GRM31CR71A106KA01L	MOUSER	81-GRM31CR71A106KA01	XLNX_CAP1206
1	C351	18pF 50V	KEMET	C0402C180J5GAC	MOUSER	80-C0402C180J5GAC	XLNX_CAP0402
3	C355 C357 C358	4.7uF 25V	MURATA	GRM21BR61E475KA12L	MOUSER	81-GRM21BR61E475KA12	XLNX_CAP0805
1	C356	1nF 50V	MURATA	GRM155R71H102KA01D	DIGIKEY	490-1303-2-ND	XLNX_CAP0402
3	C378 C571 C574	1uF 16V	TDK	C1005XSR1C105K050BC	DIGIKEY	445-4978-2-ND	XLNX_CAP0402
22	C380 C471 C479 C495 C497 C504 C519 C530 C532 C538 C553 C570 C579 C622 C636 C650 C664 C700 C709 C715 C743 C753	DNP					XLNX_CAP0402
1	C383	330uF 25V	PANASONIC	EEU-FM1E331L	DIGIKEY	P12387-ND	XLNX_CAPR_800_350
2	C386 C387	DNP					XLNX_CAP0603
4	C398 C399 C516 C550	22pF 50V	MURATA	GRM1535C1H220JDD5D	DIGIKEY	490-6158-2-ND	XLNX_CAP0402
5	C416 C449 C460 C514 C548	1000pF 50V	MURATA	GRM155R71H102KA01D	MOUSER	81-GRM36X102K50	XLNX_CAP0402
2	C431 C432	100uF 16V	TAIYO YUDEN	EMK325ABJ107MM-P	MOUSER	963-EMK325ABJ107MM-P	XLNX_CAP1210
17	C467 C468 C489 C490 C515 C523 C524 C539 C671 C672 C680 C681 C694 C718 C719 C727 C728	47uF 25V	TDK	C3216X5R1E476M160AC	MOUSER	810-C3216X5R1E476M	XLNX_CAP1206
24	C472 C473 C491 C492 C499 C525 C526 C535 C584 C585 C592 C593 C614 C615 C628 C629 C642 C643 C656 C657 C692 C693 C735 C736	22uF 25V	MURATA	GRM31CR61E226KE15L	DIGIKEY	490-5527-2-ND	XLNX_CAP1206
12	C475 C572 C575 C588 C619 C632 C646 C660 C676 C696 C723 C739	4.7uF 10V	TDK	C1608X5R1A475K080AC	DIGIKEY	445-5170-1-ND	XLNX_CAP0603
7	C477 C620 C634 C648 C662 C698 C741	0.15uF 16V	TDK	C1005X7R1C154K050BC	DIGIKEY	445-5934-2-ND	XLNX_CAP0402
15	C486 C488 C522 C583 C598 C626 C639 C653 C667 C670 C690 C704 C717 C733 C747	2.2uF 25V	TAIYO YUDEN	TMK212B7225KG-TR	DIGIKEY	587-2991-2-ND	XLNX_CAP0805
18	C487 C496 C509 C510 C518 C531 C543 C544 C552 C597 C625 C640 C654 C668 C689 C703 C732 C746	100pF 50V	YAGEO	CC0402KRX7R99BB101	DIGIKEY	311-1419-2-ND	XLNX_CAP0402
1	C502	0.047uF 10V	TDK	C1005X5R1A473K050BA	DIGIKEY	445-4980-2-ND	XLNX_CAP0402
5	C507 C541 C594 C682 C729	0.22uF 16V	TDK	C1005X5R1C224K050BB	MOUSER	810-C1005X5R1C224K	XLNX_CAP0402
3	C596 C688 C731	2200pF 50V	MURATA	GRM155R71H222KA01D	DIGIKEY	490-1305-2-ND	XLNX_CAP0402
3	C801 C802 C805	220uF 6.3V	KEMET	A700X227M006ATE007	MOUSER	80-A700X227M006E007	ELCO_X_CASE7343_43
1	D1	SMBJ6.0A	LITTLEFUSE	SMBJ6.0A	MOUSER	576-SMBJ6.0A	DO-214AA
14	D2 D7 D8 D10 D11 D13-D20 D22	green	LUMEX	SML-LX0603GW-TR	DIGIKEY	67-1549-1-ND	XLNX_LED0603
2	D3 D4	BAT54T1G	ON Semiconductor	BAT54T1G	DIGIKEY	BAT54T1G	XLNX_SOD123
3	D5 D6 D23	red	LUMEX	SML-LX0603IW-TR	DIGIKEY	67-1548-2-ND	XLNX_LED0603
1	D9	green/red	Broadcom	HSMF-C155	DIGIKEY	516-1456-2-ND	XLNX_HSMF_C155
1	D12	yellow	LUMEX	SML-LX0603YW-TR	DIGIKEY	67-1550-1-ND	XLNX_LED0603
1	D21	TPD4S012	TEXAS INSTRUMENTS	TPD4S012DRYR	DIGIKEY	296-24244-1-ND	XLNX_S0N6
38	D24 D25 D31-D33 D37 D51-D82	TPD1E05U06	TEXAS INSTRUMENTS	TPD1E05U06DPYT	MOUSER	595-TPD1E05U06DPYT	TI_TPD1E05U06
2	D26 D44	MMSZ4686	ON Semiconductor	MMSZ4686T1G	DIGIKEY	MMSZ4686T1GOSCT-ND	XLNX_SOD123
7	D27 D34 D36 D38 D40 D43 D48	MBSR240	ON Semiconductor	MBSR240LT3G	DIGIKEY	MBSR240LT3GOSCT-ND	XLNX_SMB
9	D28-D30 D35 D41 D42 D47 D49 D50	MMSZ4680	ON Semiconductor	MMSZ4680T1G	DIGIKEY	MMSZ4680T1GOSCT-ND	XLNX_SOD123
3	D39 D45 D46	MMSZ4683	ON Semiconductor	MMSZ4683T1G	DIGIKEY	MMSZ4683T1GOSCT-ND	XLNX_SOD123
1	F1	5A 125VAC	Littlefuse	0452005.MRSN	MOUSER	576-0452005.MRSN	LITTLEFUSE_452
20	FID1-FID20	FIDUCIAL					XLNX_FIDUCIAL
2	FL1 FL2	BNX016	MURATA	BNX016-01	DIGIKEY	490-5055-ND	XLNX_BNX016
12	H1-H12	M3					M3_PLATED_HOLE_CS_SMALL
36	H13-H24 H7100-H7123	M2					M2_PLATED_HOLE
4	J1-J4	SMA	Multicomp	19-46-1-TGG	FARNELL	1169631	SMA_JACK_STRAIGHT
1	J5	HDR_2X12					XLNX_HDR_2X12
1	J6	39-30-0060	MOLEX	0039300060	DIGIKEY	WM21353-ND	XLNX_MINIFIT6P
8	J7 J9 J15 J19 J21 J22 J26 J27	HDR_1X2					XLNX_HDR_1X2
1	J8	22-11-2032	MOLEX	0022112032	DIGIKEY	WM2701-ND	XLNX_FAN_HDR_3P
1	J10	RJ45 8/8 shielded	TE	1705549-1	MOUSER	571-1705549-1	TE_RJ45_1705549-1
1	J11	MOLEX 0878321420	MOLEX	0878321420	DIGIKEY	WM18641-ND	MOLEX_MILLIGRID_14p_SMT

4	J12 J16-J18	UFL	HRS	U.FL-R-SMT-1	FARNELL	1688077	UFL JACK_SMT
2	J13 J14	HDR_1X3					XLNX_HDR_1X3
1	J20	20P					HARTING_HDR_BOXED_2X10
1	J23	HDR_2X8	ASSMANN	AWHW16G-0202-T-R	DIGIKEY	HRP16H-ND	HARTING_HDR_BOXED_2X8
3	J24 J30 J31	5P					HDRM1X5
1	J25	SMB	AMPHENOL	SMB1251B1-3GT30G-50	FARNELL	1111349	SMB JACK STRAIGHT
1	J29	micro USB	HIROSE	ZX62D-AB-5P8	DIGIKEY	H11494TR-ND	XLNX_ZX62D
1	J32	6P					HDRM1X6
6	L1-L3 L63-L65	FERRITE 220R	TDK	MP21608S221ATA00	DIGIKEY	445-1565-2-ND	XLNX_FER0603
5	L4-L8	FERRITE 600R	LAIRD	HZ0805E601R-10	DIGIKEY	240-2399-2-ND	XLNX_FER0805
1	L9	100nH	Colicraft	0603CS-R10XJLU	MOUSER	994-0603CS-R10XJLU	IND0603
2	L10 L28	1.15uH	WE	744310115	DIGIKEY	732-1147-1-ND	XLNX_IND_WE7030
3	L11 L14 L17	FERRITE 96R	LAIRD	28F0121-1SR-10	DIGIKEY	240-2436-1-ND	XLNX_FER_25MD
2	L12 L15	3.3uH	TDK	VLS252012ET-3R3M	DIGIKEY	445-6639-1-ND	XLNX_IND_TDK2520
1	L13	150nH	WE	744308015	DIGIKEY	732-2996-1-ND	XLNX_IND_WE1070
1	L16	200nH	WE	744308020	DIGIKEY	732-2997-1-ND	XLNX_IND_WE1070
3	L18 L26 L30	10uH	WE	74479887310A	MOUSER	732-4516-1-ND	XLNX_IND_WE1008
2	L19 L24	0.68uH	WE	744373340068	DIGIKEY	732-6148-1-ND	XLNX_IND_WE5020
5	L20 L66-L68 L76	FERRITE 120R	MURATA	BLM31PG1215H1L	DIGIKEY	490-7825-1-ND	XLNX_FER1206
1	L21	3.9uH	WE	744787039	DIGIKEY	732-4524-1-ND	XLNX_IND_WE7850
1	L22	1.5uH	WE	74437349015	DIGIKEY	732-3351-1-ND	XLNX_IND_WE7050
2	L23 L32	2.2uH	WE	74437324022	DIGIKEY	732-3331-1-ND	XLNX_IND_WE4020
2	L25 L29	FERRITE 835R	LAIRD	28C0236-0BW-10	DIGIKEY	240-2491-ND	XLNX_FER_AX6X10
1	L27	250nH	WE	744309025	DIGIKEY	732-3005-1-ND	XLNX_IND_WE1300
1	L31	470nH	WE	744373460047	DIGIKEY	732-3366-1-ND	XLNX_IND_WE7030
1	L33	0.47uH	MURATA	LQH32PWR47NNOL	MOUSER	81-LQH32PWR47NNOL	XLNX_IND1210
2	L34 L35	1.5uH	COILCRAFT	ME3220-152MLB	MOUSER	994-ME3220-152MLB	XLNX_ADC_IND_ME3220
1	L36	10uH	COILCRAFT	XAL4040-103MEB	MOUSER	994-XAL4040-103MEB	XLNX_ADC_IND_XAL4040
1	L37	6.8uH	COILCRAFT	XAL4030-682MEC	MOUSER	994-XAL4030-682MEC	XLNX_ADC_IND_XAL4030
18	L38 L40-L45 L47 L49-L52 L54 L56 L69 L70 L73 L74	FERRITE 120R	MURATA	BLM15PD1215N1D	MOUSER	81-BLM15PD1215N1D	XLNX_FER0402
4	L39 L46 L53 L55	FERRITE 80R	MURATA	BLM15PX800SN1D	MOUSER	81-BLM15PX800SN1D	XLNX_FER0402
11	L48 L57-L62 L71 L72 L75 L77	FERRITE 50R	MURATA	BLM31PG500SN1L	MOUSER	81-BLM31PG500SN1L	XLNX_FER1206
1	L51	EE2-3TNUH-L	KEMET	EE2-3TNUH-L	MOUSER	80-EE2-3TNUH-L	KEMET_EE2-3TNUH
1	Q1	SI7157DP-T1-GE3	VISHAY	SI7157DP-T1-GE3	DIGIKEY	SI7157DP-T1-GE3CT-ND	XLNX_ADC_PPAK1212-8
	R1 R2 R4 R5 R8 R9 R13 R15 R18						
24	R20 R22 R24 R25 R27 R29 R31 R32	10R					XLNX_ADC_R0201
	R34 R37 R39 R41 R43 R44 R46						
	R3 R6 R12 R14 R21 R23 R26 R33						
16	R35 R38 R45 R48 R383 R399-R401	0R					XLNX_ADC_R0201
	R7 R10 R11 R16 R17 R19 R28 R30						
12	R36 R40 R42 R47	49R9					XLNX_ADC_R0201
3	R49 R130 R131	100R					XLNX_ADC_R0201
	R50-R52 R55-R60 R62 R66 R67						
	R120 R132-R143 R185 R186 R204						
	R232 R233 R235 R252 R291 R321						
	R322 R324-R328 R330-R332 R360						
	R368 R379 R387 R393 R404 R417						
	R418 R437 R447-R458 R475 R479						
	R492 R515 R516 R518 R520 R528						
	R529 R533 R540-R542 R545-R547						
	R552 R553 R557 R566 R567 R571						
	R578-R580 R583-R599 R601-R621						
	R623-R626 R633 R636 R643-R650						
	R652-R654 R676-R716 R718						
	R53 R61 R65 R69 R70 R183 R231						
	R234 R261 R268 R269 R277 R278						
	R323 R329 R334 R335 R344-R346						
	R352 R359 R363 R374-R376 R385						
	R390 R464 R465 R478 R491 R505						
	R532 R556 R570 R717 R719						
38	R54 R469	DNP					XLNX_ADC_R0402
2	R54 R469	31K6	PANASONIC	ERJ-2RKF3162X	DIGIKEY	P31.6KLCT-ND	XLNX_ADC_R0402
	R63 R97-R99 R105 R106 R115-R118						
	R144 R175 R182 R190-R195 R215						
	R216 R220 R245 R246 R253 R257						
	R265 R292-R294 R303-R312 R315						
	R317 R349 R354 R355 R443 R445						
	R459 R460 R467 R472 R481 R482						
	R486 R494 R499 R508 R527 R535						
	R565 R573 R635 R637 R641 R642						
65	R64 R96 R127 R145 R266 R412	1K0	PANASONIC	ERJ-2RKF1001X	DIGIKEY	P1.00KLCT-ND	XLNX_ADC_R0402
	R68 R119 R121 R129 R217 R221						
	R254 R258 R271-R274 R422 R423						
	R425 R426 R428 R488 R502 R506						
	R582 R622 R627 R630 R638 R639						
	R655-R675						
47	R71-R95 R146-R170	10K	PANASONIC	ERJ-2RKF1002X	DIGIKEY	P10.0KLCT-ND	XLNX_ADC_R0402
	R100 R107-R110 R173 R184 R196-						
	R203 R205-R209 R275 R276 R284						
	R285 R287 R408-R411 R414 R415						
	R438 R473 R474 R722 R723						
50	R101 R174 R210-R213 R281 R283	39R2	PANASONIC	ERJ-2RKF39R2X	DIGIKEY	P39.2LCT-ND	XLNX_ADC_R0402
	R372 R397 R651						
36	R102 R103 R171 R172	4K7	PANASONIC	ERJ-2RKF4701X	DIGIKEY	P4.7KLCT-ND	XLNX_ADC_R0402
	R102 R103 R171 R172						
4	R104	49R9	PANASONIC	ERJ-2RKF49R9X	DIGIKEY	P49.9LCT-ND	XLNX_ADC_R0402
2	R111 R537	11K	PANASONIC	ERJ-2RKF1102X	DIGIKEY	P11.0LCT-ND	XLNX_ADC_R0402
1	R112	1M	PANASONIC	ERJ-2GEJ105X	DIGIKEY	P1.0MCT-ND	XLNX_ADC_R0402
3	R113 R114 R562	2K21	PANASONIC	ERJ-2RKF2211X	DIGIKEY	P2.21KLCT-ND	XLNX_ADC_R0402
2	R122 R123	619R	PANASONIC	ERJ-2RKF6190X	DIGIKEY	P619LCT-ND	XLNX_ADC_R0402
1	R124	1K43	PANASONIC	ERJ-2RKF1431X	DIGIKEY	P1.43KLCT-ND	XLNX_ADC_R0402
1	R125	4K53	PANASONIC	ERJ-2RKF4531X	DIGIKEY	P4.53KLCT-ND	XLNX_ADC_R0402
2	R126 R181	14K3	PANASONIC	ERJ-2RKF1432X	DIGIKEY	P14.3KLCT-ND	XLNX_ADC_R0402
	R128 R267 R313 R314 R316 R336						
	R338 R340 R341 R413 R416 R468						
	R495 R509 R523 R536 R561 R574						
	R720 R721						
20	R176-R179	100R	PANASONIC	ERJ-2RKF1000X	DIGIKEY	P100LCT-ND	XLNX_ADC_R0402
4	R180 R224 R226 R228	75R	PANASONIC	ERJ-2RKF75R0X	DIGIKEY	P75.0LCT-ND	XLNX_ADC_R0402
4	R180 R224 R226 R228	23K2	PANASONIC	ERJ-2RKF2322X	DIGIKEY	P23.2KLCT-ND	XLNX_ADC_R0402
18	R187-R189 R279 R280 R282 R286	261R	PANASONIC	ERJ-2RKF2610X	DIGIKEY	P261LCT-ND	XLNX_ADC_R0402
	R288 R289 R295-R302 R461						
1	R214	20R	PANASONIC	ERJ-2RKF20R0X	DIGIKEY	P20.0LCT-ND	XLNX_ADC_R0402
7	R218 R367 R391 R434 R513 R550	10R	PANASONIC	ERJ-2RKF10R0X	DIGIKEY	P10.0LCT-ND	XLNX_ADC_R0402
	R555						
1	R219	56R2	PANASONIC	ERJ-2RKF56R2X	DIGIKEY	P56.2LCT-ND	XLNX_ADC_R0402
2	R222 R223	5K62	PANASONIC	ERJ-2RKF5621X	DIGIKEY	P5.62KLCT-ND	XLNX_ADC_R0402
1	R225	64K9	PANASONIC	ERJ-2RKF6492X	DIGIKEY	P64.9KLCT-ND	XLNX_ADC_R0402
1	R227	46K4	PANASONIC	ERJ-2RKF4642X	DIGIKEY	P46.4KLCT-ND	XLNX_ADC_R0402
2	R229 R230	6K34	PANASONIC	ERJ-2RKF6341X	DIGIKEY	P6.34KLCT-ND	XLNX_ADC_R0402
14	R236-R244 R247-R251	0R	TE	3522ZR	DIGIKEY	A121322CT-ND	RES2512
1	R255	3K32	PANASONIC	ERJ-2RKF3321X	DIGIKEY	P3.32KLCT-ND	XLNX_ADC_R0402
1	R256	1K50	PANASONIC	ERJ-2RKF1501X	DIGIKEY	P1.50KLCT-ND	XLNX_ADC_R0402
4	R259 R436 R500 R581	4K99	PANASONIC	ERJ-2RKF4991X	DIGIKEY	P4.99KLCT-ND	XLNX_ADC_R0402
9	R260 R435 R441 R514 R519 R551	2K	PANASONIC	ERJ-502F2001X	DIGIKEY	ERJ-502F2001X-ND	XLNX_ADC_R0402
	R559 R628 R629						
2	R262 R263	20K5	PANASONIC	ERJ-2RKF2052X	DIGIKEY	P20.5KLCT-ND	XLNX_ADC_R0402
3	R264 R575 R600	5K11	PANASONIC	ERJ-2RKF5111X	DIGIKEY	P5.11KLCT-ND	XLNX_ADC_R0402
5	R270 R348 R420 R544 R549	8K06	PANASONIC	ERJ-2RKF8061X	DIGIKEY	P8.06KLCT-ND	XLNX_ADC_R0402
1	R290	4M7	PANASONIC	ERJ-2GEJ475X	DIGIKEY	P4.7MCT-ND	XLNX_ADC_R0402
3	R318-R320	15R	PANASONIC	ERJ-2RKF15R0X	DIGIKEY	P15.0LCT-ND	XLNX_ADC_R0402
1	R333	33R	PANASONIC	ERJ-2RKF33R0X	DIGIKEY	P33.0LCT-ND	XLNX_ADC_R0402
	R337 R339 R342 R343 R350 R427						
	R462 R476 R489 R503 R530 R568						
12	R347 R419 R543 R548	100K	PANASONIC	ERJ-2RKF1003X	DIGIKEY	P100KLCT-ND	XLNX_ADC_R0402
4	R351 R531	1K33	PANASONIC	ERJ-2RKF1022X	DIGIKEY	P10.2KLCT-ND	XLNX_ADC_R0402
2	R353 R440 R466 R480 R493 R507	1K33	PANASONIC	ERJ-2RKF1331X	DIGIKEY	P1.33KLCT-ND	XLNX_ADC_R0402
9	R534 R558 R572	12K7	PANASONIC	ERJ-2RKF1272X	DIGIKEY	P12.7KLCT-ND	XLNX_ADC_R0402
1	R356	115K	PANASONIC	ERJ-2RKF1153X	DIGIKEY	P115KLCT-ND	XLNX_ADC_R0402
9	R357 R470 R484 R497 R511 R525	140K	PANASONIC	ERJ-2RKF1403X	DIGIKEY	P140KLCT-ND	XLNX_ADC_R0402
	R538 R563 R576						
3	R358 R471 R496	26K1	PANASONIC	ERJ-2RKF2612X	DIGIKEY	P26.1KLCT-ND	XLNX_ADC_R0402
3	R361 R381 R388	332R	PANASONIC	ERJ-2RKF3320X	DIGIKEY	P332LCT-ND	XLNX_ADC_R0402
1	R362	680R	PANASONIC	ERJ-2RKF6800X	DIGIKEY	P680LCT-ND	XLNX_ADC_R0402
2	R364 R392	604R	PANASONIC	ERJ-2RKF6040X	DIGIKEY	P604LCT-ND	XLNX_ADC_R0402
2	R365 R386	29K4	PANASONIC	ERJ-2RKF2942X	DIGIKEY	P29.4KLCT-ND	XLNX_ADC_R0402
1	R366	470R	PANASONIC	ERJ-2RKF4700X	DIGIKEY	P470LCT-ND	XLNX_ADC_R0402
2	R369 R394	2K49	PANASONIC	ERJ-2RKF2491X	DIGIKEY	P2.49KLCT-ND	XLNX_ADC_R0402
2	R370 R395	2K15	PANASONIC	ERJ-2RKF2151X	DIGIKEY	P2.15KLCT-ND	XLNX_ADC_R0402
2	R371 R396	4R7	PANASONIC	ERJ-2GEJ4R7X	DIGIKEY	P4.7LCT-ND	XLNX_ADC_R0402
2	R373 R398	3K01	PANASONIC	ERJ-2RKF3011X	DIGIKEY	P3.01KLCT-ND	XLNX_ADC_R0402
4	R377 R402 R634 R640	20K	PANASONIC	ERJ-2RKF2002X	DIGIKEY	P20.0KLCT-ND	XLNX_ADC_R0402
1	R378	15K	PANASONIC	ERJ-2RKF1502X	DIGIKEY	P15.0LCT-ND	XLNX_ADC_R0402
1	R380	432R	PANASONIC	ERJ-2RKF4320X	DIGIKEY	P432LCT-ND	XLNX_ADC_R0402
1	R382	953R	PANASONIC	ERJ-2RKF9530X	DIGIKEY	P953LCT-ND	XLNX_ADC_R0402
1	R384	82R5	PANASONIC	ERJ-2RKF82R5X	DIGIKEY	P82.5LCT-ND	XLNX_ADC_R0402
1	R389	820R	PANASONIC	ERJ-2RKF8200X	DIGIKEY	P820LCT-ND	XLNX_ADC_R0402
1	R403	24K9	PANASONIC	ERJ-2RKF2492X	DIGIKEY	P24.9KLCT-ND	XLNX_ADC_R0402
2	R405 R407	1K02	PANASONIC	ERJ-2RKF1021X	DIGIKEY	P1.02KLCT-ND	XLNX_ADC_R0402
1	R406	576R	PANASONIC	ERJ-2RKF5760X	DIGIKEY	P576LCT-ND	XLNX_ADC_R0402
2	R421 R424	40K2	PANASONIC	ERJ-2RKF4022X	DIGIKEY	P40.2KLCT-ND	XLNX_ADC_R0402

1	R429	1K96	PANASONIC	ERJ-2RKF1961X	DIGIKEY	P1.96KCT-ND	XLNX_ADC_R0402
1	R430	4K75	PANASONIC	ERJ-2RKF4751X	DIGIKEY	P4.75KCT-ND	XLNX_ADC_R0402
1	R439	1K78	PANASONIC	ERJ-2RKF1781X	DIGIKEY	P1.78KCT-ND	XLNX_ADC_R0402
3	R442 R522 R560	2R2	PANASONIC	ERJ-3RQF2R2V	DIGIKEY	P2.2AJCT-ND	XLNX_R0603
2	R444 R485	59K0	PANASONIC	ERJ-2RKF5902X	DIGIKEY	P59.0KCT-ND	XLNX_ADC_R0402
1	R446	51K1	PANASONIC	ERJ-2RKF5112X	DIGIKEY	P51.1KCT-ND	XLNX_ADC_R0402
2	R463 R490	360R	PANASONIC	ERJ-2RKF3600X	DIGIKEY	P360LCT-ND	XLNX_ADC_R0402
1	R477	1K74	PANASONIC	ERJ-2RKF1741X	DIGIKEY	P1.74KCT-ND	XLNX_ADC_R0402
3	R483 R498 R539	38K3	PANASONIC	ERJ-2RKF3832X	DIGIKEY	P38.3KCT-ND	XLNX_ADC_R0402
1	R487	40R2	PANASONIC	ERJ-2RKF40R2X	DIGIKEY	P40.2LCT-ND	XLNX_ADC_R0402
1	R501	200K	PANASONIC	ERJ-2RKF2003X	DIGIKEY	P200KCT-ND	XLNX_ADC_R0402
1	R504	549R	PANASONIC	ERJ-2RKF5490X	DIGIKEY	P549LCT-ND	XLNX_ADC_R0402
1	R510	21K5	PANASONIC	ERJ-2RKF2152X	DIGIKEY	P21.5KCT-ND	XLNX_ADC_R0402
4	R512 R526 R564 R577	9K53	PANASONIC	ERJ-2RKF9531X	DIGIKEY	P9.53KCT-ND	XLNX_ADC_R0402
1	R517	9K09	PANASONIC	ERJ-2RKF9091X	DIGIKEY	P9.09KCT-ND	XLNX_ADC_R0402
1	R521	6K19	PANASONIC	ERJ-2RKF6191X	DIGIKEY	P6.19KCT-ND	XLNX_ADC_R0402
1	R524	17K8	PANASONIC	ERJ-2RKF1782X	DIGIKEY	P17.8KCT-ND	XLNX_ADC_R0402
1	R554	1K18	PANASONIC	ERJ-2RKF1181X	DIGIKEY	P1.18KCT-ND	XLNX_ADC_R0402
1	R569	392R	PANASONIC	ERJ-2RKF3920X	DIGIKEY	P392LCT-ND	XLNX_ADC_R0402
2	R631 R632	50K	PANASONIC	ERJ-2RKF5002X	DIGIKEY	P50.0KCT-ND	XLNX_ADC_R0402
1	SW1	DIPSWITCH-4P	C&K	SDA04H15BD	DIGIKEY	CKN6068-ND	XLNX_SDA8
1	SW2	SPDT 6A 120V	C&K	1101M2S3AQE2	DIGIKEY	CKN5006-ND	XLNX_SLIDE_SWITCH
8	SW3-SW5 SW7-SW11	SPST-NO	E-switch	TL3301EF100Q2	DIGIKEY	EG5468TR-ND	XLNX_TL3301
1	SW6	DIPSWITCH-8P	C&K	SDA08H15BD	DIGIKEY	CKN6092-ND	XLNX_SDA16
4	T1-T4	ADT4-6WT	Mini-Circuits	ADT4-6WT	Mini-Circuits	ADT4-6WT	CDE36
3	T9-T11	MMBT3906	ON Semiconductor	MMBT3906	MOUSER	512-MMBT3906	SOT23
11	T12 T13 T16 T18-T21 T26-T29	MMBT3904	ON Semiconductor	MMBT3904	MOUSER	512-MMBT3904	SOT23
4	T14 T15 T24 T25	FDM58558	ON Semiconductor	FDM58558	DIGIKEY	FDM58558SCT-ND	XLNX_8PQFN
2	T22 T23	FDM58018	ON Semiconductor	FDM58018	DIGIKEY	FDM58018CT	XLNX_8PQFN
1	T30	SI7232DN-T1-GE3	VISHAY	SI7232DN-T1-GE3	MOUSER	781-SI7232DN-GE3	XLNX_ADC_PPAK1212-8
2	T31 T35	B5S138	Diodes Incorporated	B5S138-7-F	DIGIKEY	B5S138-FDICT-ND	XLNX_SOT23
3	T32-T34	NDS331N	ON Semiconductor	NDS331N	DIGIKEY	NDS331NTR-ND	XLNX_SOT23
104	TP1-TP104	S2751-46R	HARWIN	S2751-46R	MOUSER	855-S2751-46R	TP_HARWIN_S2751
1	U1	AD9694	Analog Devices	AD9694BCPZ-500	MOUSER	584-AD9694BCPZ-500	XLNX_ADC_LFCS72
1	U2	ADP5054	Analog Devices	ADP5054ACPZ-R7	MOUSER	584-ADP5054ACPZ-R7	XLNX_ADC_QFN48
2	U3 U5	ADP1762	Analog Devices	ADP1762ACPZ-R7	MOUSER	584-ADP1762ACPZ-R7	XLNX_ADC_LFCS16
1	U4	XCZU5CG_FBVB900					XLNX_FBVB900
3	U6 U47 U48	ADP7158-1.8V	Analog Devices	ADP7158ACPZ-1.8-R7	MOUSER	584-ADP7158ACPZ1.8R7	XLNX_ADC_LFCS10
1	U7	ADP151-1.8V	Analog Devices	ADP151ACPZ-1.8-R7	MOUSER	584-ADP151ACPZ-1.8R7	XLNX_ADC_LFCS6
1	U8	DP83867IR	Texas Instruments	DP83867IRPAPT	DIGIKEY	296-41117-1-ND	XLNX_PQFP64EP
1	U9	NUD3105DMT1G	ON Semiconductor	NUD3105DMT1G	MOUSER	863-NUD3105DMT1G	XLNX_SOT23-6
1	U10	ADP7158-2.5V	Analog Devices	ADP7158ACPZ-2.5-R7	MOUSER	584-ADP7158ACPZ2.5R7	XLNX_ADC_LFCS10
1	U11	ADP7118-1.8V	Analog Devices	P7118ACPZ1.8R7	MOUSER	584-P7118ACPZ1.8R7	XLNX_ADC_LFCS6
3	U12 U14 U46	MT40A256M16GE	MICRON TECHNOLOGY	MT40A256M16GE-075E:B	DIGIKEY	MT40A256M16GE-075E:B-ND	XLNX_MT40A256M16GE_FANOUT
1	U13	MAX16052TE+	MAXIM	MAX16052AUT+T	DIGIKEY	MAX16052AUT+TCT-ND	XLNX_SOT23-6
1	U15	HX5008FNL	PULSE ELECTRONIC	HX5008FNL	MOUSER	673-HX5008FNL	XLNX_HX5008FNL
1	U16	REF3012 - 1.25V	Texas Instruments	REF3012AIDBZT	DIGIKEY	REF3012AIDBZTCT-ND	XLNX_SOT23
1	U17	NC7WZ07	Texas Instruments	NC7WZ07P6X	DIGIKEY	NC7WZ07P6XCT-ND	XLNX_SC70-6
1	U18	ICM_SMT_360	TRIMBLE	ICM_SMT_360			GPS_ICM_SMT_360
4	U19 U21 U22 U42	SN74AVC1T45	Texas Instruments	SN74AVC1T45DCKR	DIGIKEY	296-17992-2-ND	XLNX_SC70-6
1	U20	MAX16025TE+	MAXIM	MAX16025TE+	DIGIKEY	MAX16025TE+-ND	XLNX_TQFN16
1	U23	DIGILENT_USB_JTAG	DIGILENT	410-308	DIGIKEY	1286-1048-ND	XLNX_DIG_JTAG
1	U24	SN74AVC4T245	Texas Instruments	SN74AVC4T245RSVR	DIGIKEY	296-24366-2-ND	XLNX_UFQFN16
1	U25	EEPROM M24C08	ST MicroElectronics	M24C08-WDW6TP	DIGIKEY	497-8638-1-ND	XLNX_TSSOP_65
3	U26-U28	FXLA104	Fairchild	FXLA104UM12X	MOUSER	512-FXLA104UM12X	XLNX_ADC_UMLP12
2	U29 U30	MT25QU512	MICRON TECHNOLOGY	MT25QU512ABB8SEF-OSIT	DIGIKEY	MT25QU512ABB8SEF-OSIT-ND	XLNX_MT25QU512
2	U31 U32	TP551200DRCT	Texas Instruments	TP551200DRCT	DIGIKEY	296-23830-1-ND	XLNX_SON10_TP551200
1	U33	SIS340	Silicon labs	SIS340A-D-GM	MOUSER	634-SIS340A-D-GM-ND	QFN44
1	U34	PCA9306	Texas Instruments	PCA9306DCTR	DIGIKEY	296-18509-2-ND	XLNX_MSOP8
1	U35	CD40109B	Texas Instruments	CD40109BPWR	MOUSER	595-CD40109BPWR	TSSOP-16
1	U36	CD4013B	Texas Instruments	CD4013BPWR	MOUSER	595-CD4013BPWR	TSSOP-14
2	U37 U40	TL7712AIDR	Texas Instruments	TL7712AIDR	MOUSER	595-TL7712AIDR	SOIC8
1	U38	BU4581G2	ROHM	BU4581G2-TR	MOUSER	755-BU4581G2-TR	SSOP5
1	U39	BU4571G2	ROHM	BU4571G2-TR	DIGIKEY	BU4571G2CT-ND	SSOP5
2	U41 U43	SN74LVC1G08	Texas Instruments	SN74LVC1G08DCKR	DIGIKEY	296-11602-2-ND	XLNX_SC70-5
2	U44 U45	TXB0106	Texas Instruments	TXB0106PWR	FARNELL	1694679	TSSOP-16
6	U49 U63 U66 U83 U85 U93	MAX8869EUE18+	MAXIM	MAX8869EUE18+ MAX8892EXX+T MAX8892EXX+T	DIGIKEY	MAX8869EUE18+-ND	XLNX_TSSOP16_EP
7	U50 U71 U73 U75 U77 U81 U91	MAX15303	MAXIM	MAX15303AA00+CM	DIGIKEY	MAX15303AA00+CM-ND	XLNX_TQFN40_EP
2	U51 U55	VT16975BFQX	MAXIM	VT16975BFQX	DIGIKEY	VT16975BFQXCT-ND	XLNX_16FCQFN
2	U52 U54	MAX20751	MAXIM	MAX20751EKX+	DIGIKEY	MAX20751EKX+-ND	XLNX_QFN36
2	U64 U65	MAX15027	MAXIM	MAX15027ATB+T	DIGIKEY	MAX15027ATB+T	XLNX_TDFN10_EP
3	U68 U79 U88	MAX15301	MAXIM	MAX15301AA02+CIK	DIGIKEY	MAX15301AA02+CIK-ND	XLNX_TQFN32_EP
1	U89	FDPC8011S	ON Semiconductor	FDPC8011S	DIGIKEY	FDPC8011SFSCT-ND	XLNX_PWRCLIP33
1	X1	25.00 MHz 50ppm	Abracon	ABM8-25.000MHZ-B2-T	DIGIKEY	535-9140-2-ND	XLNX_ABM8
1	X2	32.768 KHz 20ppm	TXC corp	9HT10-32.768KHZ-F	DIGIKEY	887-1504-1-ND	XLNX_TXC_9HT10
1	X3	48.000MHz 10ppm	TXC	7M48072002	DIGIKEY	887-2480-2-ND	XLNX_45MMD