

P1071: GF108, 1024MB x16 DDR3, DVI+HDMI+VGA

- V230-4.0
- 1.Base on P1071-A01 sku2 to modify
 - 2.Page 10 add EMI bridge resister
 - 3.Page 11 add EMI bridge resister ,removed DP
 - 4.Page 13 Removed JTAG,INFOROM
 - 5.Page 14 Removed 4pin fan circuit
 - 6.Page 15 a.12V 5V change to RC1117
b.FBVDD PEXVDD change to UP7706
c. Removed 3V3_FUSE
 - 7.Page 16 change L2 to green choke
 - 8.Page 17 change power solution to UP6205 and add UP6262

- Page 1: Overview
- Page 2: Board Block Diagram
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- Page 16: Power Supply II: FBVDDQ
- Page 17: Power Supply III: NVVDD

REV	VARIANT	NVPIN	ASSEMBLY
B	BASE	600-11071-BASE-SCH	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO. STUFF ASSEMBLY NOTES AND BOM NOT FINAL
1	SKU0001	600-11071-0001-100	GF108-300-A1 625/1250/900MHz 1024MB/128MB DDR3, DVI-DL+HDMI+VGA
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PAGE DETAIL	Overview

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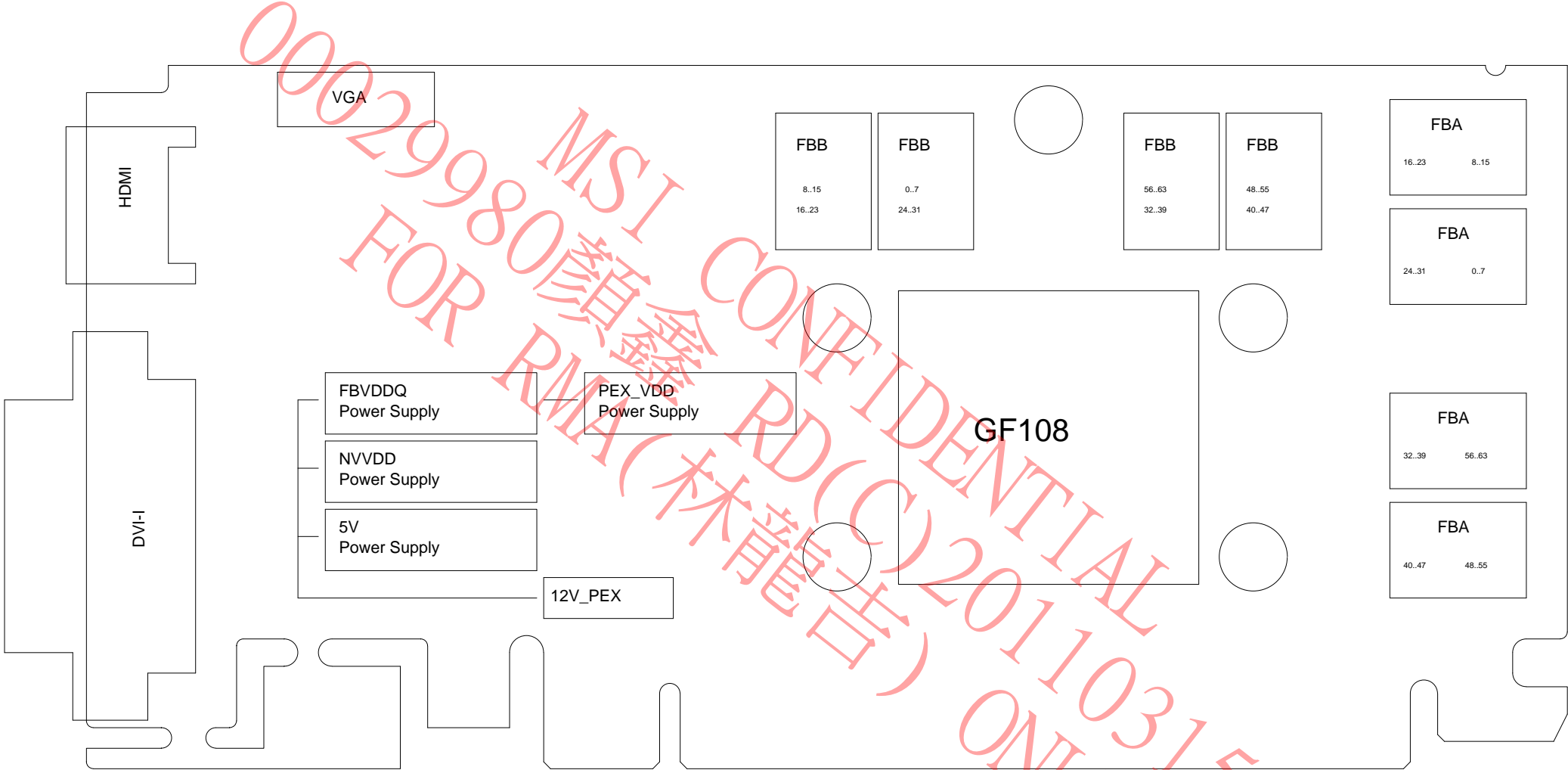
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Block Diagram

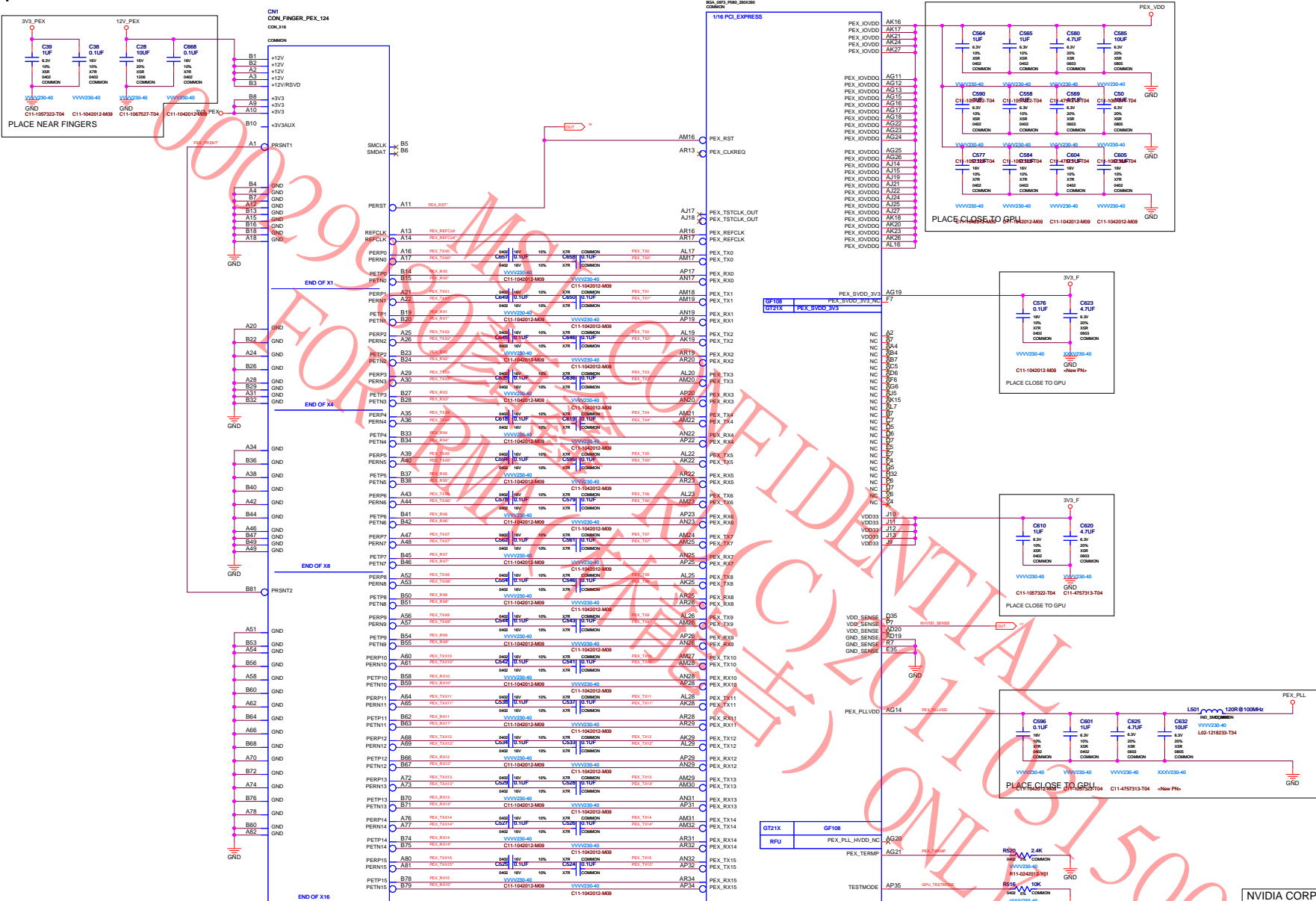


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PCI Express Interface



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APPLY

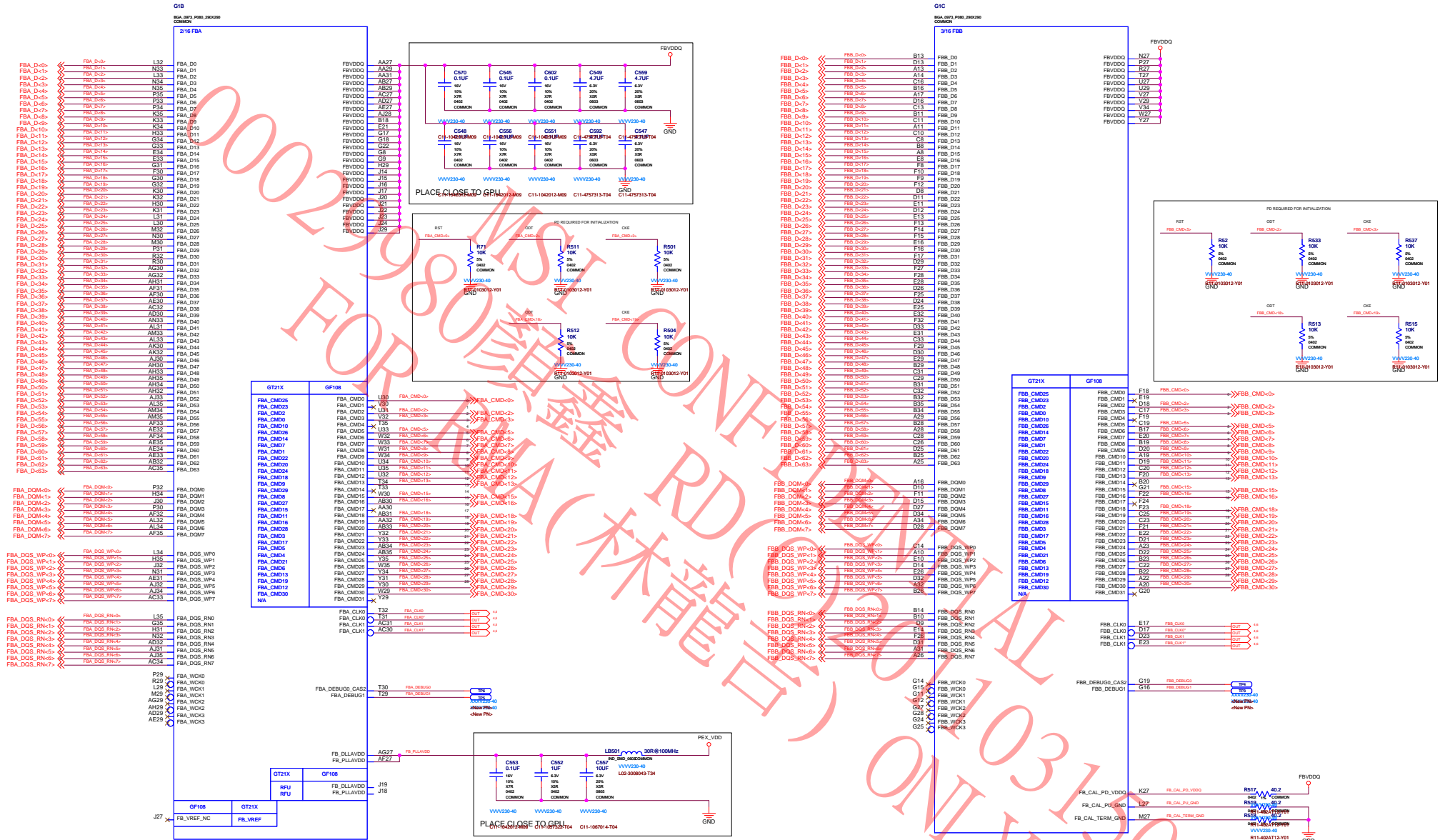
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GPU Frame Buffer



APPLY

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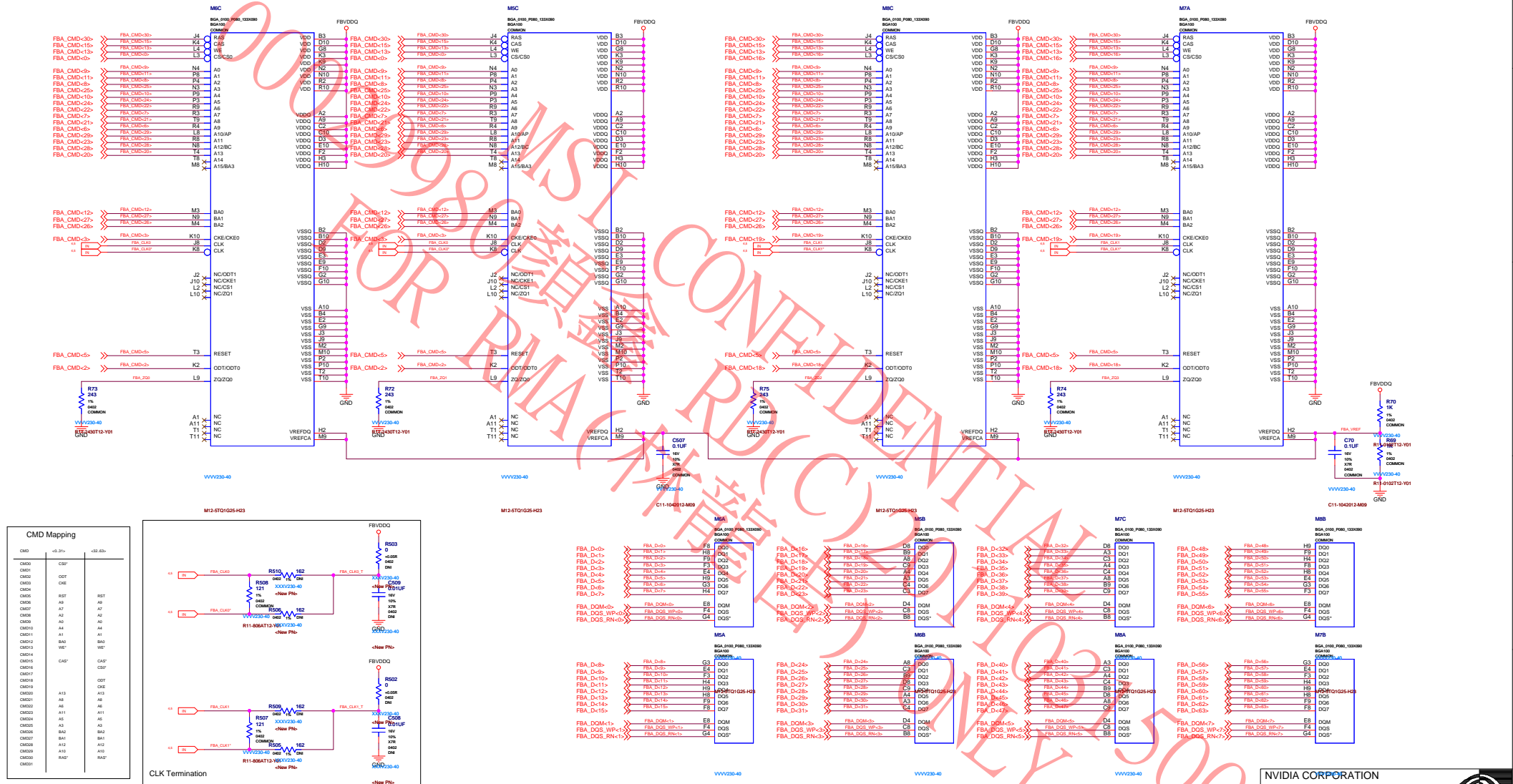
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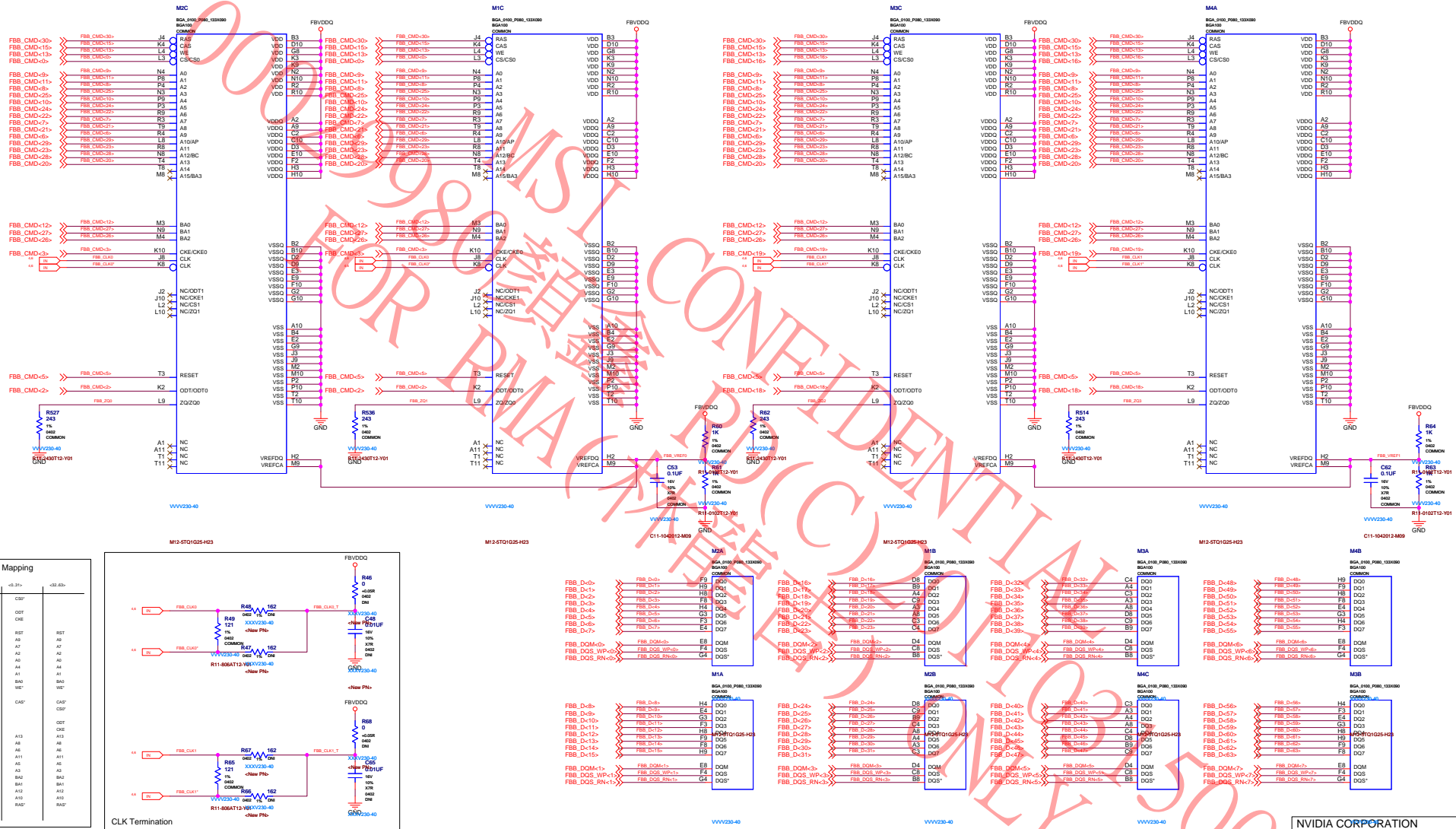
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FBA Partition



FBB Partition



CMD Mapping		
CMD	<31>	<32,63>
CMD00	CS0?	
CMD01		
CMD02	OOT	
CMD03	CNE	
CMD04		
CMD05	RST	RST
CMD06	A0	A0
CMD07	A1	A1
CMD08	A2	A2
CMD09	A0	A0
CMD10	A1	A1
CMD11	A1	A1
CMD12	BA0	BA0
CMD13	WE?	WE?
CMD14		
CMD15	CAS?	CAS?
CMD16		CS0?
CMD17		
CMD18		OOT
CMD19		CNE
CMD20	A13	A13
CMD21	A0	A0
CMD22	A6	A6
CMD23	A11	A11
CMD24	A5	A5
CMD25	A2	A2
CMD26	BA2	BA2
CMD27	BA1	BA1
CMD28	A12	A12
CMD29	A10	A10
CMD30	RA0?	RA0?
CMD31		

Figure 10 shows two circuit diagrams for clock termination. The top diagram illustrates termination for FBVDDQ, featuring a 150Ω resistor (R48) in series with the clock signal line, followed by a 121Ω resistor (R49) and a 150Ω resistor (R47) to ground. The bottom diagram illustrates termination for FBVDDQ, featuring a 150Ω resistor (R67) in series with the clock signal line, followed by a 121Ω resistor (R65) and a 150Ω resistor (R66) to ground. Both diagrams include a 150Ω resistor (R46/R66) in series with the clock signal line.

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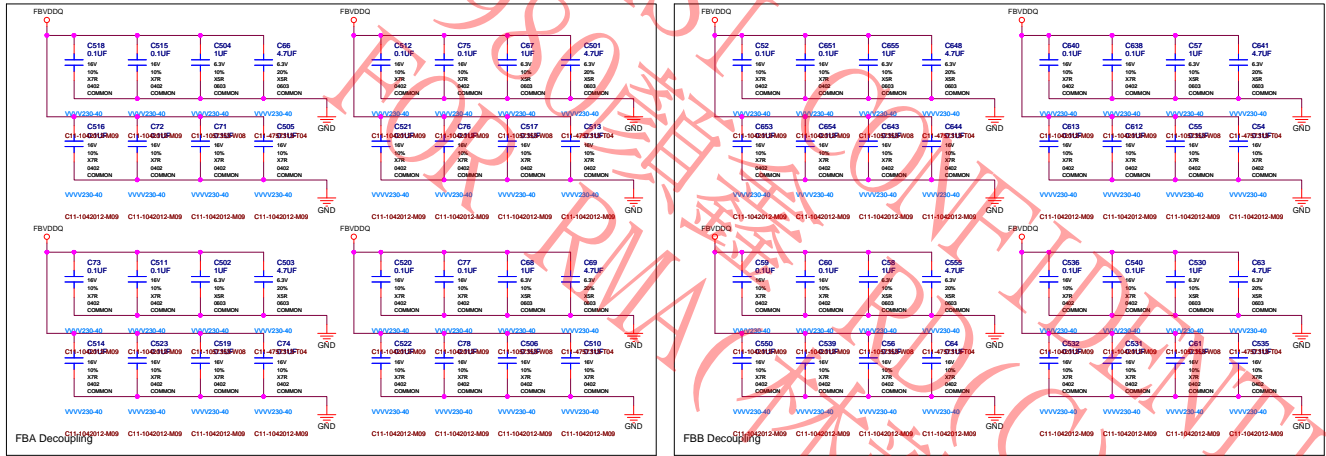
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Memory Decoupling



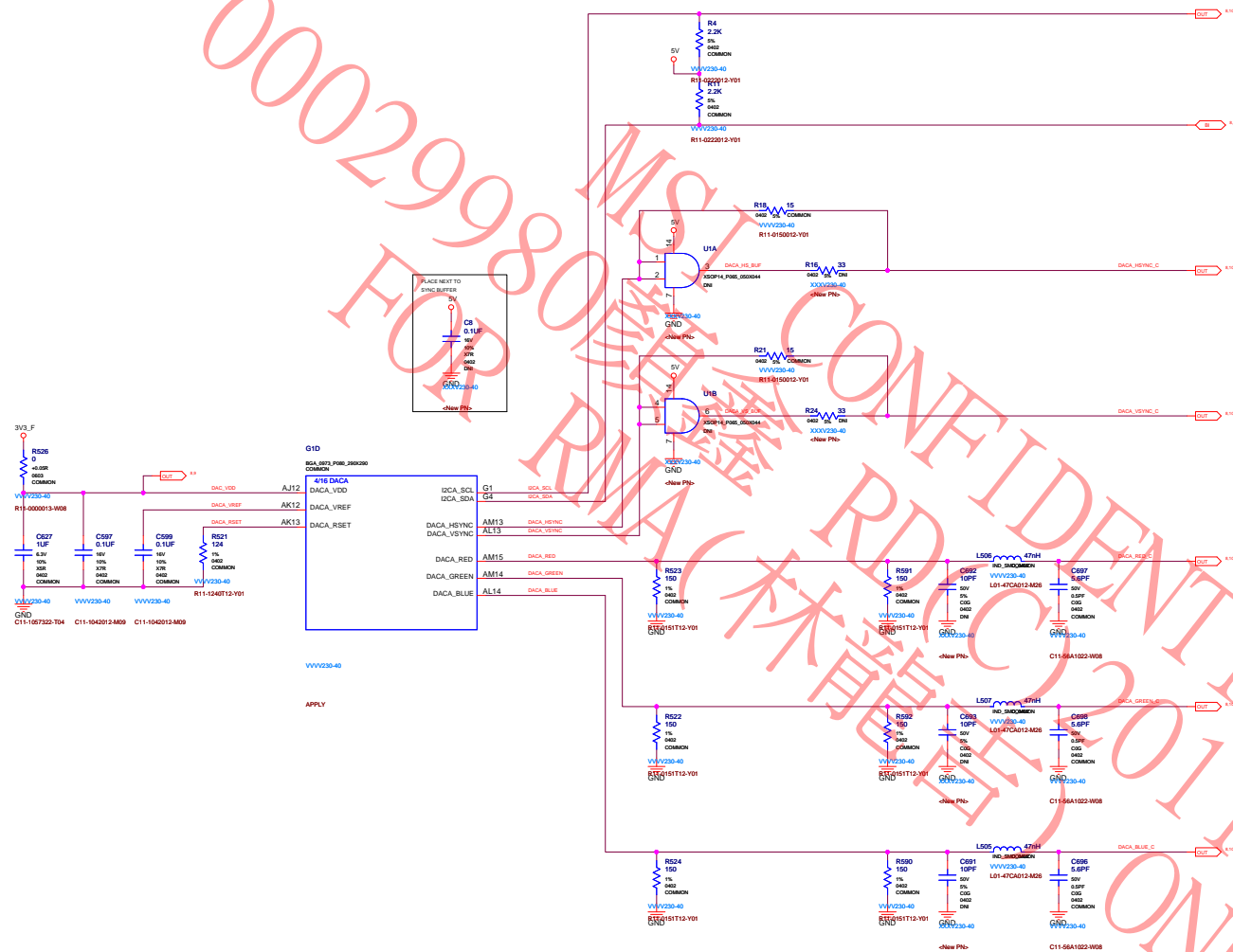
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DACA VGA



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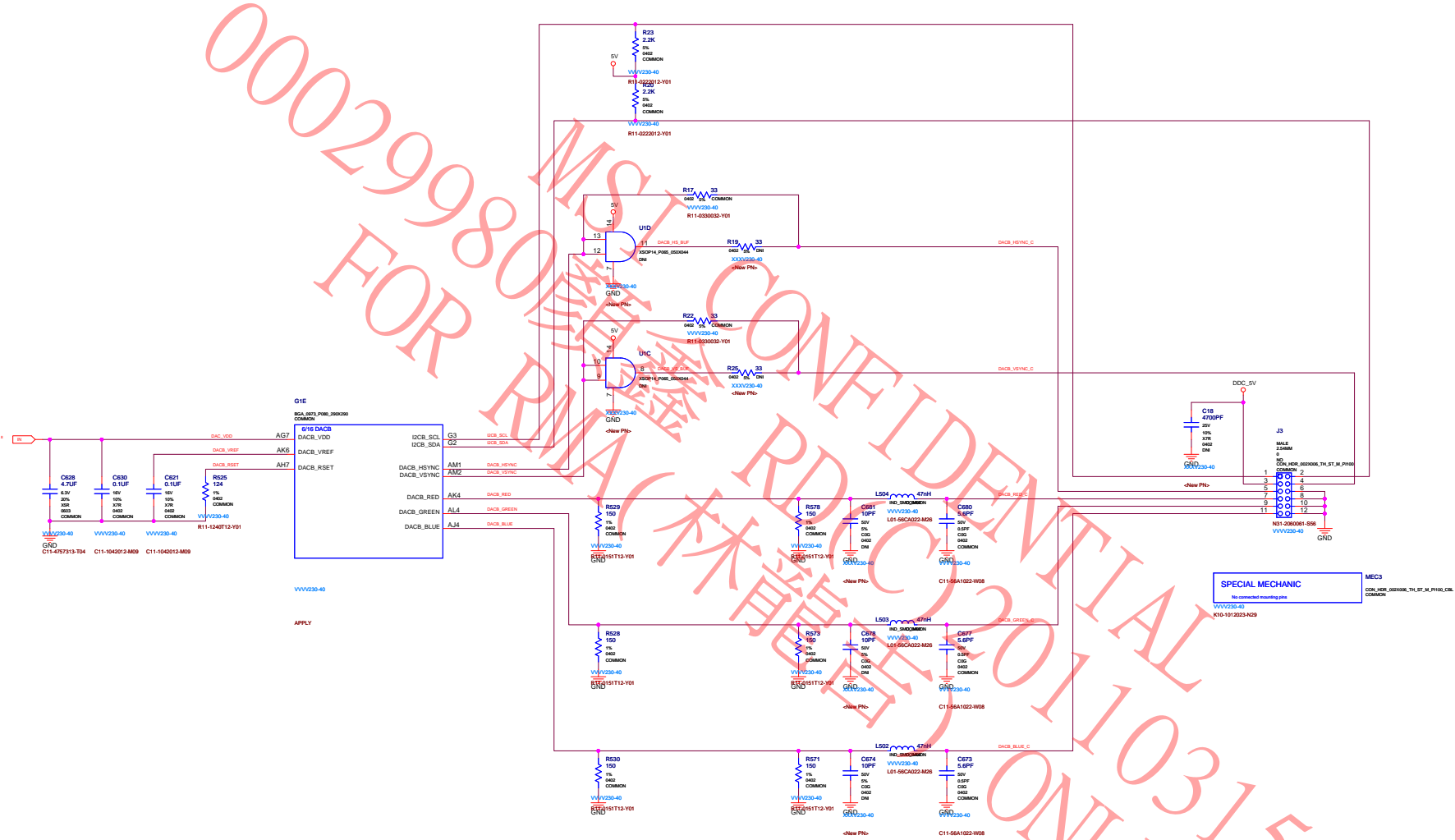
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DACB VGA Header

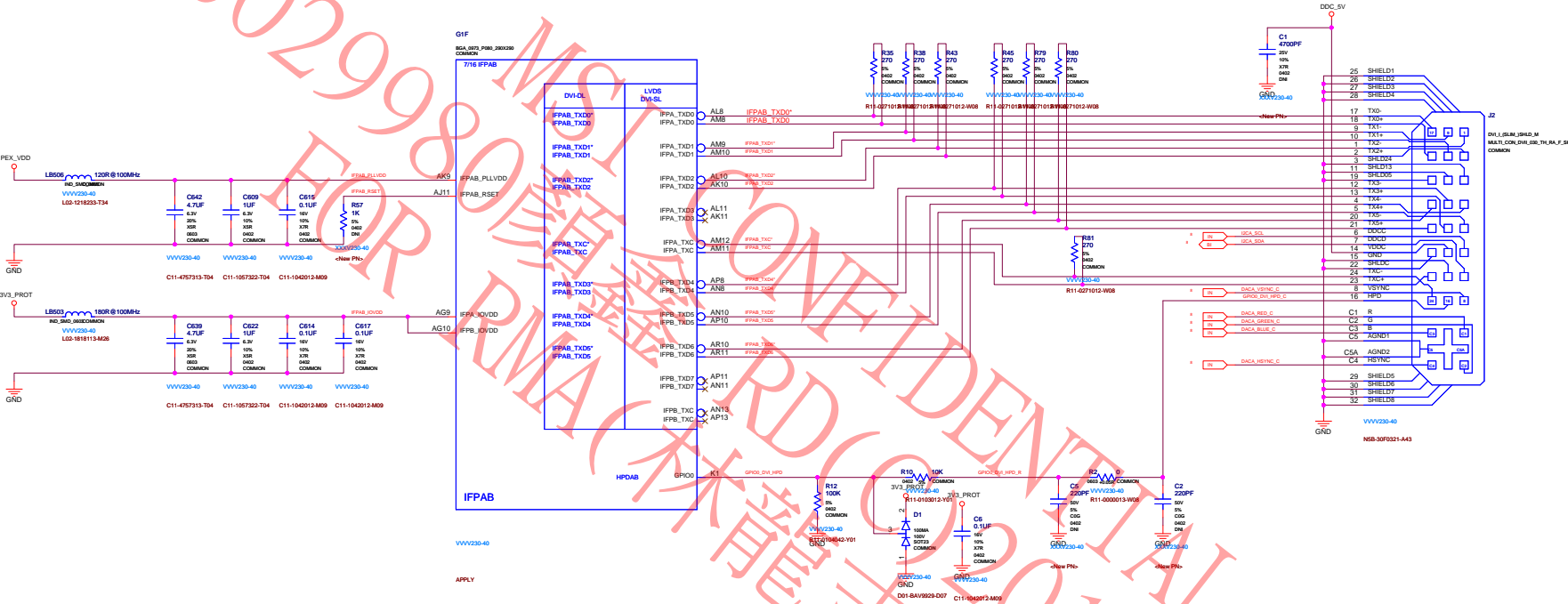


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PAGE DETAIL	DACB VGA Header

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TMDS Interface

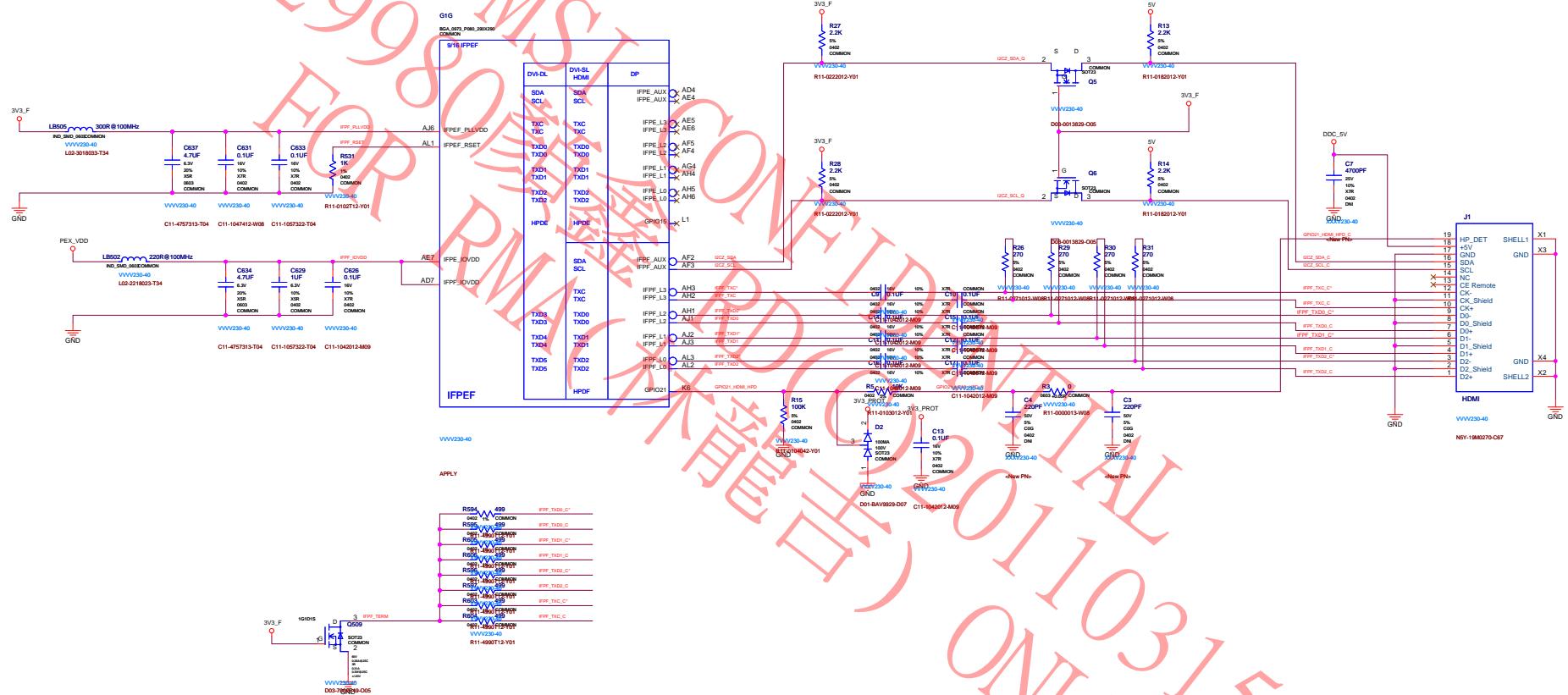


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PAGE DETAIL	TMDS Interface

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HDMI Interface



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PAGE DETAIL	HDMI Interface

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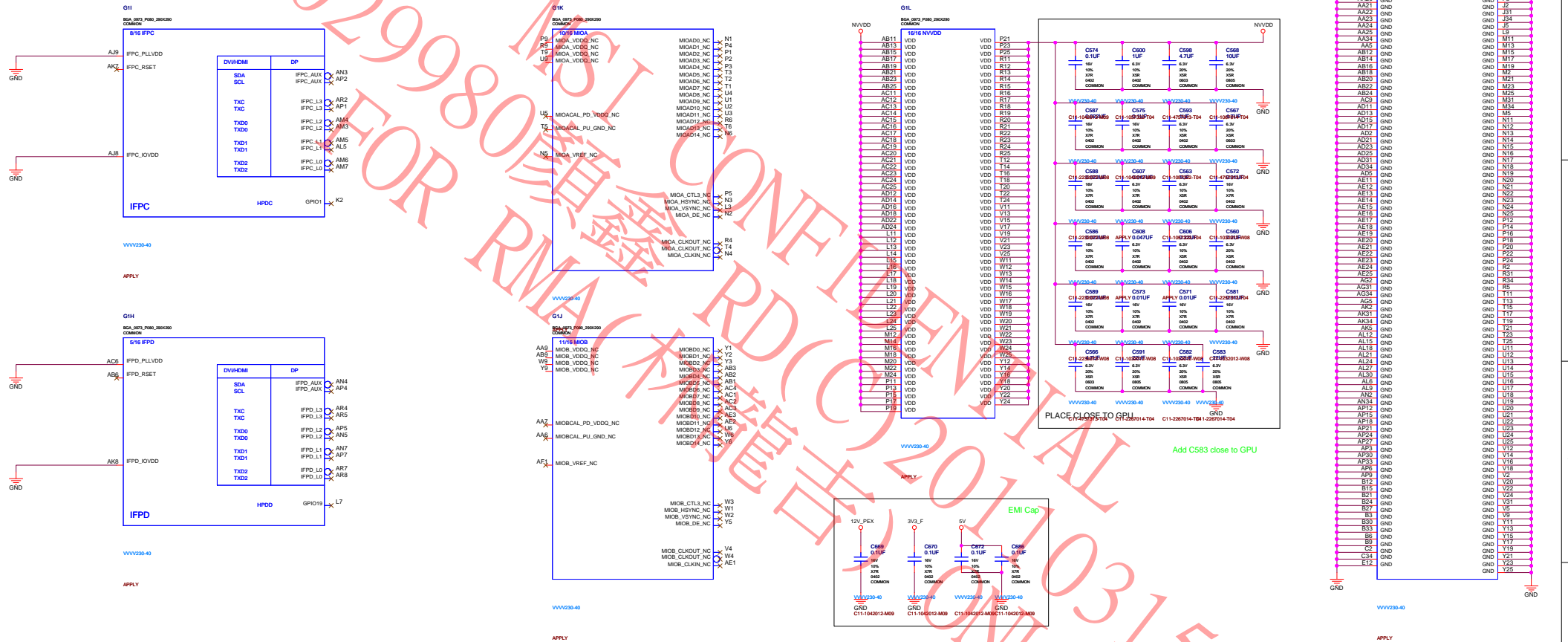
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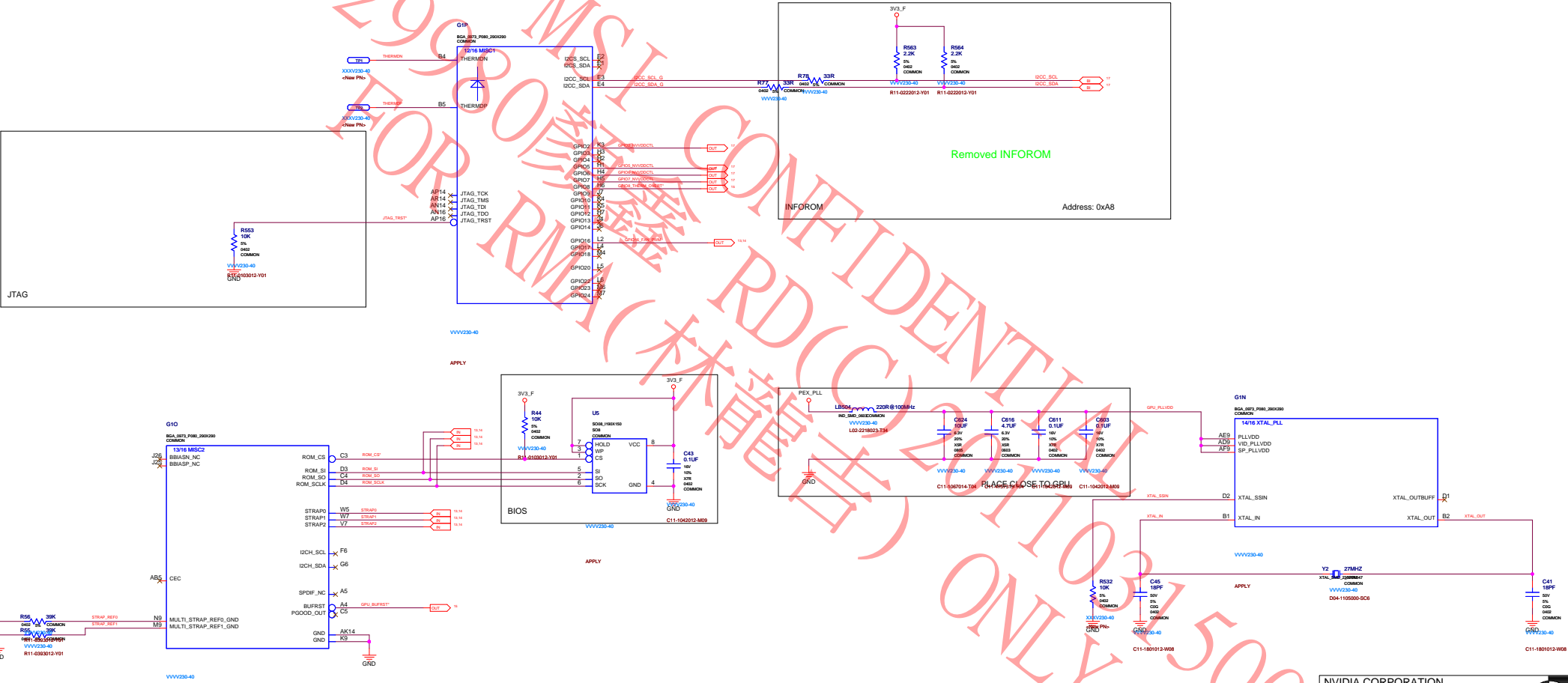
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Unused Interfaces, NVVDD Decoupling



XTAL, ROM, JTAG, Misc

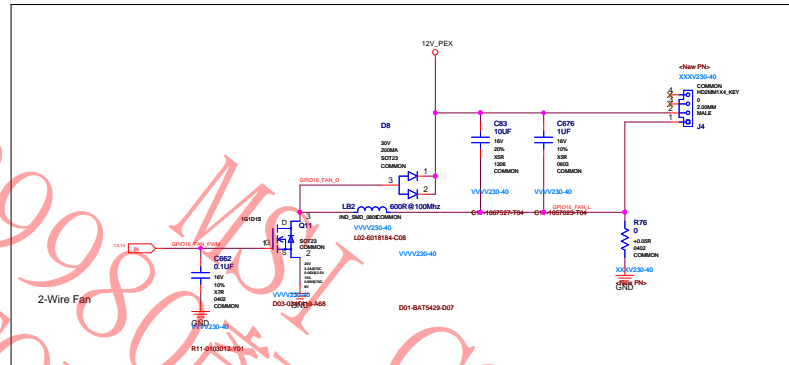


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PAGE DETAIL	XTAL, ROM, JTAG, Misc

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Straps, Thermal, Mechanical

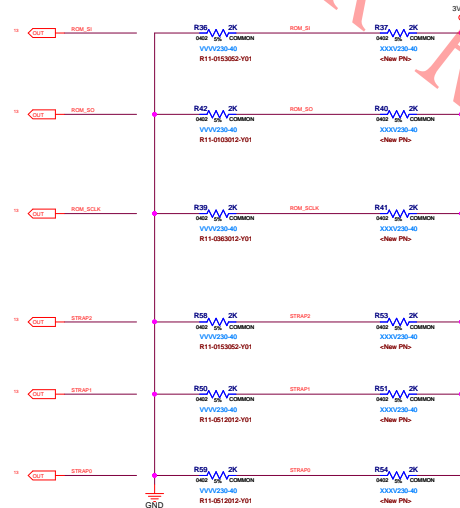
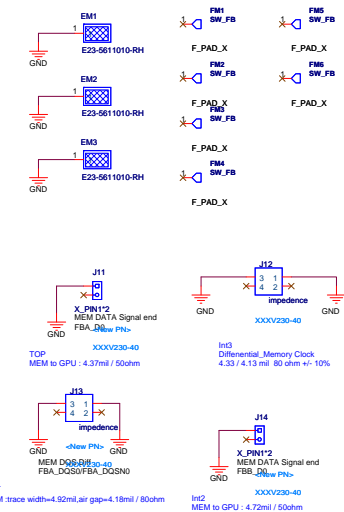
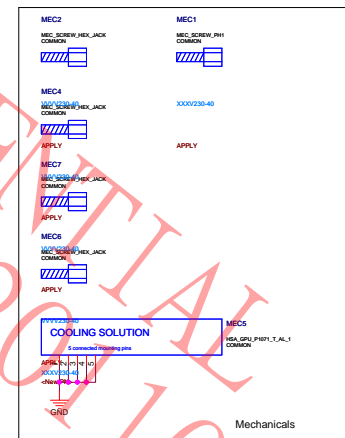


Removed 4 pin fan circuit

4-Wire Fan

~~GF108 Straps~~

Bit Signal	Values
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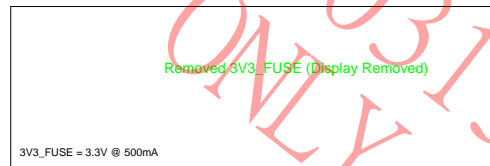
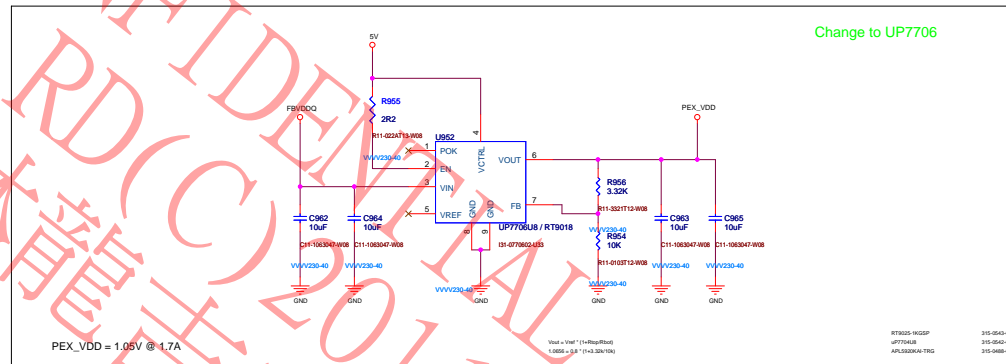
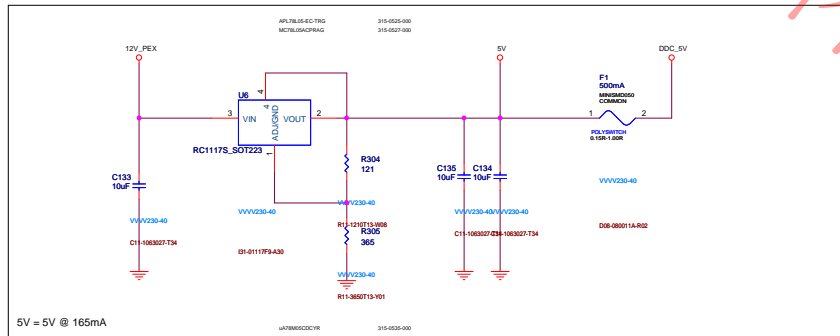
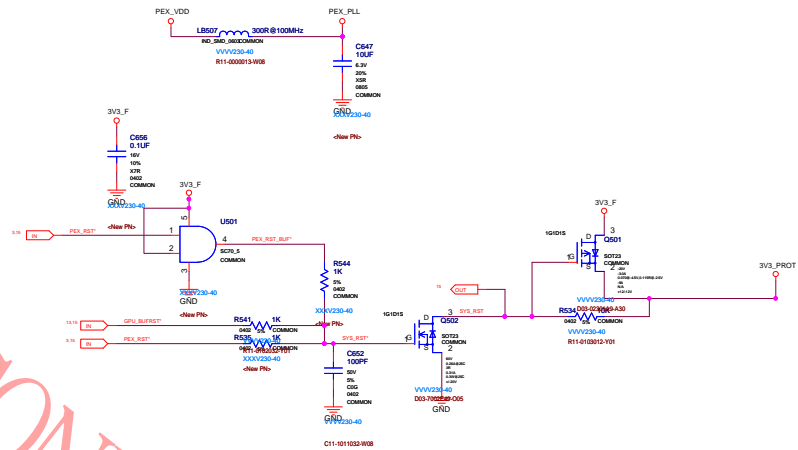
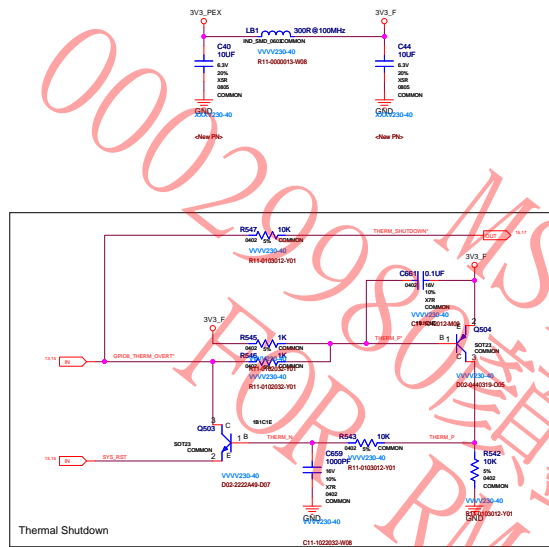
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Power Supply I: Misc Power, Thermal Shutdown

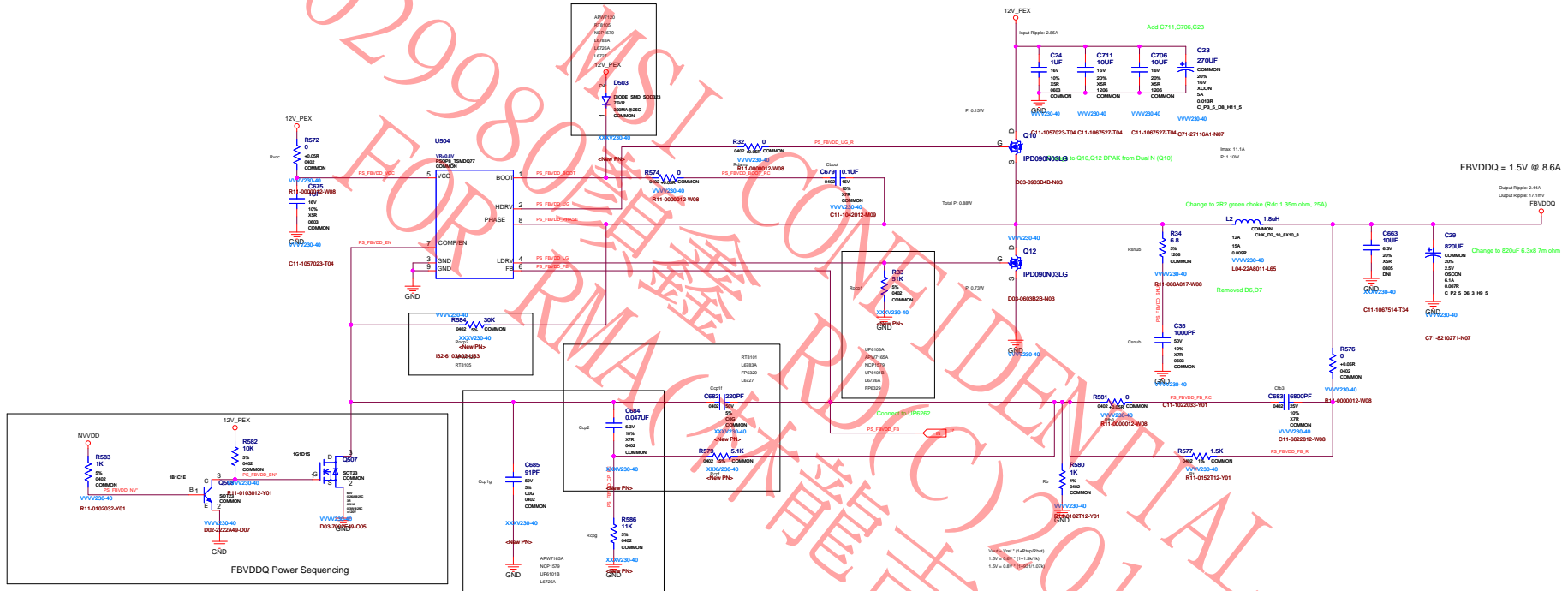


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Power Supply II: FBVDDQ



PS	Freq
LP6103A	300kHz
APW7120	300kHz
AD9171ESA	300kHz
RT8105	300kHz
ACP1579	275kHz
RT8101	300kHz
LP6101B	300kHz
L6733A	300kHz
L6726A	270kHz
FP6329	300kHz
L6727	300kHz

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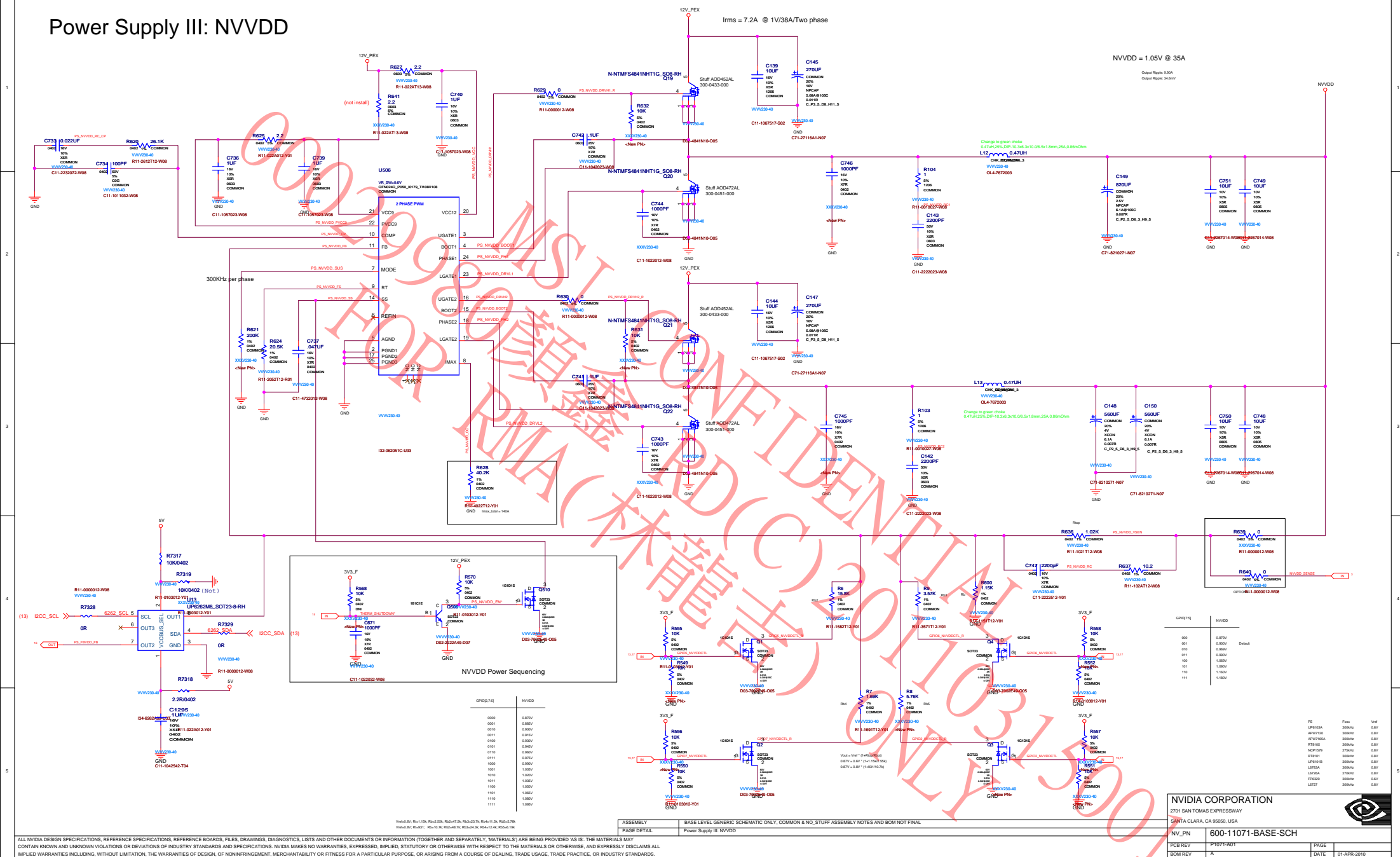


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Power Supply III: NVVDD



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A		B		C		D		E		F		G		H	
Title: Cvd Part		C504 (7.28)		C505 (3.20)		D7 (16.37)		R8 (17.47)		R523 (8.40)		U505 (17.30)			
Report: p1071_001		C506 (7.28)		C506 (7.30)		D8 (14.20)		R9 (14.45)		R524 (8.50)		Y1 (13.50)			
Date: Mar 31		C506 (7.30)		C507 (12.37)		D501 (14.20)		R10 (10.40)		R525 (8.38)		Y2 (13.50)			
141050 2010		C507 (5.40)		C508 (12.37)		D502 (13.10)		R11 (8.20)		R526 (8.34)					
		C508 (5.50)		C509 (10.38)		D503 (16.30)		R12 (10.40)		R527 (8.34)					
		C509 (14.40)		C510 (7.30)		D510 (17.37)		R13 (10.40)		R528 (8.40)					
		C510 (7.30)		C511 (13.40)		F1 (16.40)		R14 (11.37)		R529 (8.40)					
		BKT1 (14.49)		C511 (7.30)		G1 (3.30)		R15 (11.40)		R530 (8.50)					
		C1 (10.37)		C512 (7.30)		G1 (4.37 4.38)		R16 (8.20)		R531 (11.30)					
		C2 (14.49)		C513 (7.30)		G1 (7.30)		R17 (8.20)		R532 (13.38)					
		C3 (11.49)		C514 (7.34)		G1 (9.30)		R18 (8.20)		R533 (4.34)					
		C4 (11.49)		C515 (7.28)		G1 (10.30)		R19 (8.20)		R534 (15.30)					
		C5 (10.40)		C516 (10.30)		G1 (11.30)		R20 (8.20)		R535 (15.37)					
		C6 (11.38)		C517 (7.30)		G1 (12.38 12.38)		R21 (8.20)		R536 (8.30)					
		C7 (11.30)		C518 (7.28)		J8 (12.20 12.40)		R22 (8.30)		R537 (8.34)					
		C8 (8.30)		C519 (7.38)		J2.39 (12.48)		R23 (8.10)		R538 (13.28)					
		C9 (11.38)		C520 (7.30)		G1 (13.30 13.30)		R24 (8.30)		R539 (13.28)					
		C10 (11.38)		C521 (7.30)		J2.39 (13.40)		R25 (8.30)		R540 (13.28)					
		C11 (11.38)		C522 (7.30)		J1 (11.39)		R26 (16.37)		R541 (16.37)					
		C12 (11.38)		C523 (7.38)		J2 (10.30)		R27 (11.30)		R542 (15.30)					
		C13 (11.40)		C524 (13.44)		J3 (9.30)		R28 (11.30)		R543 (15.30)					
		C14 (11.38)		C525 (10.30)		J4 (14.29)		R29 (17.37)		R544 (16.37)					
		C15 (11.38)		C526 (10.30)		J8 (14.29)		R30 (15.44)		R545 (15.30)					
		C16 (11.38)		C527 (5.50)		J6 (13.27)		R31 (15.40)		R546 (15.20)					
		C17 (11.40)		C528 (5.50)		J7 (11.49)		R32 (16.20)		R547 (15.20)					
		C18 (8.37)		C529 (5.50)		J201 (13.24)		R33 (16.30)		R548 (15.28)					
		C19 (15.40)		C530 (11.38)		L1 (11.37)		R34 (17.40)		R549 (17.40)					
		C20 (15.40)		C531 (7.30)		L2 (16.37)		R35 (15.40)		R550 (17.50)					
		C21 (17.37)		C532 (7.30)		L3 (17.27)		R36 (14.38)		R551 (17.50)					
		C22 (17.17)		C533 (4.40)		L507 (16.27)		R37 (14.30)		R552 (17.40)					
		C23 (15.40)		C534 (17.38)		L508 (8.40)		R38 (16.40)		R553 (13.28)					
		C24 (16.20)		C535 (7.37)		L509 (9.50)		R39 (14.40)		R554 (13.28)					
		C25 (17.20)		C536 (11.38)		L510 (14.40)		R40 (14.30)		R555 (17.40)					
		C26 (17.17)		C537 (7.20)		L511 (9.30)		R41 (14.40)		R556 (17.50)					
		C27 (17.10)		C538 (10.30)		L512 (14.40)		R42 (14.38)		R557 (17.50)					
		C28 (3.18)		C539 (7.30)		L508 (8.30)		R43 (15.40)		R558 (17.40)					
		C29 (16.30)		C540 (7.37)		L507 (9.40)		R44 (15.30)		R559 (14.50)					
		C30 (16.34)		C541 (4.40)		L81 (15.10)		R45 (15.40)		R560 (14.50)					
		C31 (17.34)		C542 (8.40)		L802 (8.40)		R46 (14.40)		R561 (13.30)					
		C32 (17.34)		C543 (4.40)		L801 (8.40)		R47 (8.40)		R562 (13.10)					
		C33 (17.30)		C544 (4.40)		L802 (11.38)		R48 (8.48)		R563 (13.10)					
		C34 (17.30)		C545 (4.10)		L803 (10.38)		R49 (8.48)		R564 (13.10)					
		C35 (16.40)		C546 (13.40)		L804 (13.40)		R50 (14.30)		R565 (14.40)					
		C36 (16.40)		C547 (7.20)		L805 (11.38)		R51 (15.40)		R566 (14.20)					
		C37 (15.40)		C548 (4.10)		L806 (10.28)		R52 (14.40)		R567 (14.20)					
		C38 (3.14)		C549 (4.10)		L807 (15.10)		R53 (14.40)		R568 (17.40)					
		C39 (3.14)		C550 (7.20)		L808 (14.40)		R54 (14.40)		R569 (17.40)					
		C40 (16.18)		C551 (4.10)		L809 (14.40)		R55 (13.40)		R570 (17.40)					
		C41 (13.50)		C552 (4.50)		M2 (8.40 8.20)		R56 (15.40)		R571 (8.50)					
		C42 (16.40)		C553 (4.50)		6.57		R57 (16.30)		R572 (16.30)					
		C43 (13.38)		C554 (7.20)		M3 (8.37 8.40)		R58 (16.30)		R573 (16.30)					
		C44 (13.10)		C555 (10.30)		6.91		R59 (14.30)		R574 (16.30)					
		C45 (13.88)		C556 (4.10)		6.96		R60 (14.30)		R575 (16.30)					
		C46 (15.40)		C557 (4.50)		M4 (8.40 8.20)		R61 (14.30)		R576 (16.30)					
		C47 (15.40)		C558 (3.17)		6.50		R62 (16.30)		R577 (16.30)					
		C48 (8.40)		C559 (4.10)		M5 (8.40 8.20)		R63 (14.30)		R578 (8.40)					
		C49 (15.40)		C560 (12.30)		M6 (15.20)		R64 (8.34)		R579 (16.40)					
		C50 (3.10)		C561 (3.30)		M7 (8.40 8.20)		R65 (8.38)		R580 (16.40)					
		C51 (15.40)		C562 (3.30)		M8 (15.20)		R66 (8.38)		R581 (16.40)					
		C52 (7.20)		C563 (12.30)		M9 (15.20)		R67 (8.38)		R582 (16.40)					
		C53 (8.40)		C564 (3.17)		M10 (15.20)		R68 (8.38)		R583 (16.40)					
		C54 (7.37)		C565 (3.17)		M11 (15.20)		R69 (8.38)		R584 (16.40)					
		C55 (7.37)		C566 (12.40)		M12 (15.20)		R70 (14.20)		R585 (16.40)					
		C56 (7.30)		C567 (12.30)		M13 (15.20)		R71 (14.20)		R586 (16.40)					
		C57 (7.20)		C568 (12.30)		M14 (15.20)		R72 (14.20)		R587 (16.40)					
		C58 (7.30)		C569 (3.17)		M15 (15.20)		R73 (14.20)		R588 (16.40)					
		C59 (7.30)		C570 (12.30)		M16 (15.20)		R74 (14.20)		R589 (16.40)					
		C60 (7.30)		C571 (12.30)		M17 (15.20)		R75 (14.20)		R590 (16.40)					
		C61 (7.30)		C572 (12.30)		M18 (15.20)		R76 (14.20)		R591 (16.40)					
		C62 (8.40)		C573 (12.30)		M19 (15.20)		R77 (14.20)		R592 (16.40)					
		C63 (8.40)		C574 (12.30)		M20 (15.20)		R78 (14.20)		R593 (16.40)					
		C64 (8.40)		C575 (12.30)		M21 (15.20)		R79 (14.20)		R594 (16.40)					
		C65 (8.50)		C576 (3.17)		M22 (15.20)		R80 (14.20)		R595 (16.40)					
		C66 (7.28)		C577 (3.17)		M23 (15.20)		R81 (14.20)		R596 (16.40)					
		C67 (7.28)		C578 (3.17)		M24 (15.20)		R82 (14.20)		R597 (16.40)					
		C68 (7.28)		C579 (3.17)		M25 (15.20)		R83 (14.20)		R598 (16.40)					
		C69 (7.28)		C580 (3.17)		M26 (15.20)		R84 (14.20)		R599 (16.40)					
		C70 (7.28)		C581 (12.30)		M27 (15.20)		R85 (14.20)		R600 (16.40)					
		C71 (7.28)		C582 (12.30)		M28 (15.20)		R86 (14.20)		R601 (16.40)					
		C72 (7.28)		C583 (12.30)		M29 (15.20)		R87 (14.20)		R602 (16.40)					
		C73 (7.34)		C584 (3.17)		M30 (15.20)		R88 (14.20)		R603 (16.40)					
		C74 (7.34)		C585 (3.17)		M31 (15.20)		R89 (14.20)		R604 (16.40)					
		C75 (7.34)		C586 (3.17)		M32 (15.20)		R90 (14.20)		R605 (16.40)					
		C76 (7.34)		C587 (3.17)		M33 (15.20)		R91 (14.20)		R606 (16.40)					
		C77 (7.34)		C588 (3.17)		M34 (15.20)		R92 (14.20)		R607 (16.40)					
		C78 (7.34)		C589 (3.17)		M35 (15.20)		R93 (14.20)		R608 (16.40)					
		C79 (7.34)		C590 (3.17)		M36 (15.20)		R94 (14.20)		R609 (16.40)					
		C80 (7.34)		C591 (3.17)		M37 (15.20)		R95 (14.20)		R610 (16.40)					
		C81 (7.34)		C592 (3.17)		M38 (15.20)		R96 (14.20)		R611 (16.40)					
		C82 (7.34)		C593 (3.17)		M39 (15.20)		R97 (14.20)		R612 (16.40)					
		C83 (7.34)		C594 (3.17)		M40 (15.20)		R98 (14.20)		R613 (16.40)					
		C84 (7.34)		C595 (3.17)		M41 (15.20)		R99 (14.20)		R614 (16.40)					
		C85 (7.34)		C596 (3.17)		M42 (15.20)		R100 (14.20)		R615 (16.40)					
		C86 (7.34)		C597 (3.17)		M43 (15.20)		R101 (14.20)		R616 (16.40)					
		C87 (7.34)		C598 (3.17)		M44 (15.20)		R102 (14.20)		R617 (16.40)					
		C88 (7.34)		C599 (3.17)		M45 (15.20)		R103 (14.20)		R618 (16.40)					
		C89 (7.34)		C600 (3.17)		M46 (15.20)		R104 (14.20)		R619 (16.40)					
		C90 (7.34)		C601 (3.17)		M47 (15.20)		R105 (14.20)		R620 (16.40)					
		C91 (7.34)		C602 (3.17)		M48 (15.20)		R106 (14.20)		R621 (16.40)					
		C92 (7.34)		C603 (3.17)		M49 (15.20)		R107 (14.20)		R622 (16.40)					
		C93 (7.34)		C604 (3.17)		M50 (15.20)		R108 (14.20)		R623 (16.40)					
		C94 (7.34)		C605 (3.17)		M51 (15.20)		R109 (14.20)		R624 (16.40)					
		C95 (7.34)		C606 (3.17)		M52 (15.20)		R110 (14.20)		R625 (16.40)					
		C96 (7.34)		C607 (3.17)		M53 (15.20)		R111 (14.20)		R626 (16.40)					
		C97 (7.34)		C608 (3.17)		M54 (15.20)		R112 (14.20)		R627 (16.40)					
		C98 (7.34)		C609 (3.17)		M55 (15.20)		R113 (14.20)		R628 (16.40)					
		C99 (7.34)		C610 (3.17)		M56 (15.20)		R114 (14.20)		R629 (16.40)					
		C100 (7.34)		C611 (3.17)		M57 (15.20)		R115 (14.20)		R630 (16.40)					
		C101 (7.34)		C612 (3.17)		M58 (15.20)		R116 (14.20)		R631 (16.40)					
		C102 (7.34)		C613 (3.17)		M59 (15.20)		R117 (14.20)		R632 (16.40)					
		C103 (7.34)		C614 (3.17)		M60 (15.20)		R118 (14.2							