

P684-A01 GT216 DESKTOP Low Profile

PCI-EXPRESSx16 DL-DVI HDMI VGA DDR3

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5.0
Page 21: PWM Change to UP6205 ; Add UP6262 Circuit
Page 20: Removed GPIO7_FBVDD_MODE Circuit
Removed GPIO13
Page 19: Removed 3V3 change to 1.8V IFP_PLLVDD SUPPLY
Page 18: Removed INFO ROM, HDCP ROM
Page 17: Removed 2Pin FAN CONTROL
Removed JTAG

5.1
Page 20: Changed L10 Footprint,removed Q5,Q15 co-layout Powerpak MOS
Page 12: Changed J1 Footprint

MSIS-RMA
吳婷
20100902

REV	VARIANT	NPIN	ASSEMBLY
0	BASE	600-10684-base-100	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO. STUFF ASSEMBLY NOTES AND BOM NOT FINAL
1	SRU000	600-10684-0000-100	GT216-350 600/1000MHz 1024MB 64MB/s BGAT100 800MHz DDR3 DVI-UDPHDMI-VGA
2	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
3	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
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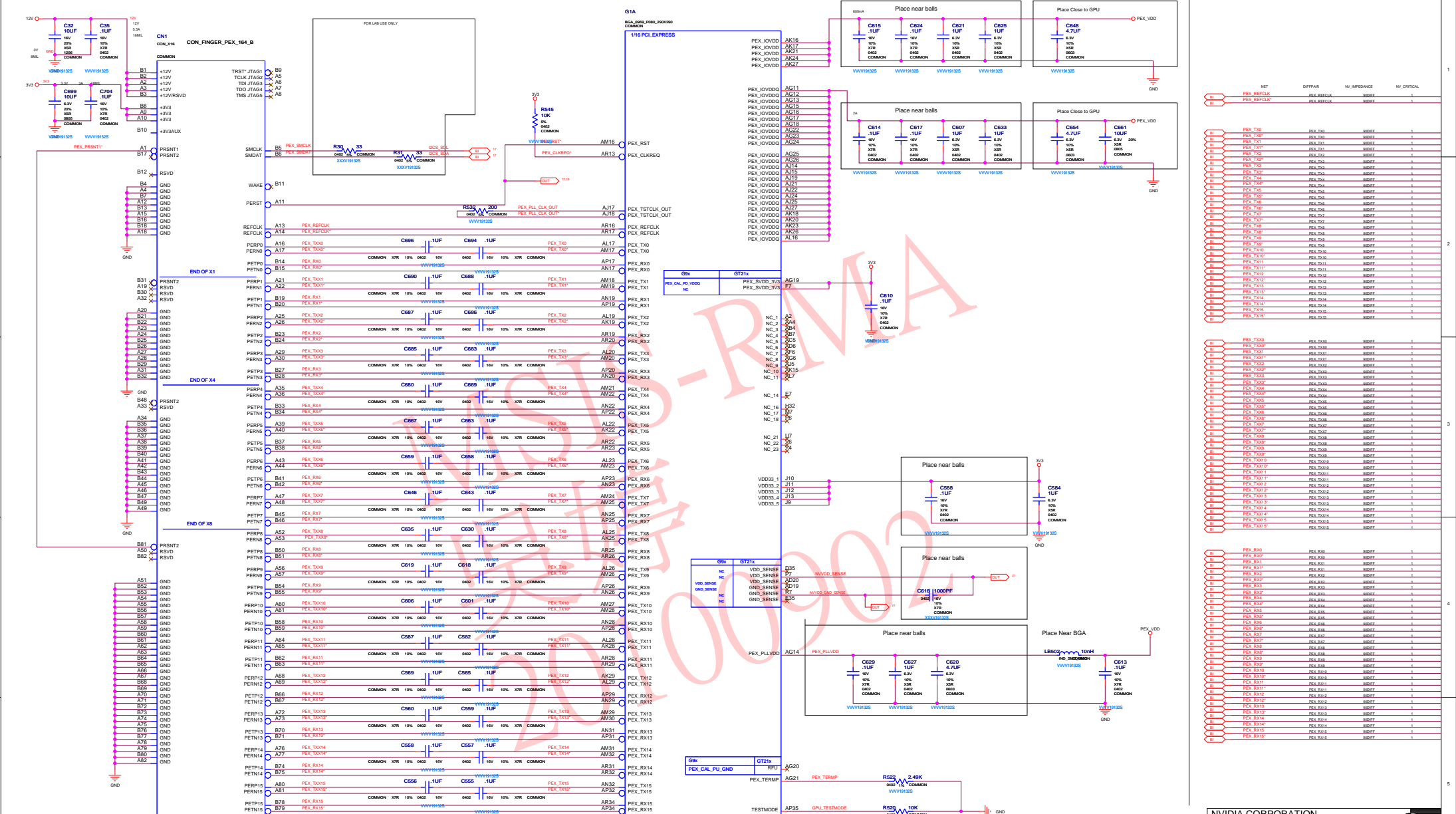
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13-FEB-2009




ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO. STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	P684-A01 OVERVIEW

PCI-EXPRESS INTERFACE

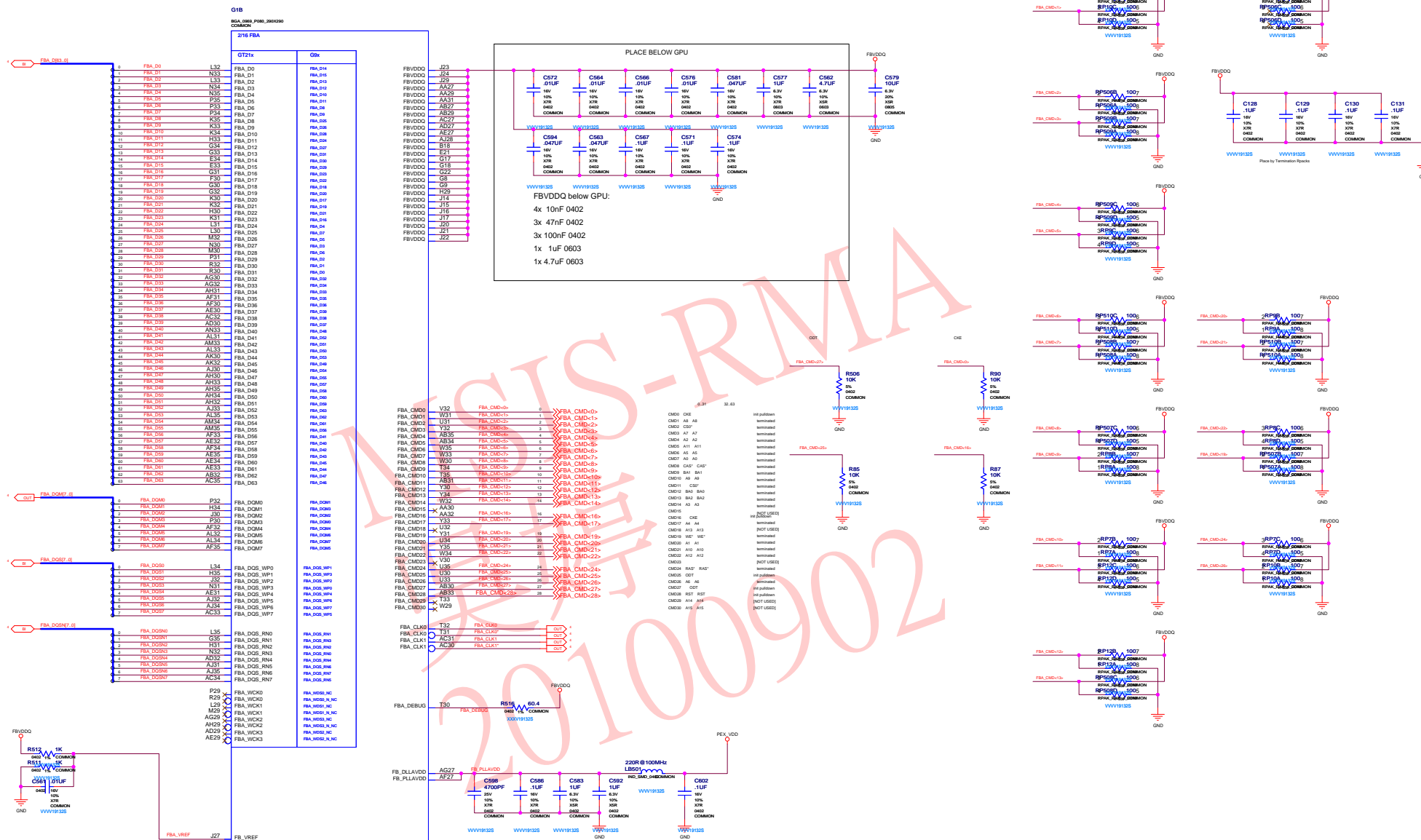


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ASSEMBLY	
PAGE DETAIL	PCI-EXPRESS INTERFACE

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PARTITION A FRAME BUFFER INTERFACE



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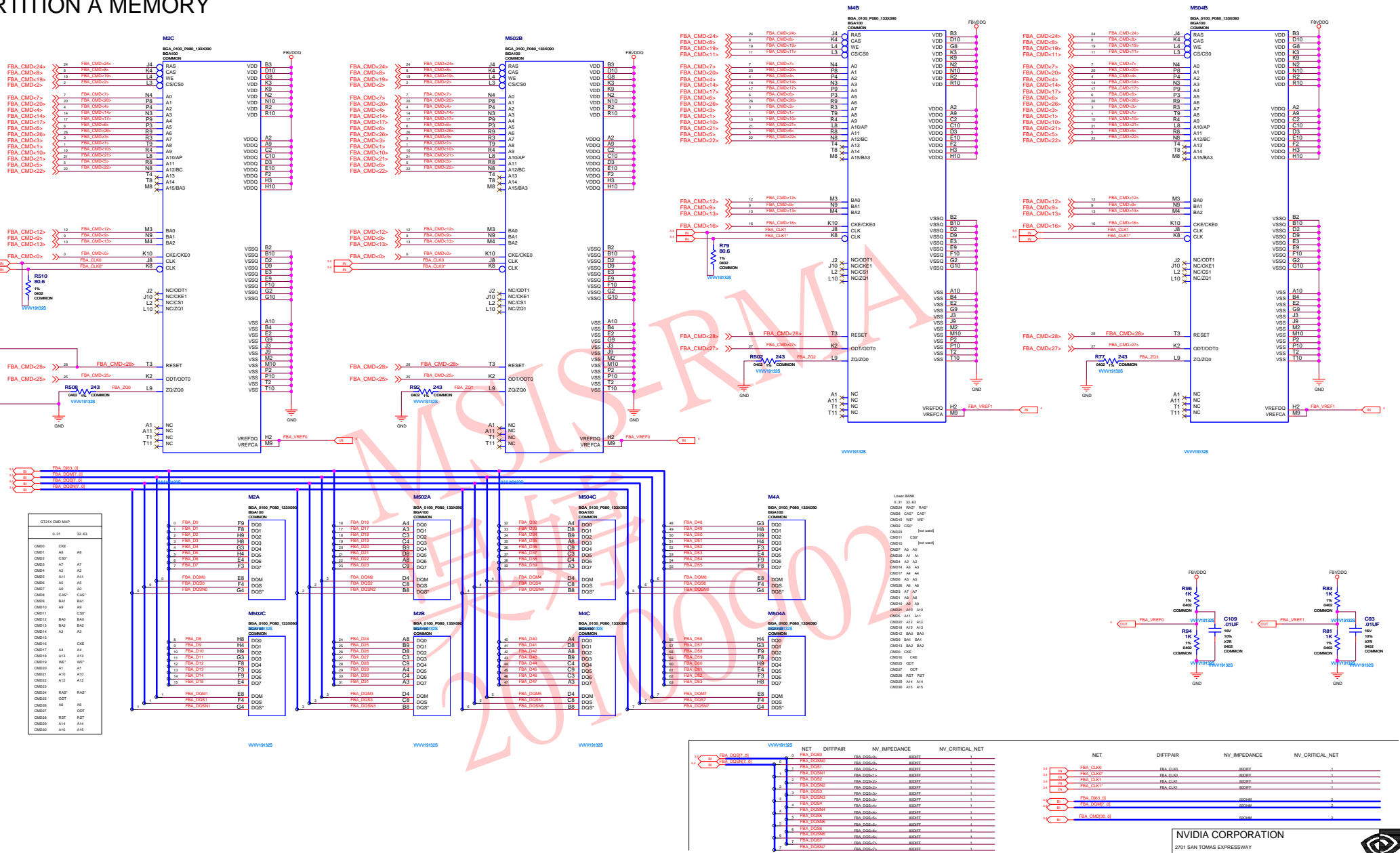
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A	B	C	D
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PARTITION A MEMORY



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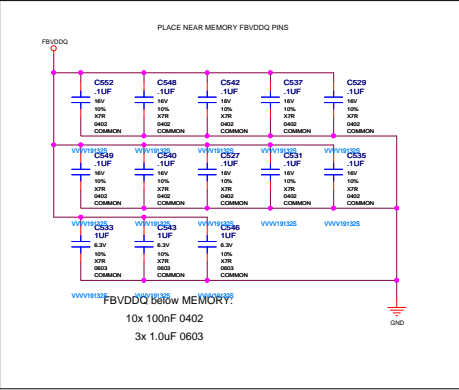
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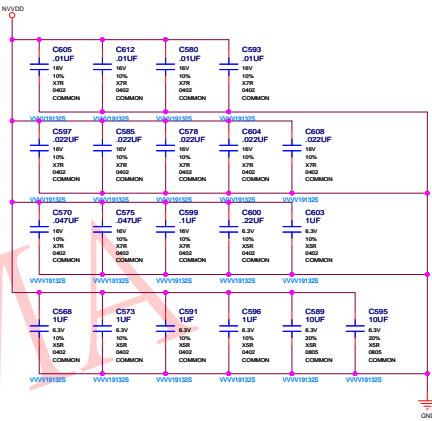
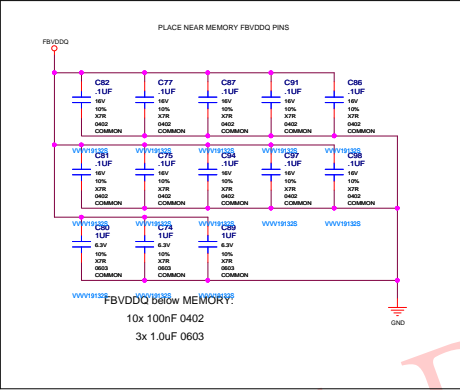
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FBA DECOUPLING CAPS & NVVDD DECOUPLING CAPS

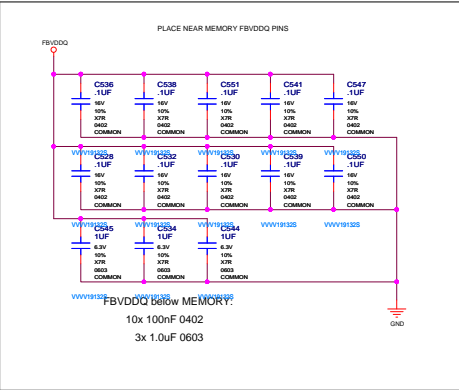
Decoupling for FBA 0..15



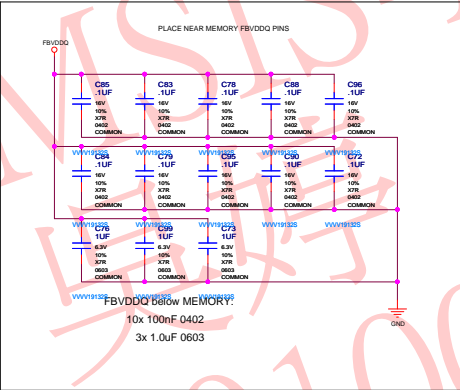
Decoupling for FBA 16..31



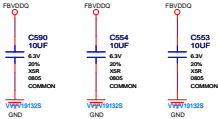
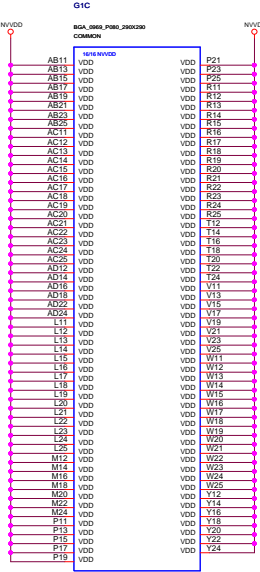
Decoupling for FBA 32..47



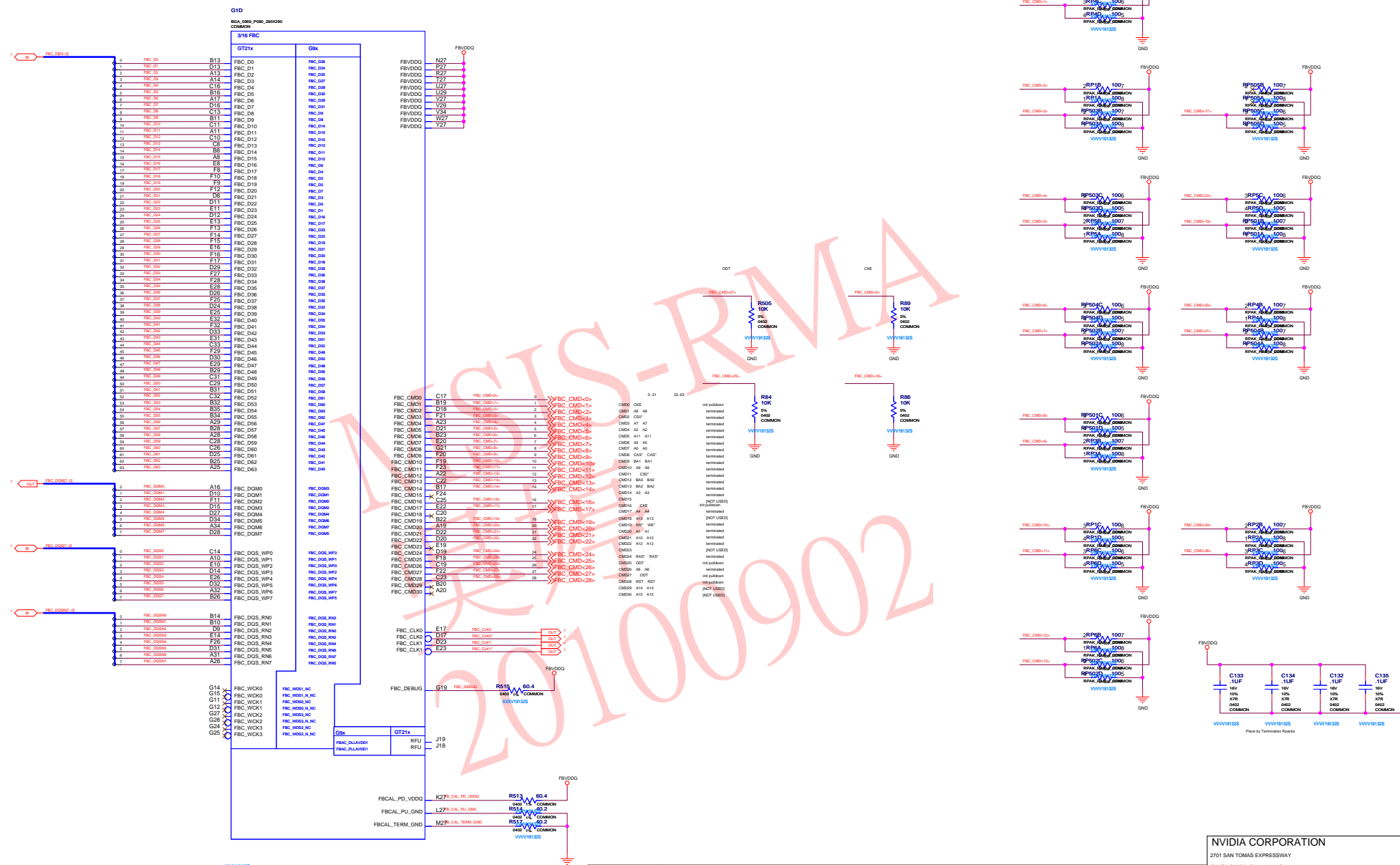
Decoupling for FBA 48..63



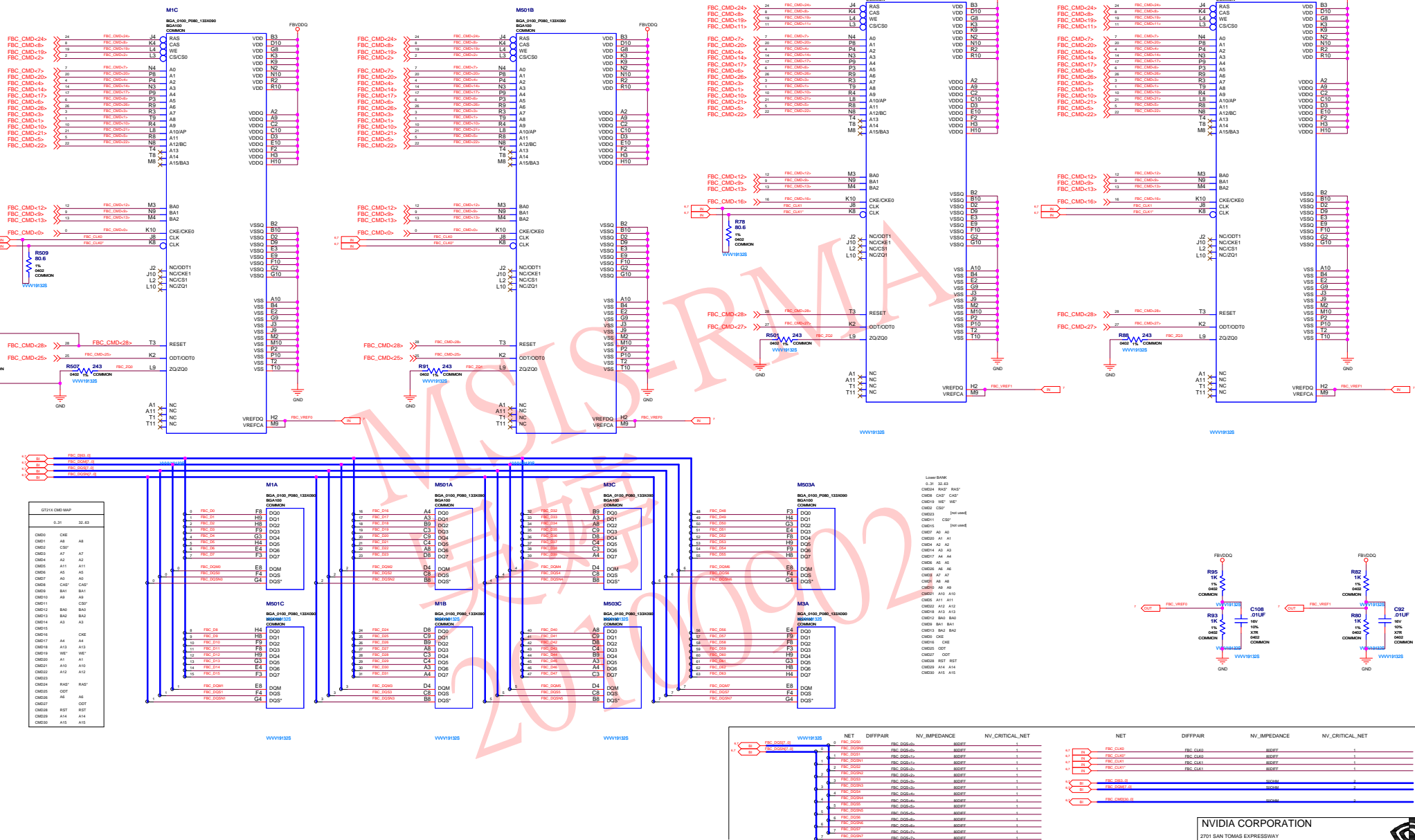
NVVDD under GPU:
4x 0.01uF 0402 X7R
5x 0.022uF 0402 X7R
2x 0.047uF 0402 X7R
1x 0.1uF 0402 X7R
1x 0.22uF 0402 X7R
4x 1.0uF 0402 X5R
1x 2.2uF 0402 X5R
2x 10uF 0805 X5R



PARTITION C FRAME BUFFER INTERFACE



PARTITION C MEMORY



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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PARTITION C MEMORIES

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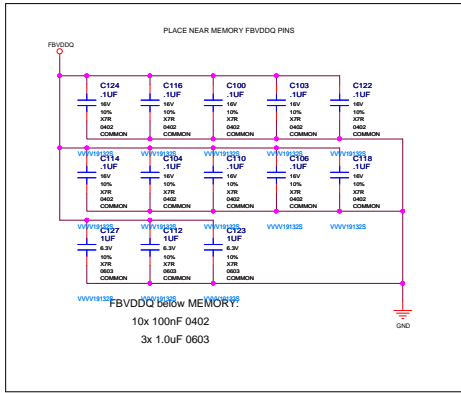
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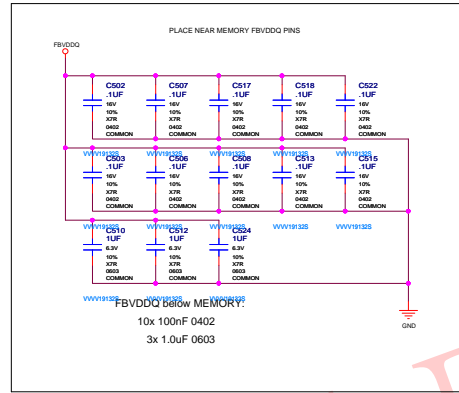
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FBC DECOUPLING CAPS & NVVDD DECOUPLING CAPS

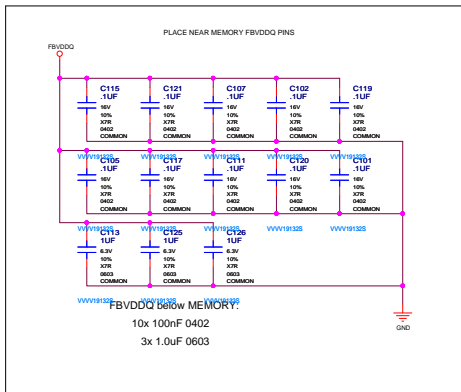
Decoupling for FBC 0..15



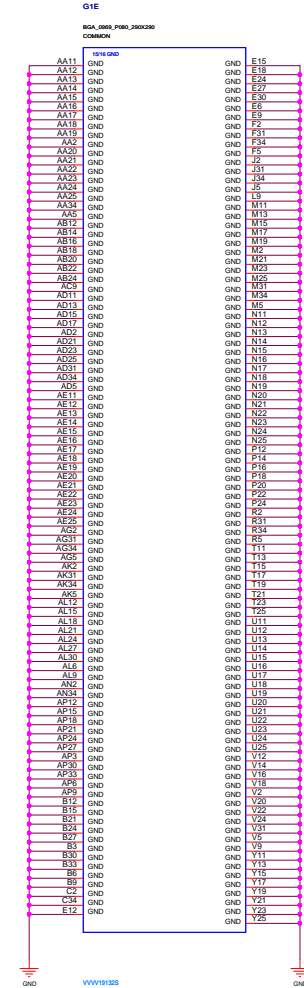
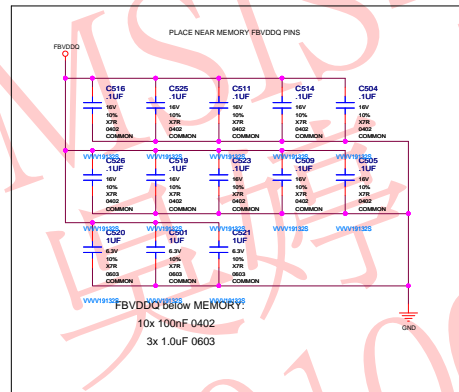
Decoupling for FBC 16..31



Decoupling for FBC 32..47



Decoupling for FBC 48..63



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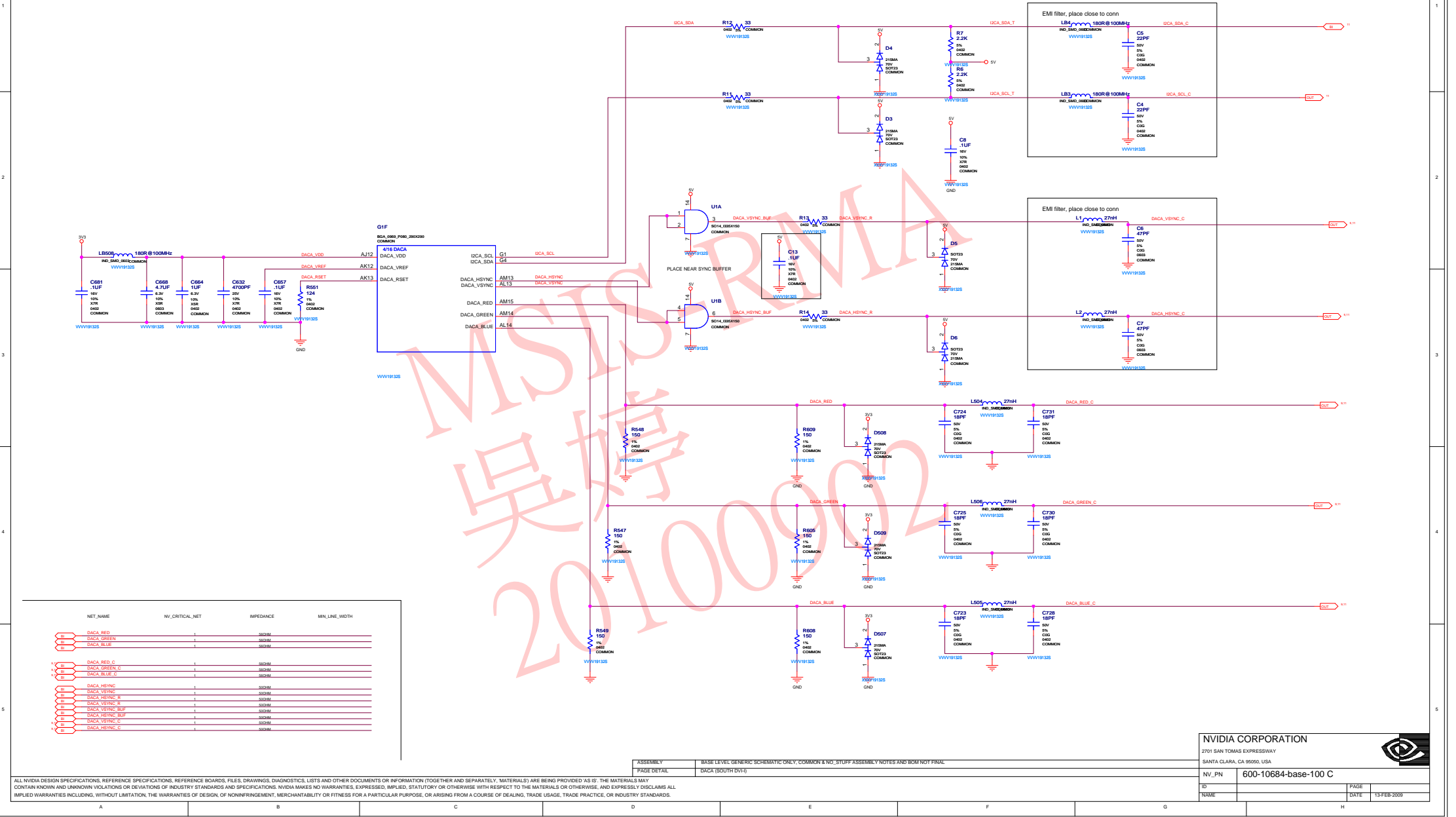
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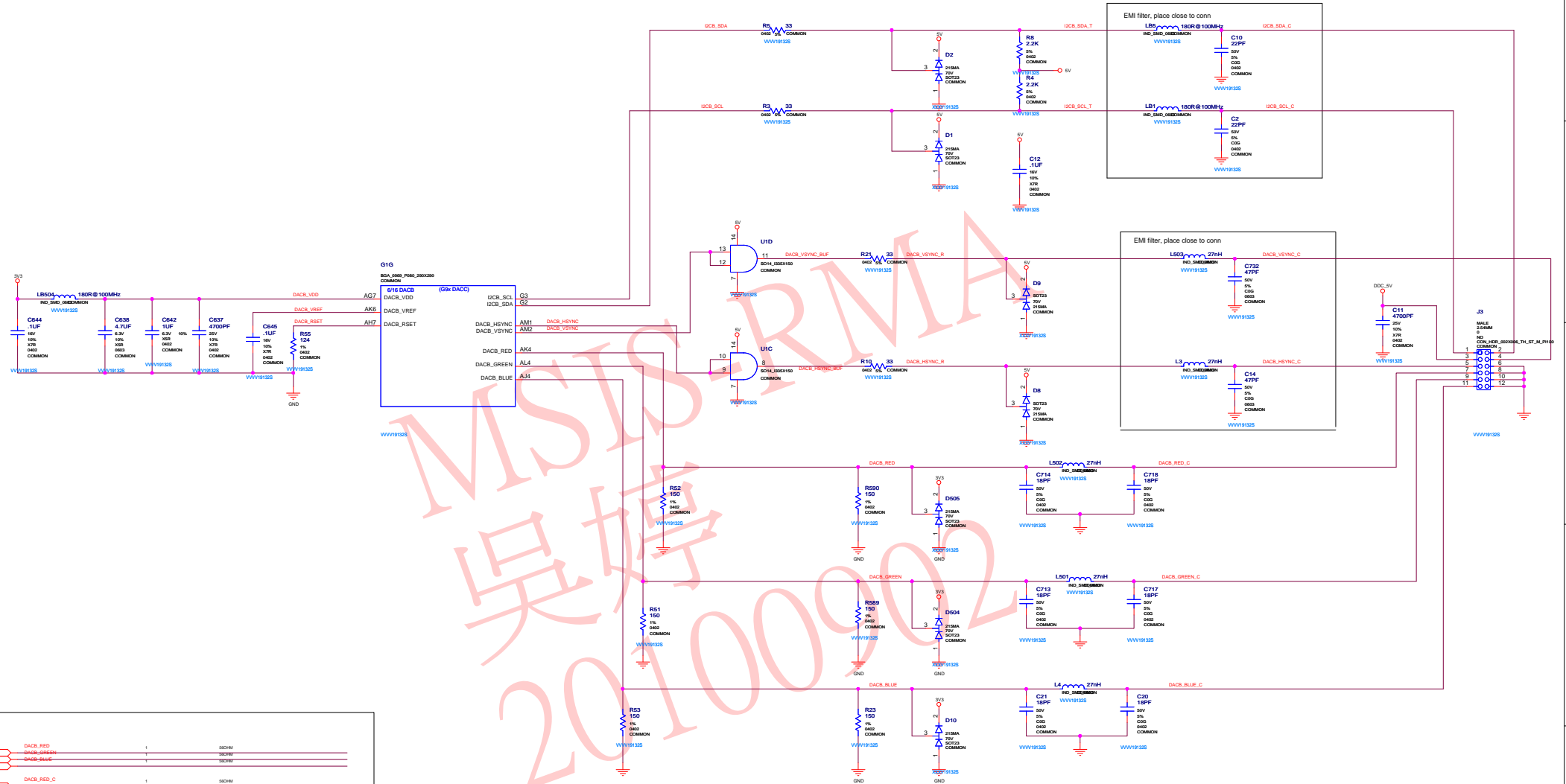
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DACA (SOUTH DVI-I)



DACB (cable-up VGA)



Gene	Accession	Length (bp)	GC (%)
DACB_RED	1	10048	
DACB_RED-INT	1	10048	
DACB-BLUP	1	10048	
D		10048	
DACB_RED_C	1	10048	
DACB-CARDON_C	1	10048	
D		10048	
DACB-BLUP_C	1	10048	
D		10048	
DACB_HSTNC	1	10048	
DACB_HSTNC-INT	1	10048	
D		10048	
DACB_HSTNC-B	1	10048	
D		10048	
DACB_HSTNC-BLUP	1	10048	
D		10048	
DACB_HSTNC-BLUP	1	10048	
D		10048	
DACB_HSTNC-C	1	10048	
D		10048	

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	DACB (MID DVI-I)

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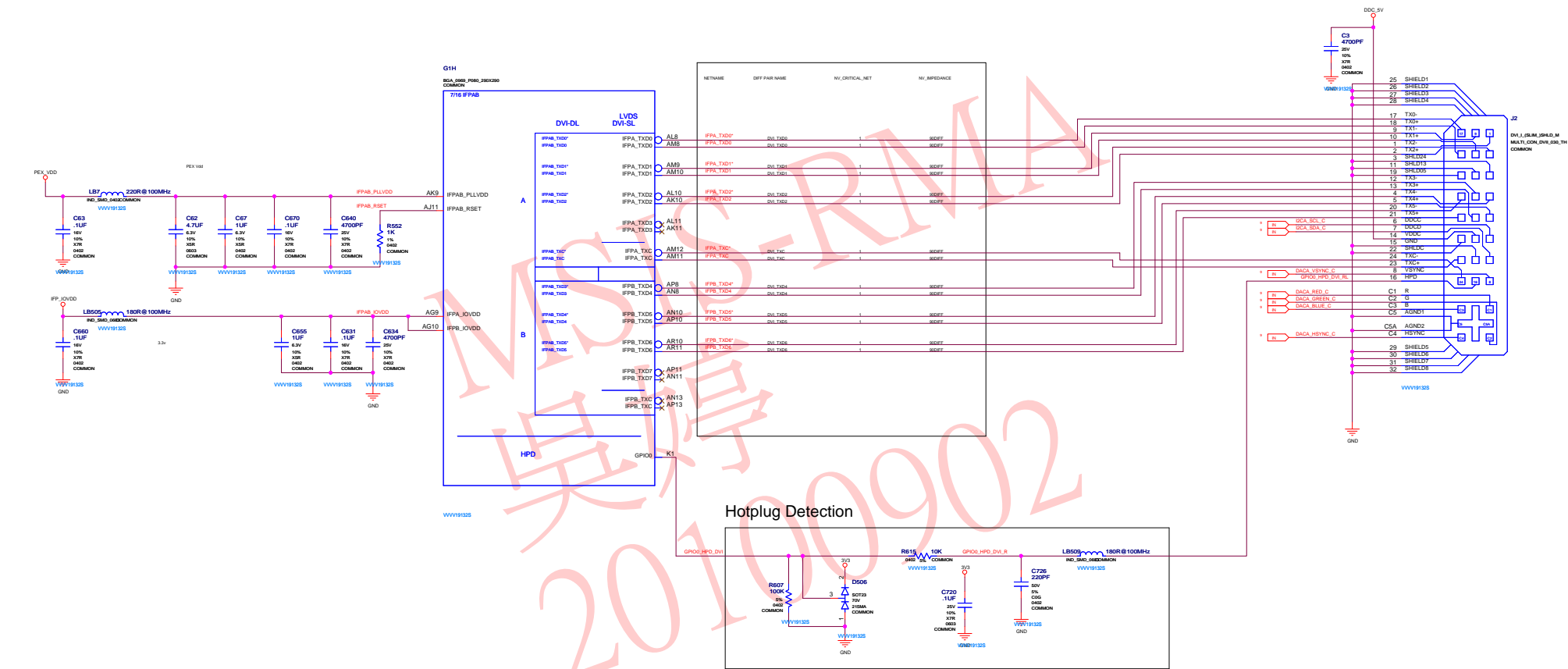


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IFP AB (SOUTH DVI-I)

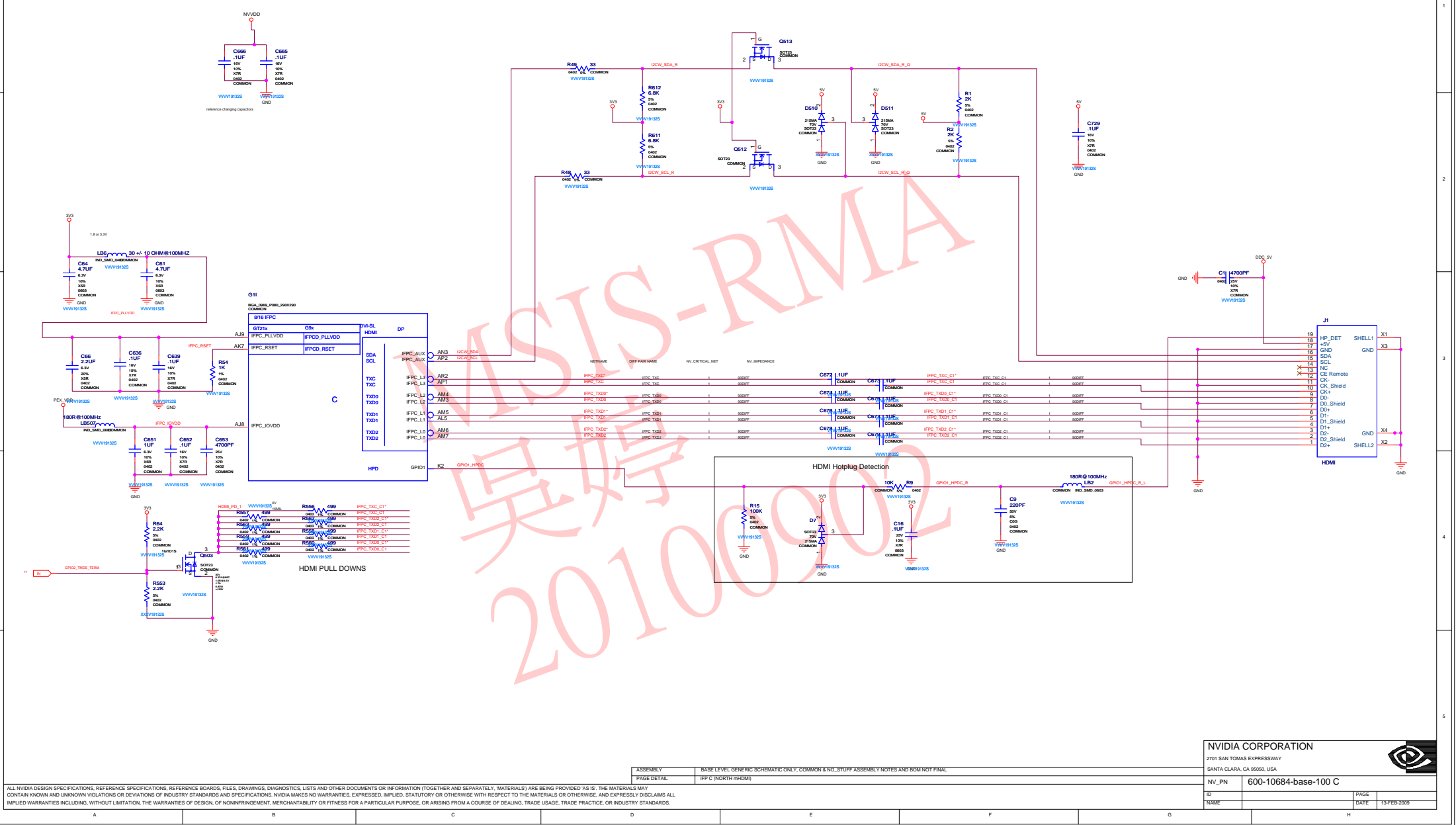


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PAGE DETAIL	IFP AB (SOUTH DVI-I)

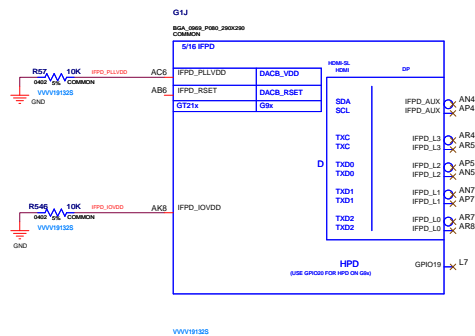
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NAME	DATE 13 FEB 2009

IFP C (NORTH HDMI)



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IFP D (UNUSED)



	NET	PAIR	NV_CRITICAL	IMPEDANCE
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1	FFE_AUX_BYP	FFE_AUX_BYP	1	50OH

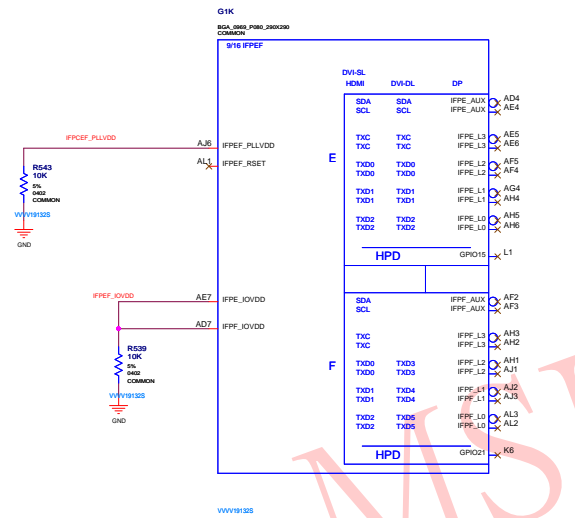
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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY; COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	IFP D (UNUSED) & MID DISPLAYPORT

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IFP EF (unused)



T		PAIR	NV_CRITICAL	IMPEDANCE
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BE	EPFE T2C ²	EPFE T2C	1	SOFT
BE	EPFE T2C ³	EPFE T2C	1	SOFT
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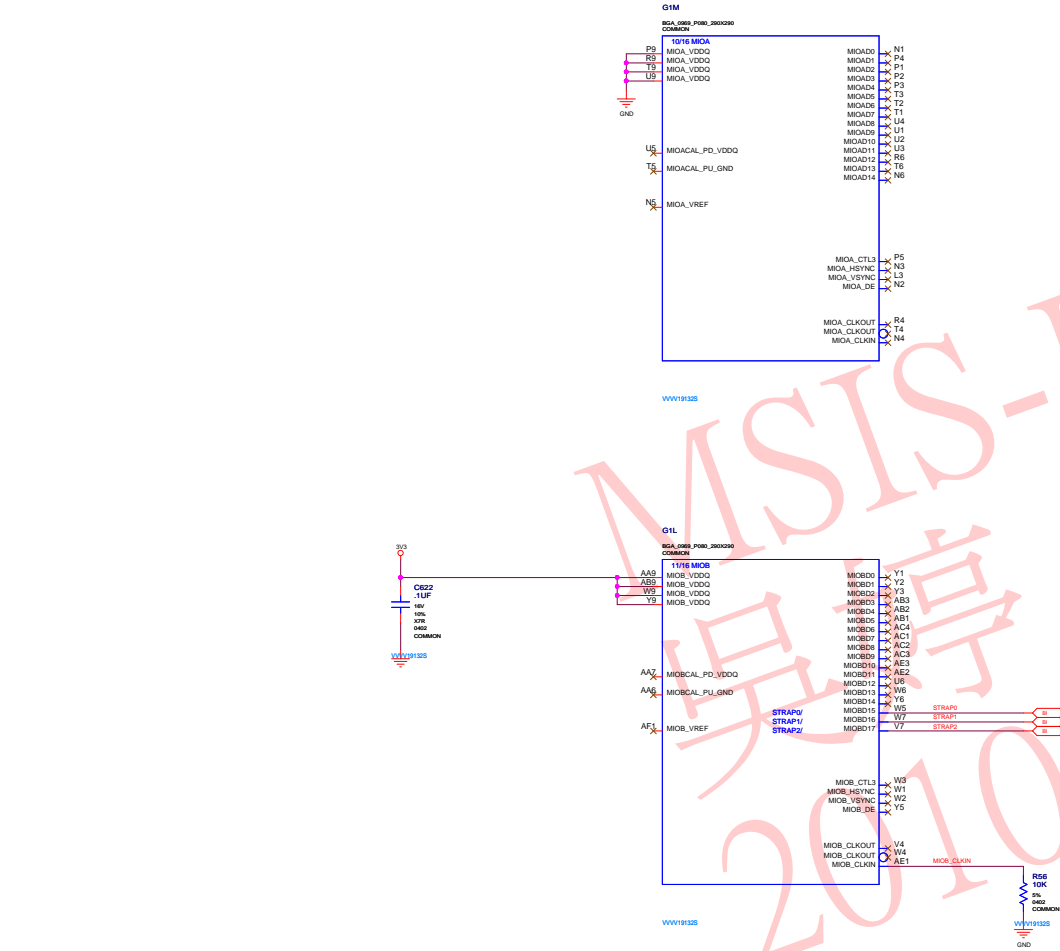
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MIOA & MIOB



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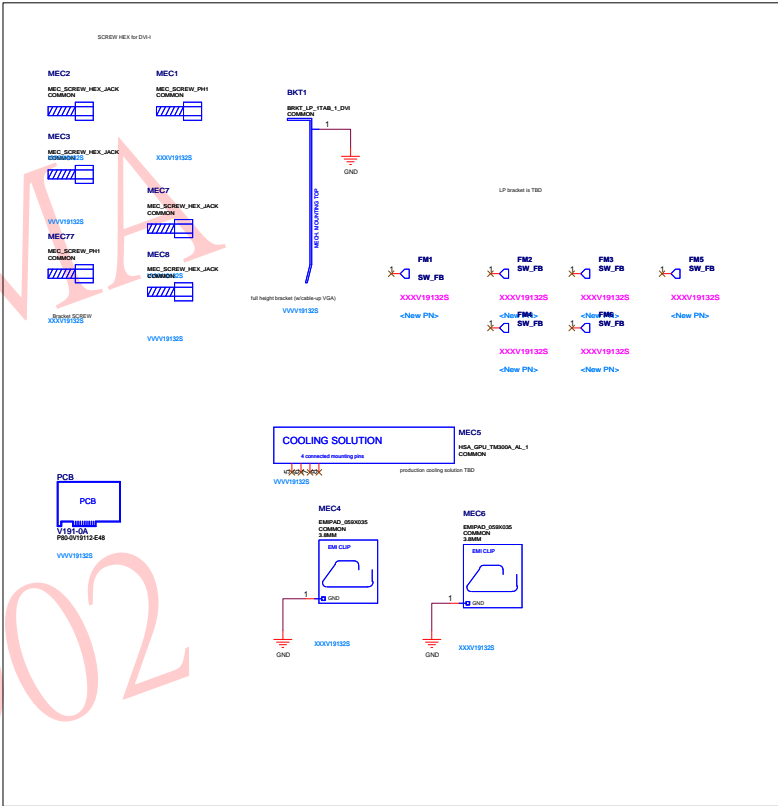
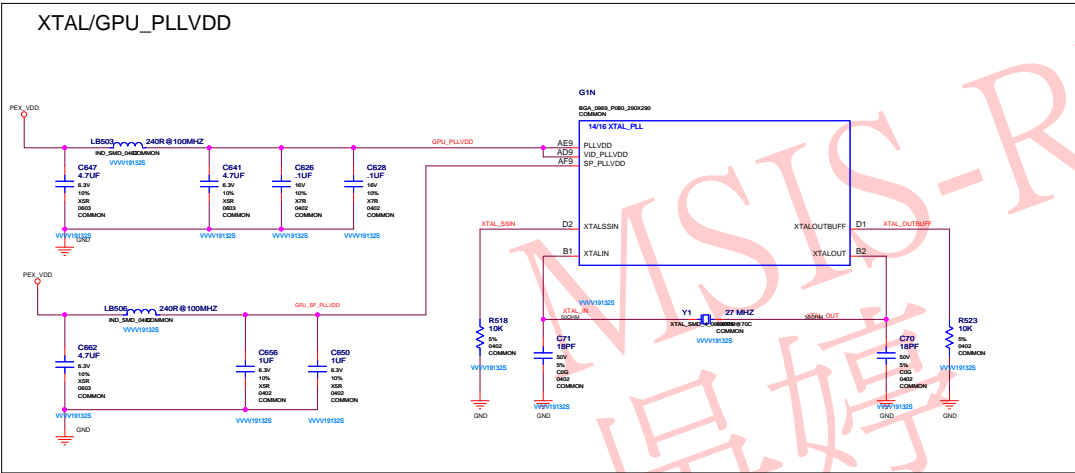
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PAGE DETAIL	MIOA & MIOB

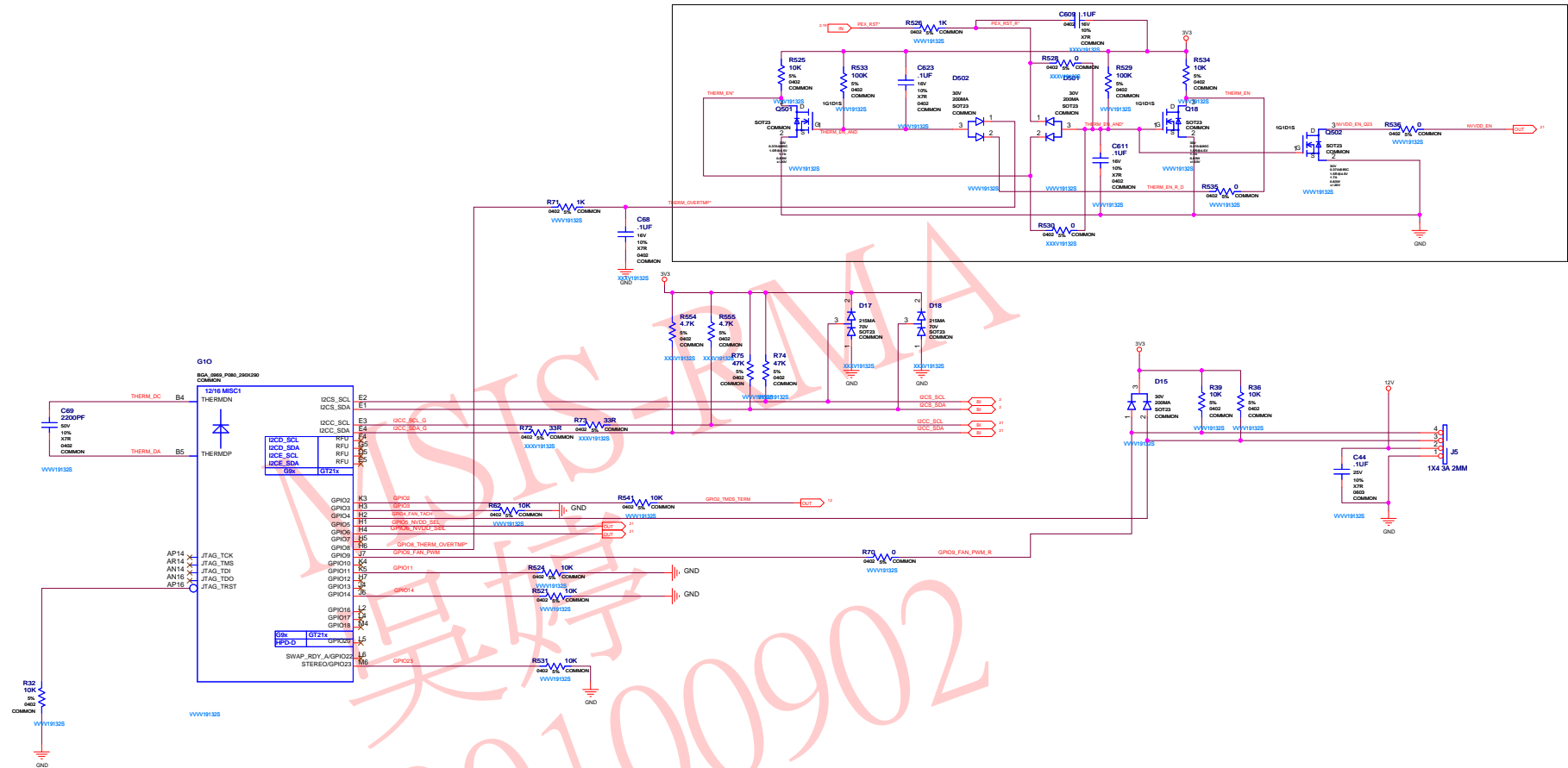
XTAL, MECHANICALS, THERMALS



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FAN CONTROL, GPIO, JTAG

OVERTEMP LATCH



Remove 2 pin fan

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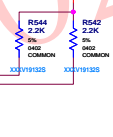
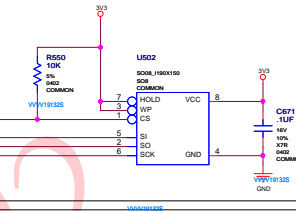
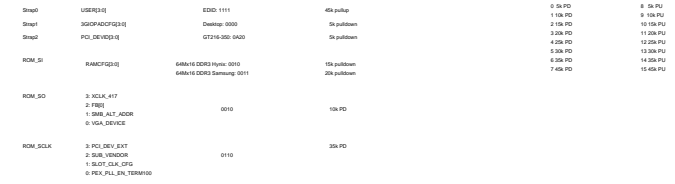


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STRAPPING OPTIONS



INFOROM

I2C ADDRESS: 0XA

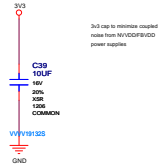
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PAGE DETAIL	BIOS ROM, HDCP ROM, STRAPPING OPTIONS

LINEAR POWER SUPPLIES

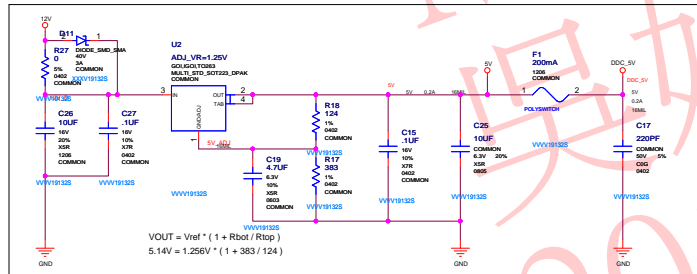


IFP_PLLVDD SUPPLY

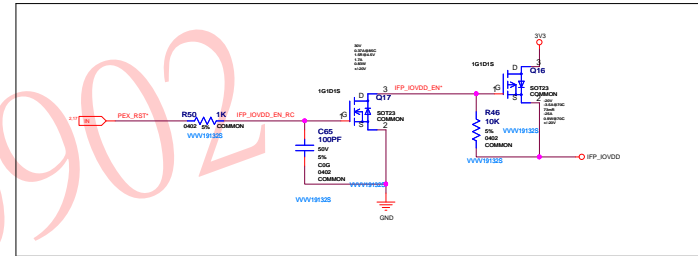
$$V_{OUT} = V_{ref} * (1 + R_{bot} / R_{top})$$

$$1.793V = 0.8V * (1 + 1k / 0.806k)$$

5V & DDC_5V REGULATOR



IFP_IOVDD BACKDRIVE PREVENTION



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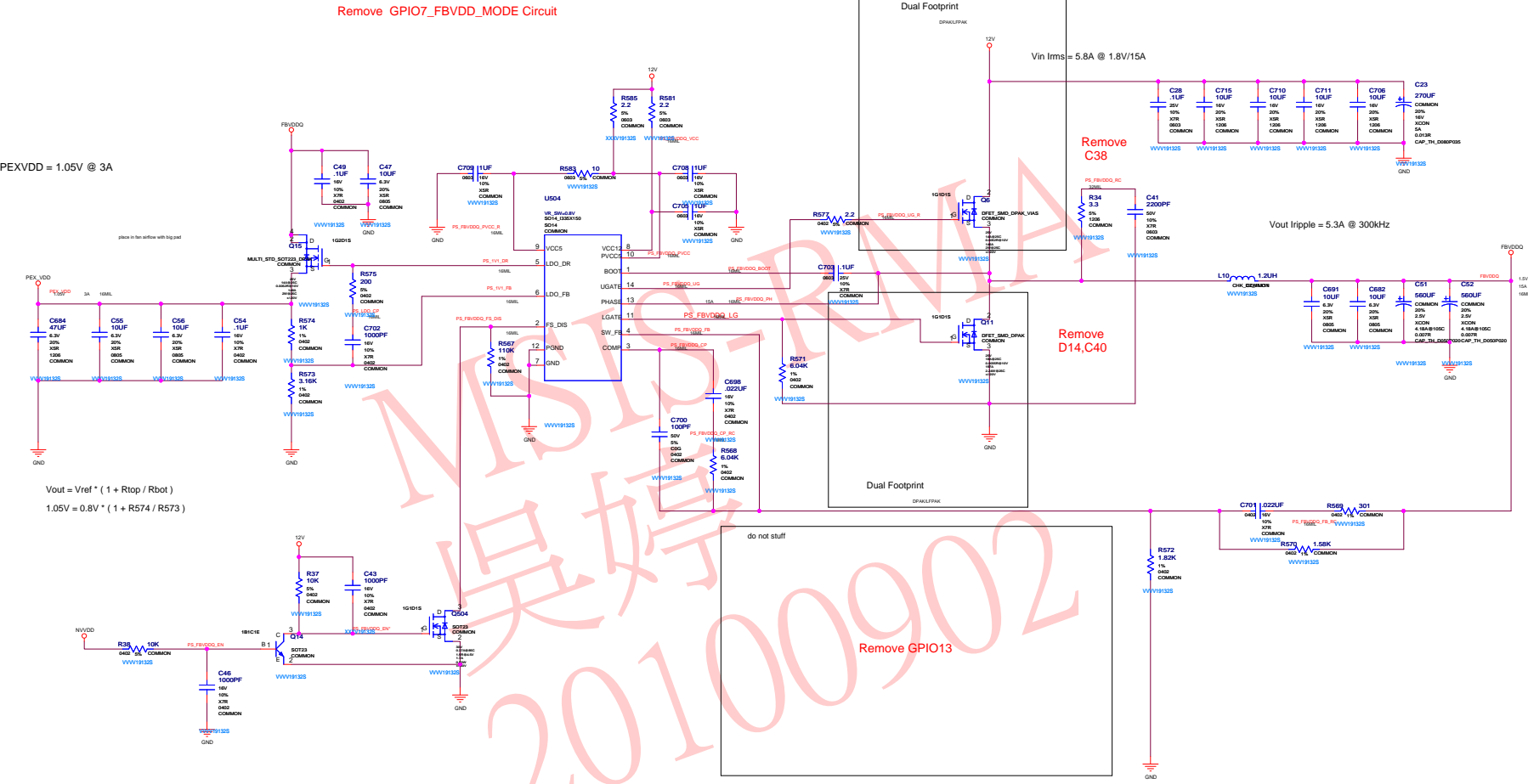


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FBVDDQ/PEXVDD POWER SUPPLY

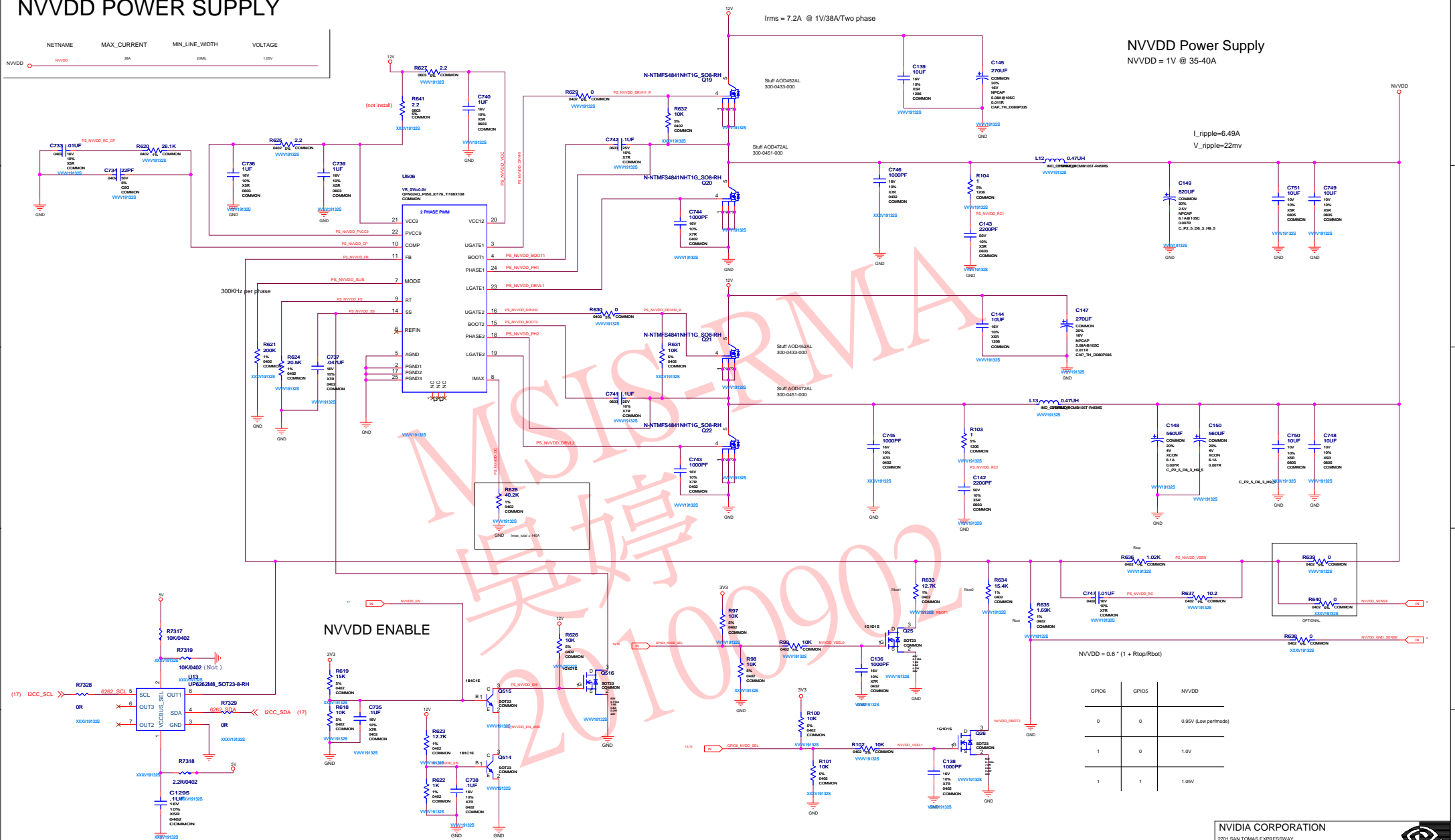


FBVDDQ = Vref * (1 + Rtop / Rbot)
1.50V = 0.8V * (1 + R570 / R572) @ GPIO13 = 0 [DEFAULT]

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NVVDD POWER SUPPLY



GPI06	GPI05	VVDD
0	0	0.95V (Low perfmode)
1	0	1.0V
1	1	1.05V

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