

PG174-A01

TU117, 128b GDDR5 x32, 75W
DVI-D DL/DUAL DP + HDMI

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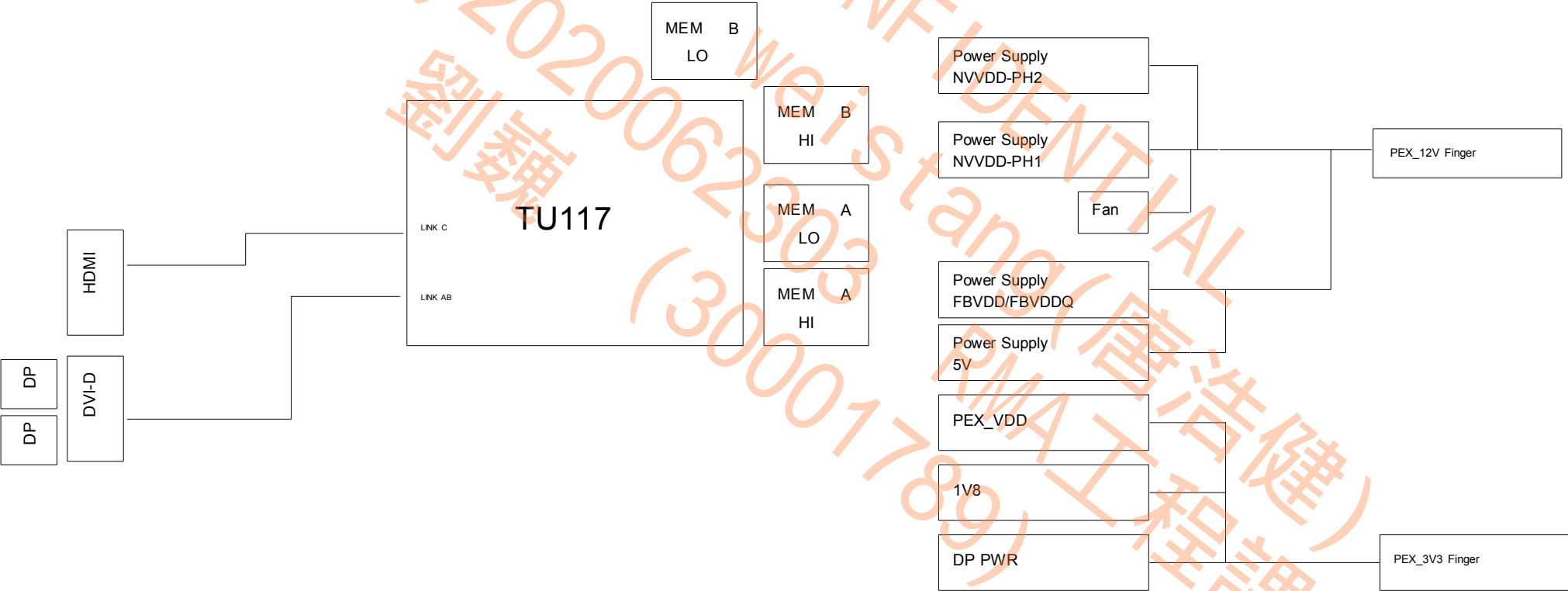
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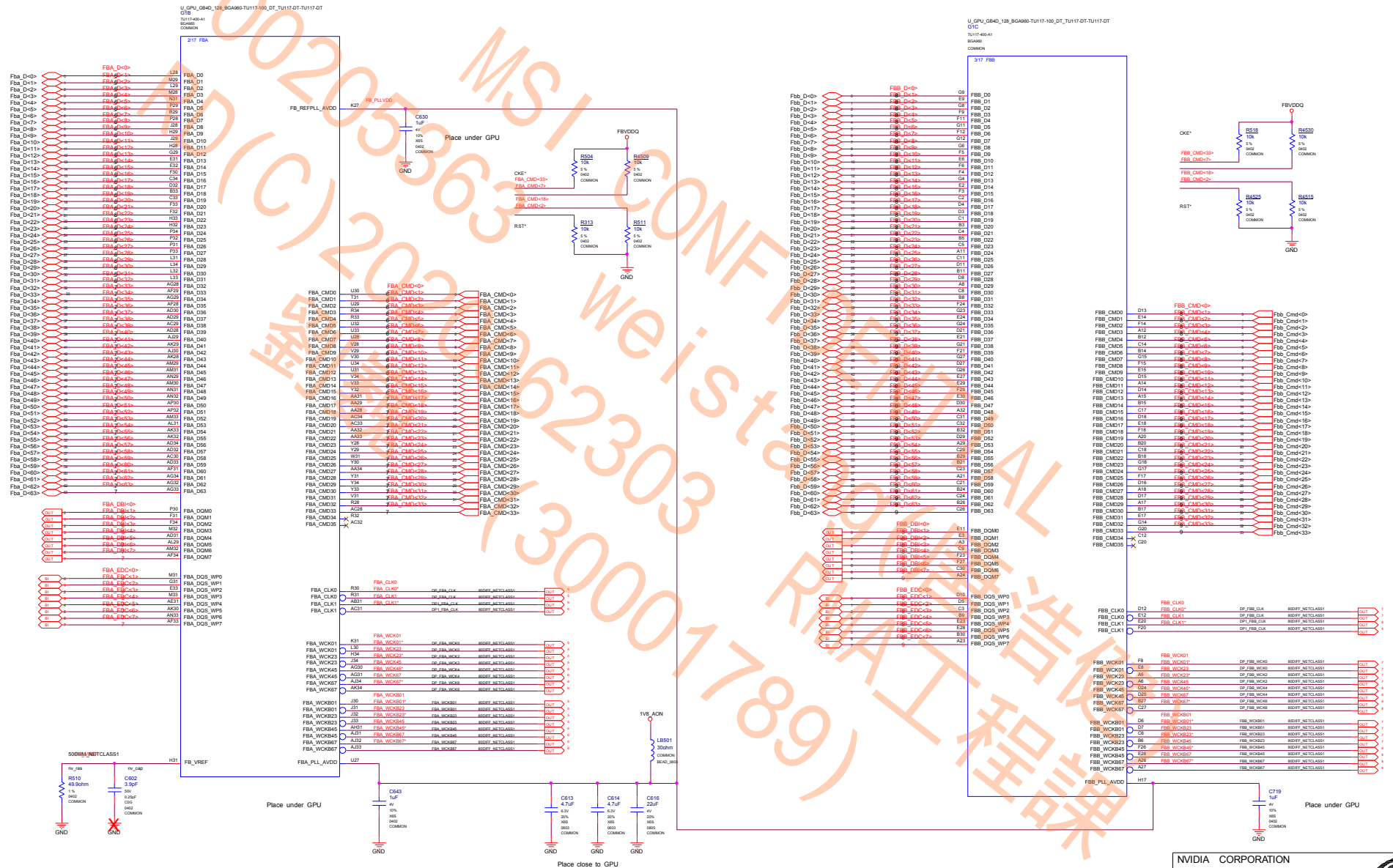
Block Diagram



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MEMORY: GPU Partition A/B



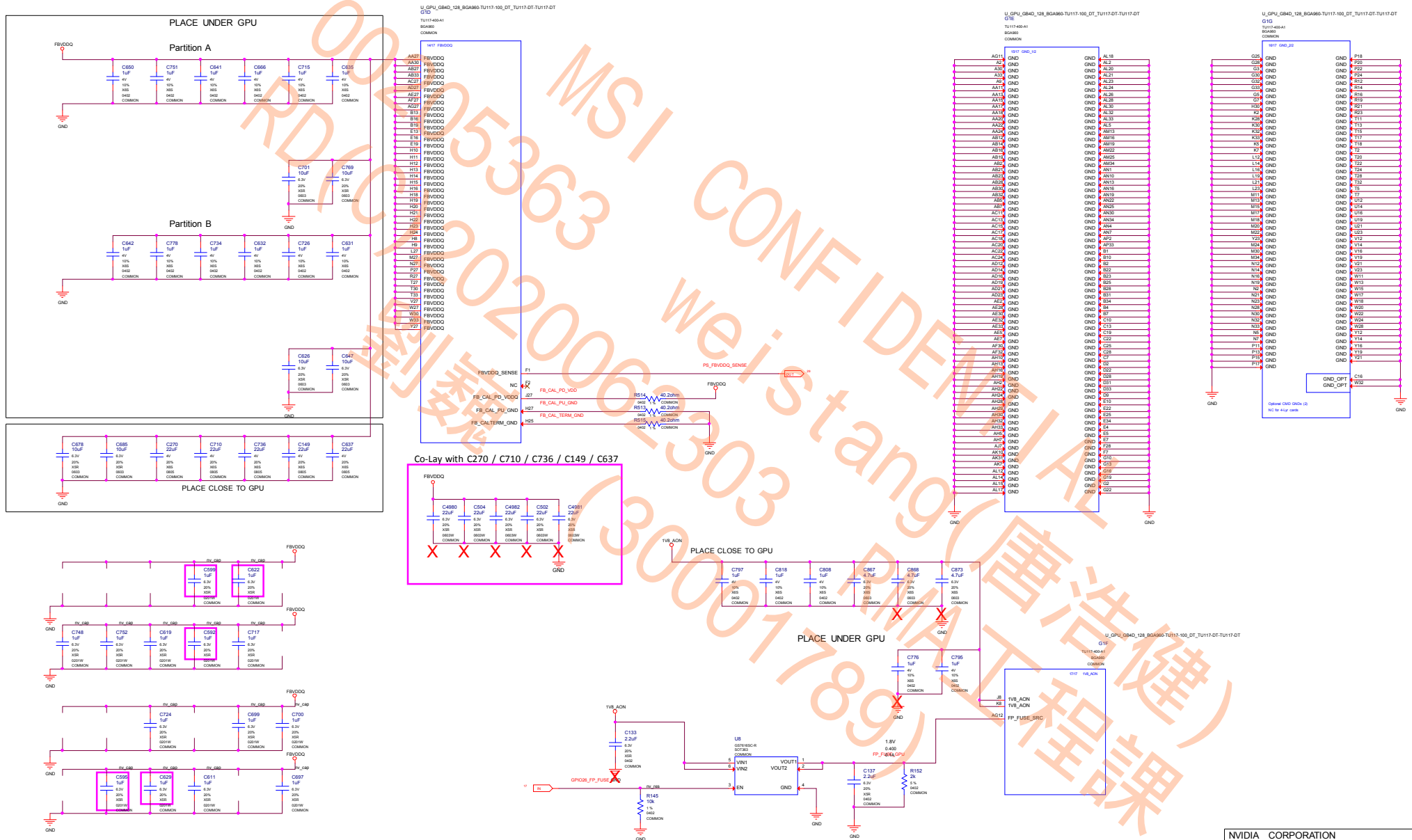
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PAGE DETAIL	MEMORY: GPU Partition A/B

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GPU FBVDDQ & 1V8 Decoupling



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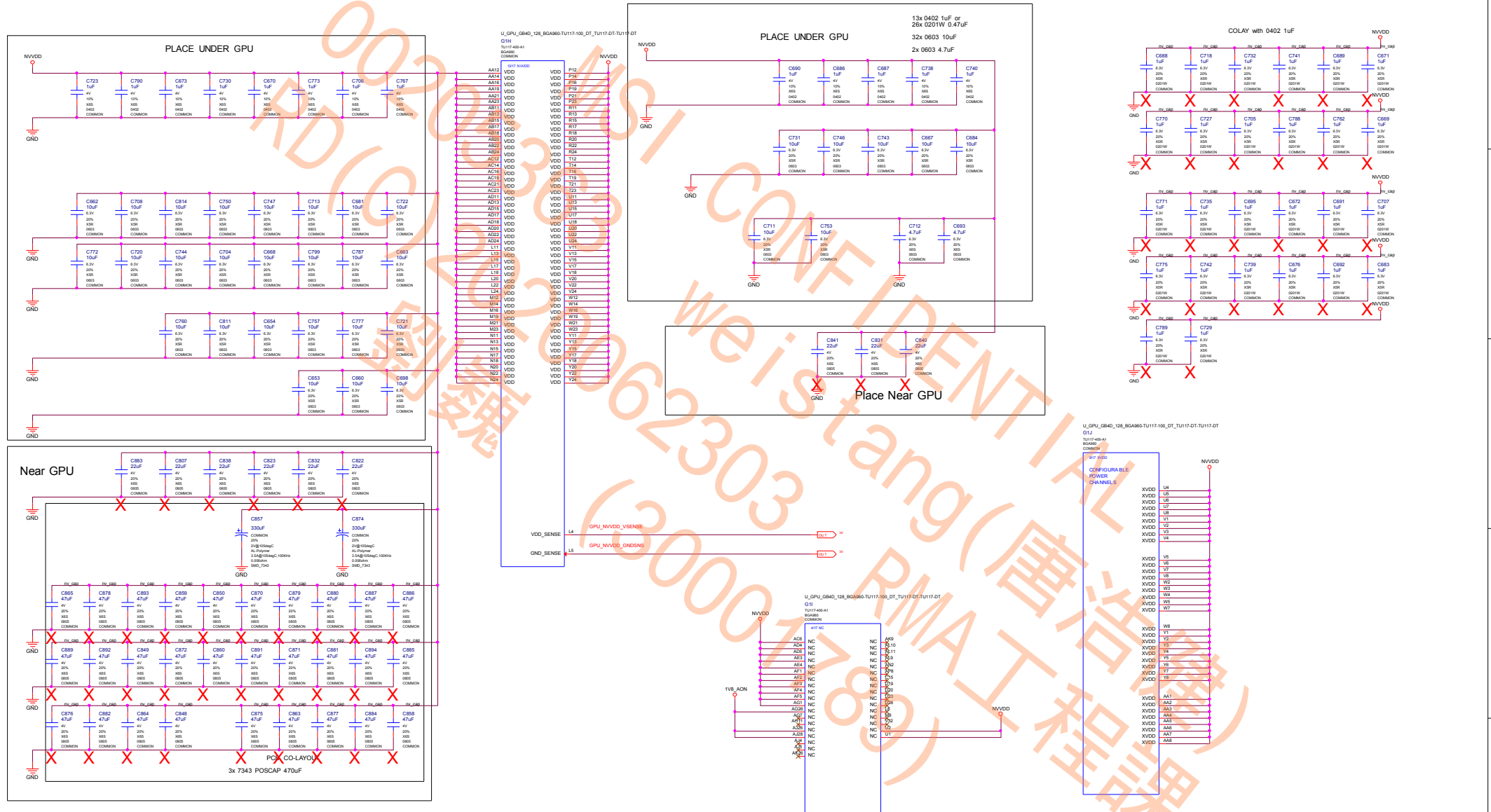
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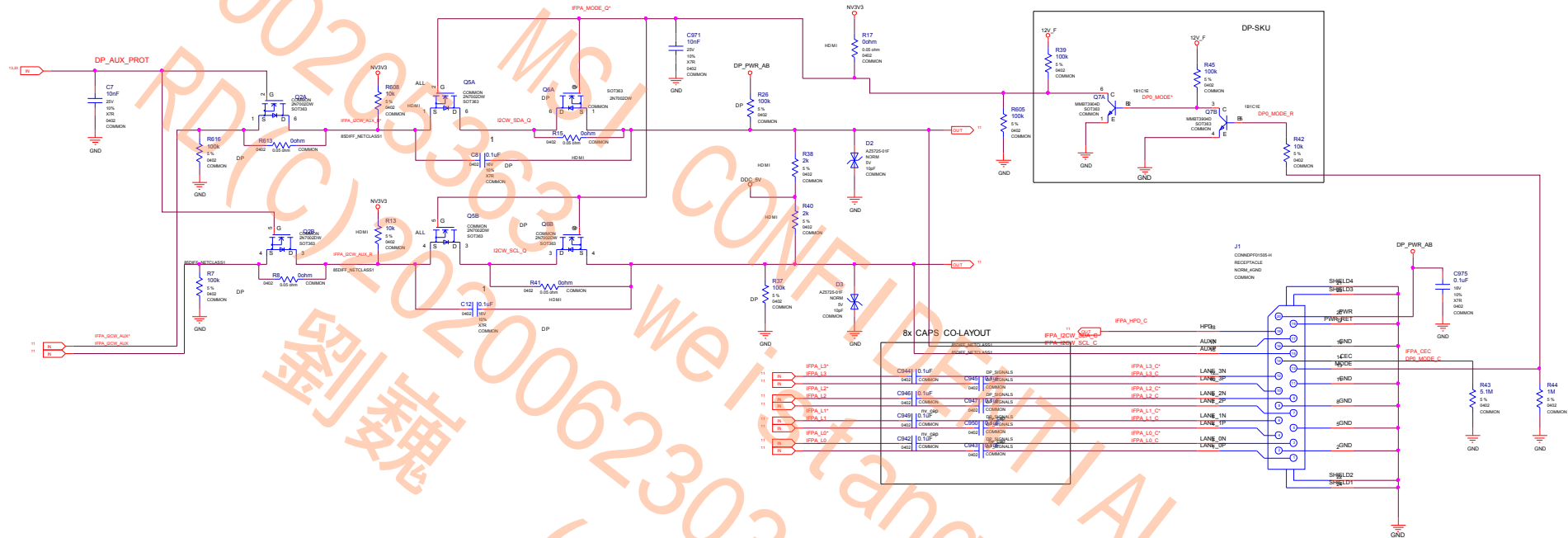
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GPU NVVDD Decoupling



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IFPA DP CO-LAYOUT WITH IFPAB DVI-D-DL

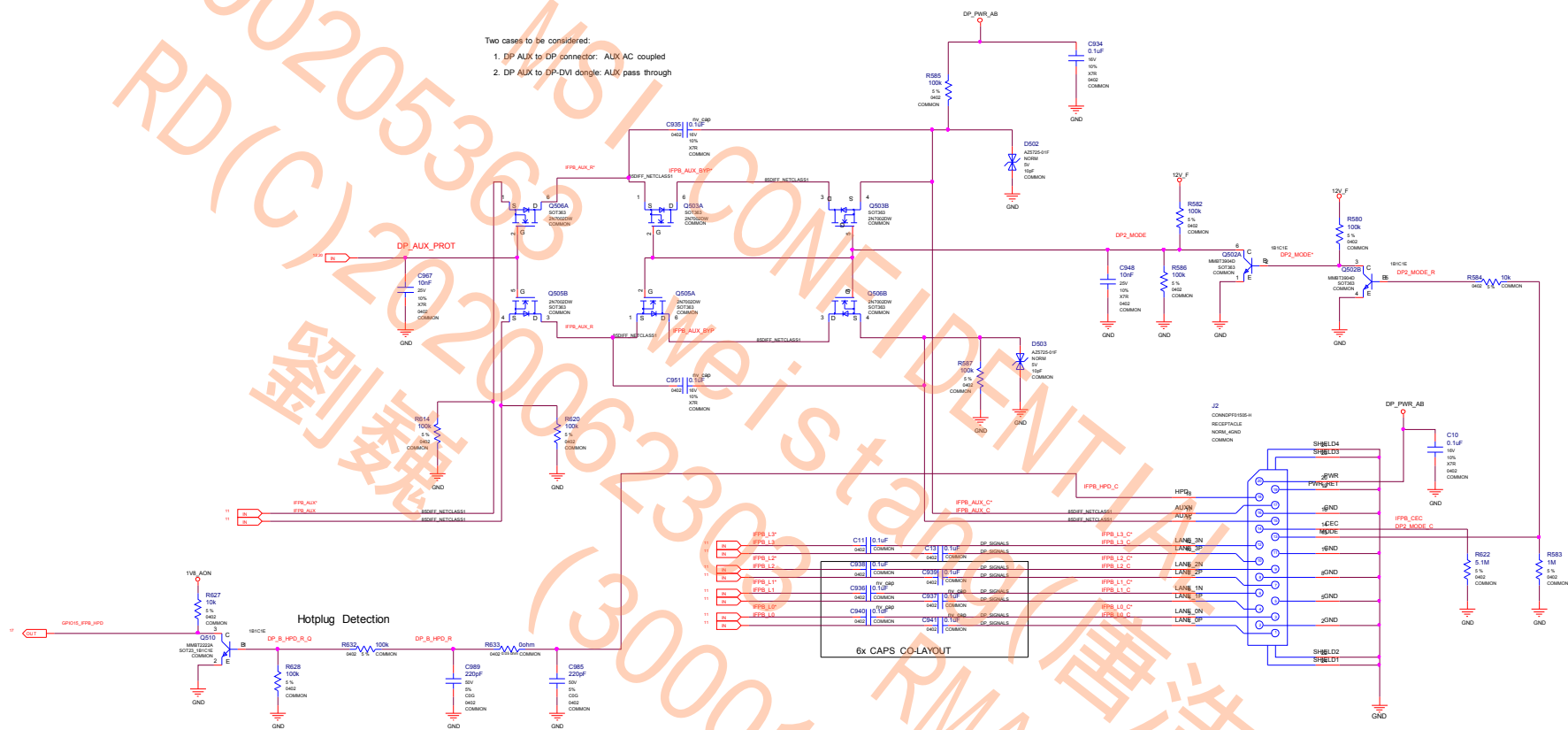
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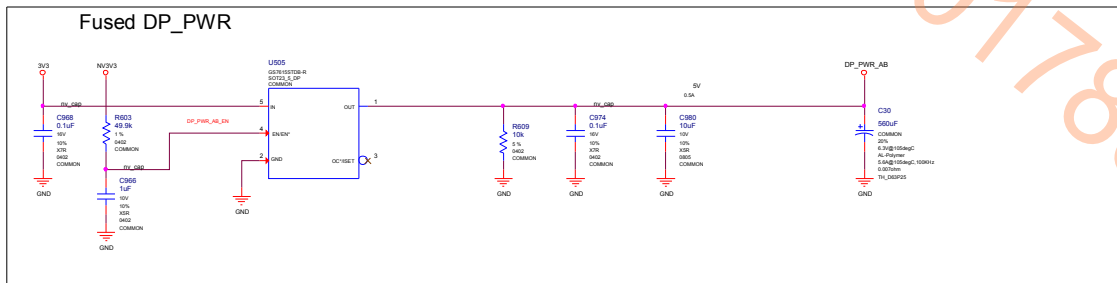
Page13: IFPB DP

Two cases to be considered:

1. DP AUX to DP connector: AUX AC coupled
2. DP AUX to DP-DVI dongle: AUX pass through



Fused DP_PWR



ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	IFB DP

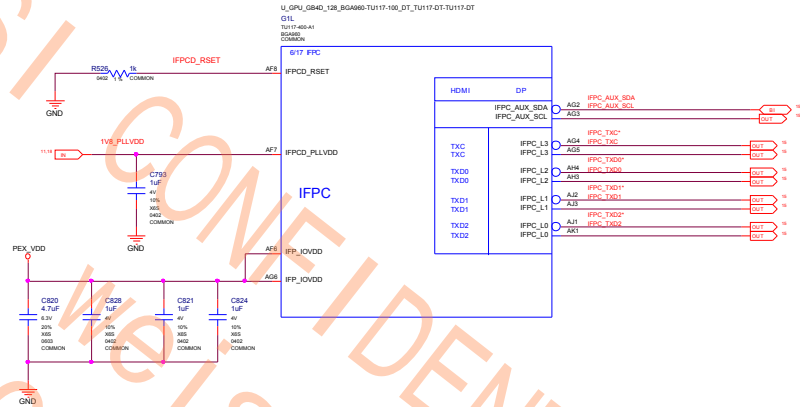
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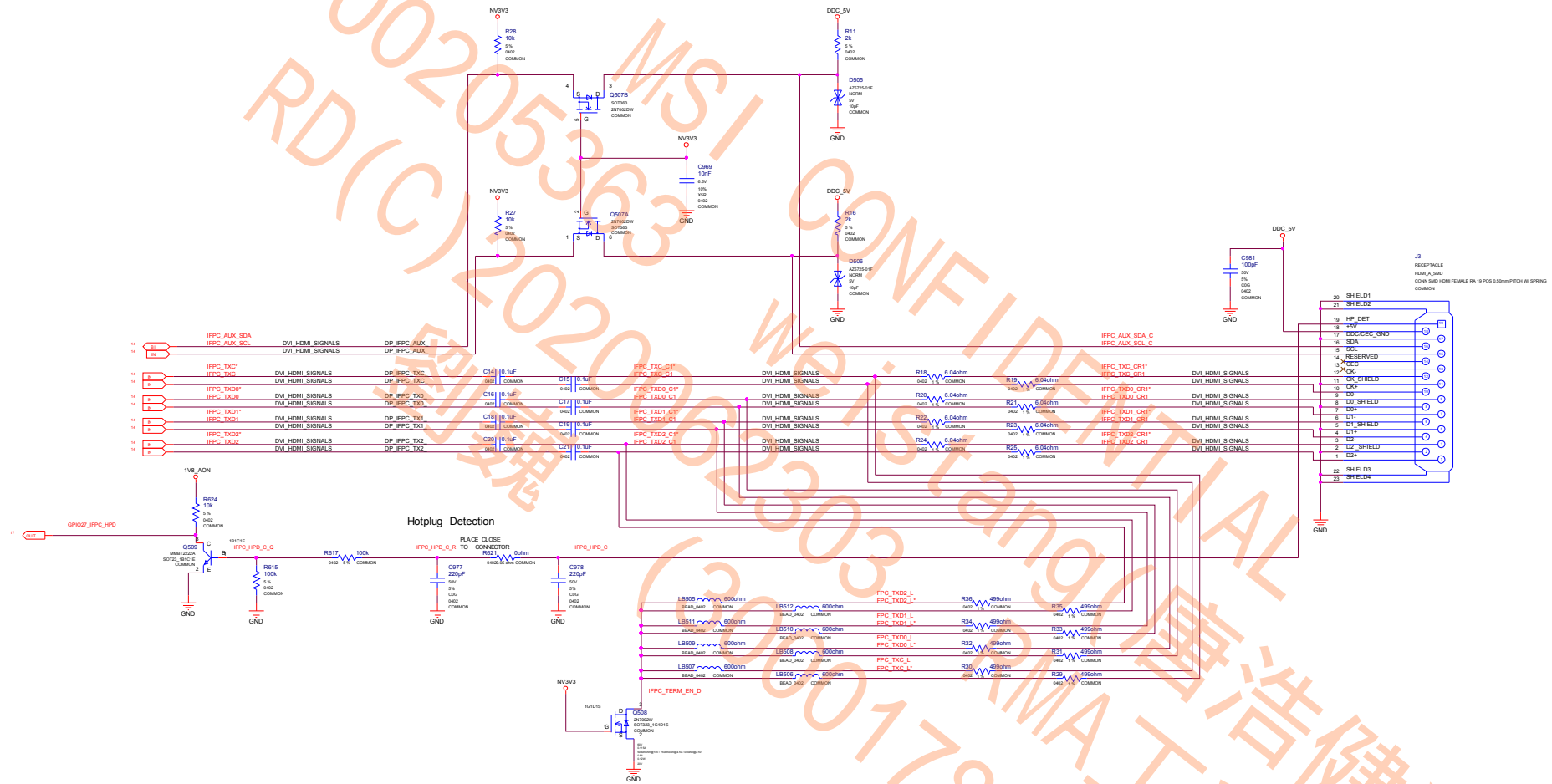
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IFPC HDMI



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IFPC HDMI	

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U_GPU_G840_12H_BGA660-TU117-100_DT-TU117-0T-TU117-0T

G1M
12117-0B-A1
COMMON

IFPE_RESET

IFPE_FLVDD

IFPE_I0VDD

IFPE_I0VDD

IFPD

HDMI

IFPD_AUX_SDA

IFPD_AUX_SCL

IFPD_L3

IFPD_L2

IFPD_L1

IFPD_L0

IFPD_RESET

IFPD_FLVDD

IFPD_I0VDD

IFPD_I0VDD

U_GPU_G840_12H_BGA660-TU117-100_DT-TU117-0T-TU117-0T

G1M
12117-0B-A1
COMMON

IFPD_RESET

IFPD_FLVDD

IFPD_I0VDD

IFPD_I0VDD

IFPD

HDMI

IFPD_AUX_SDA

IFPD_AUX_SCL

IFPD_L3

IFPD_L2

IFPD_L1

IFPD_L0

IFPD_RESET

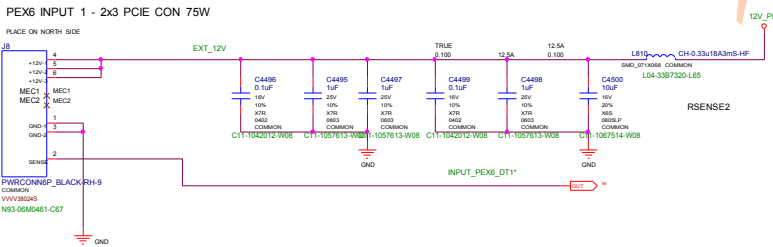
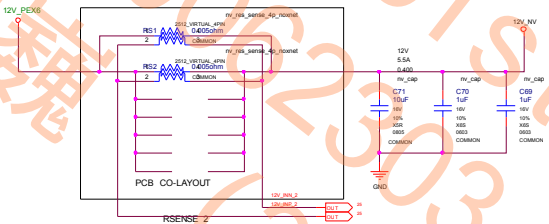
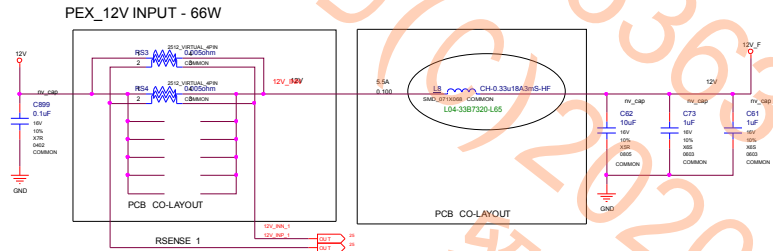
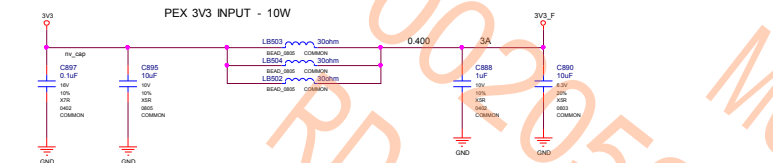
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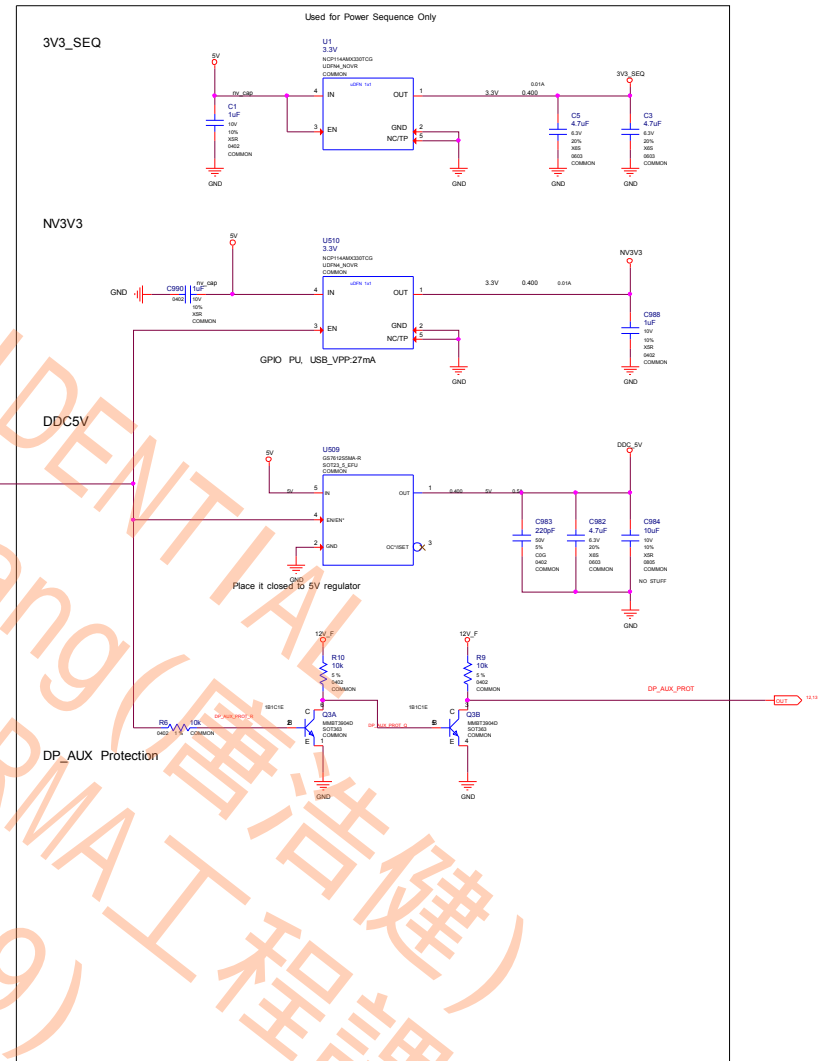
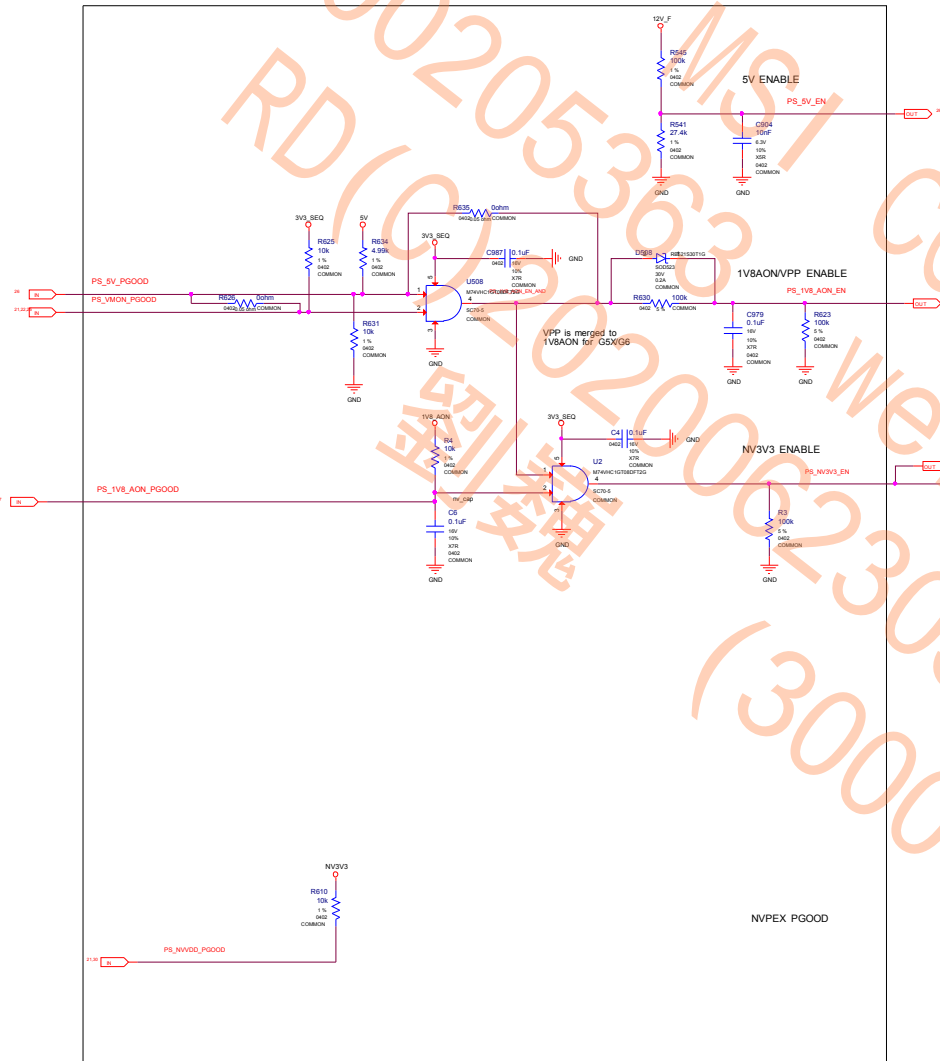
IFPD_I0VDD




Power Inputs and Filtering

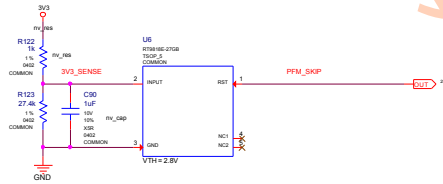
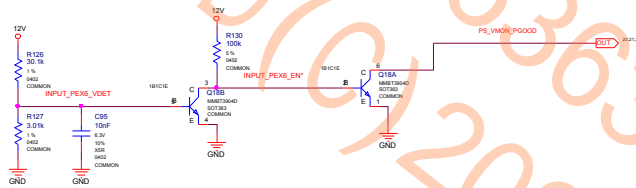


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SEQUENCE:Voltage Monitor

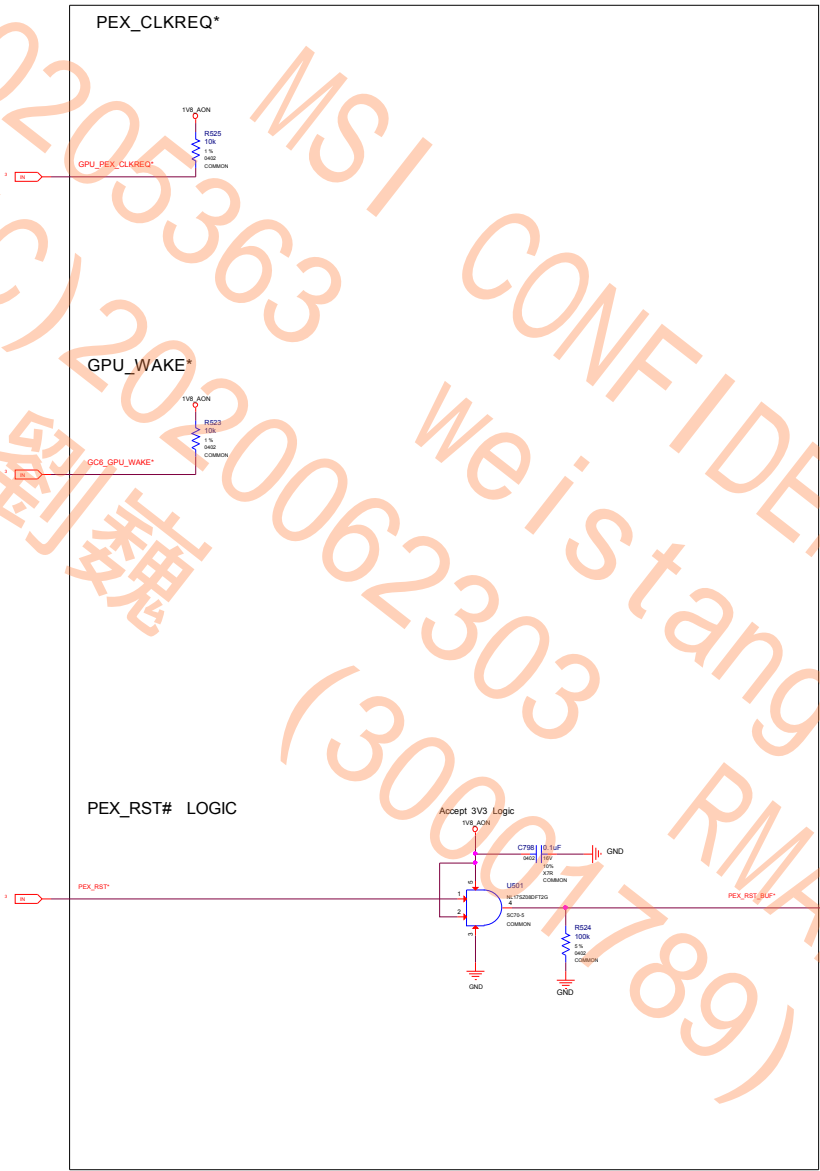


Route the trace to PEV Golden Finger

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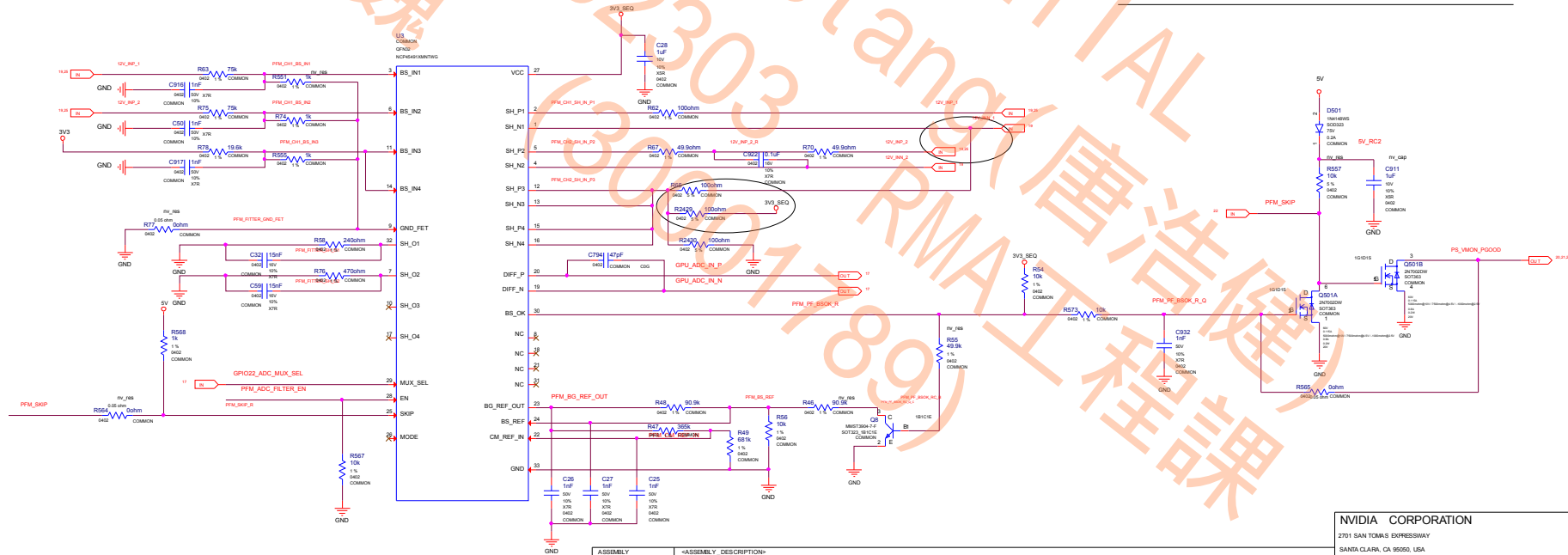
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PWR SENSE

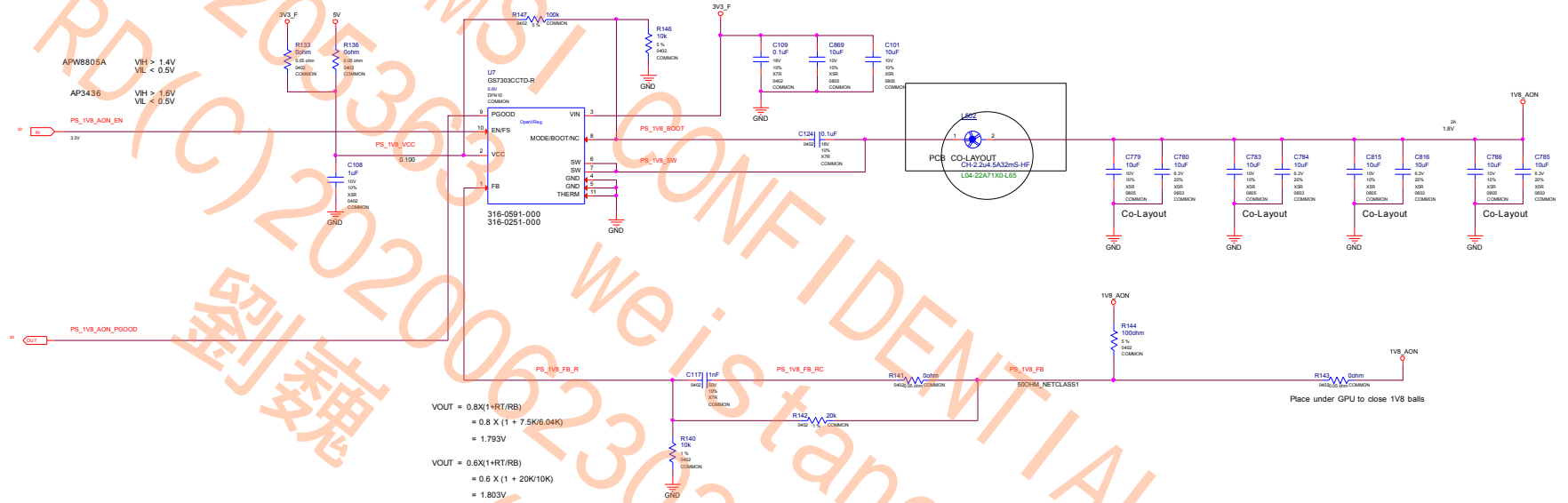


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PS: 1V8



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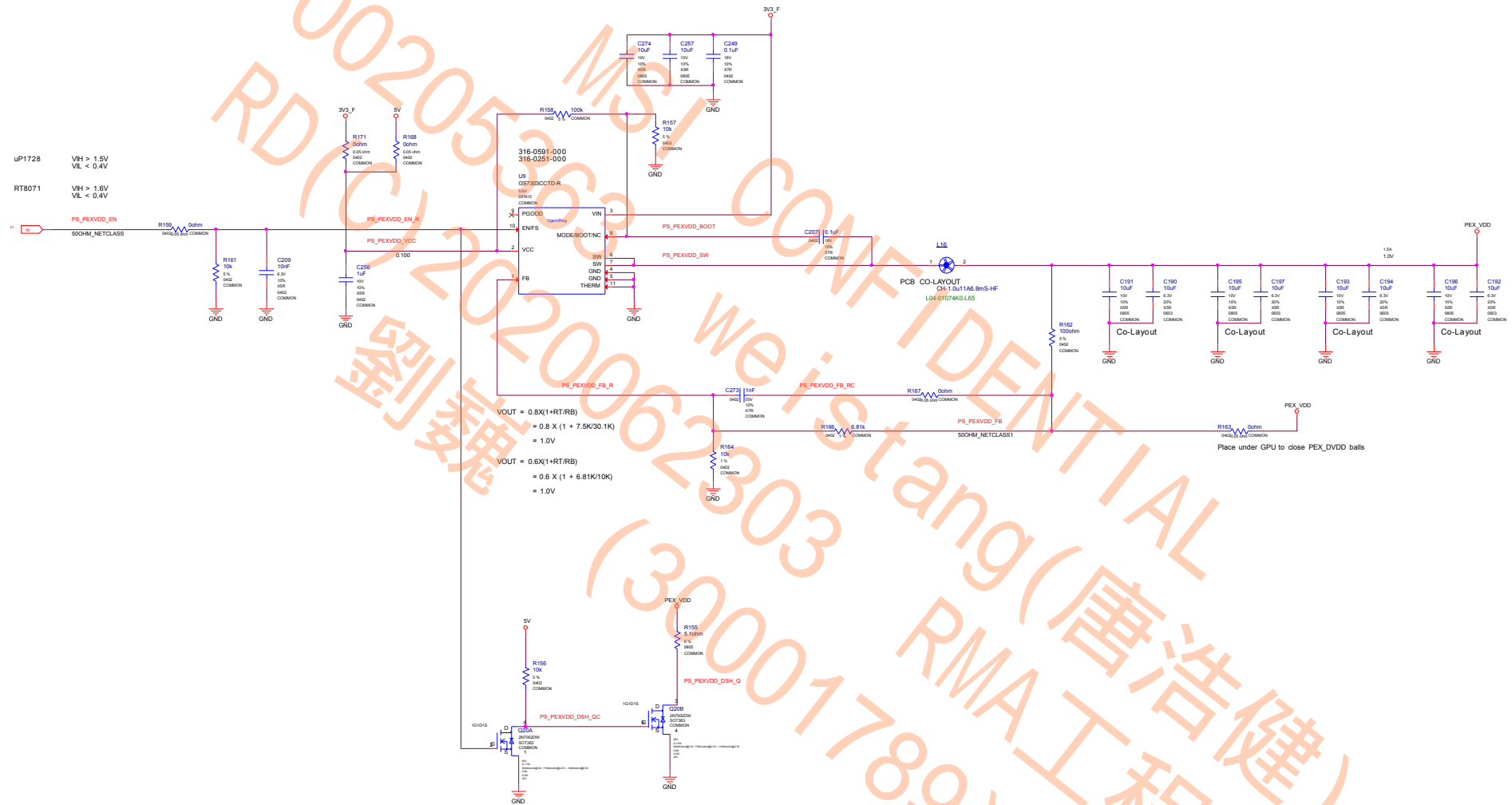



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PS: PEXVDD

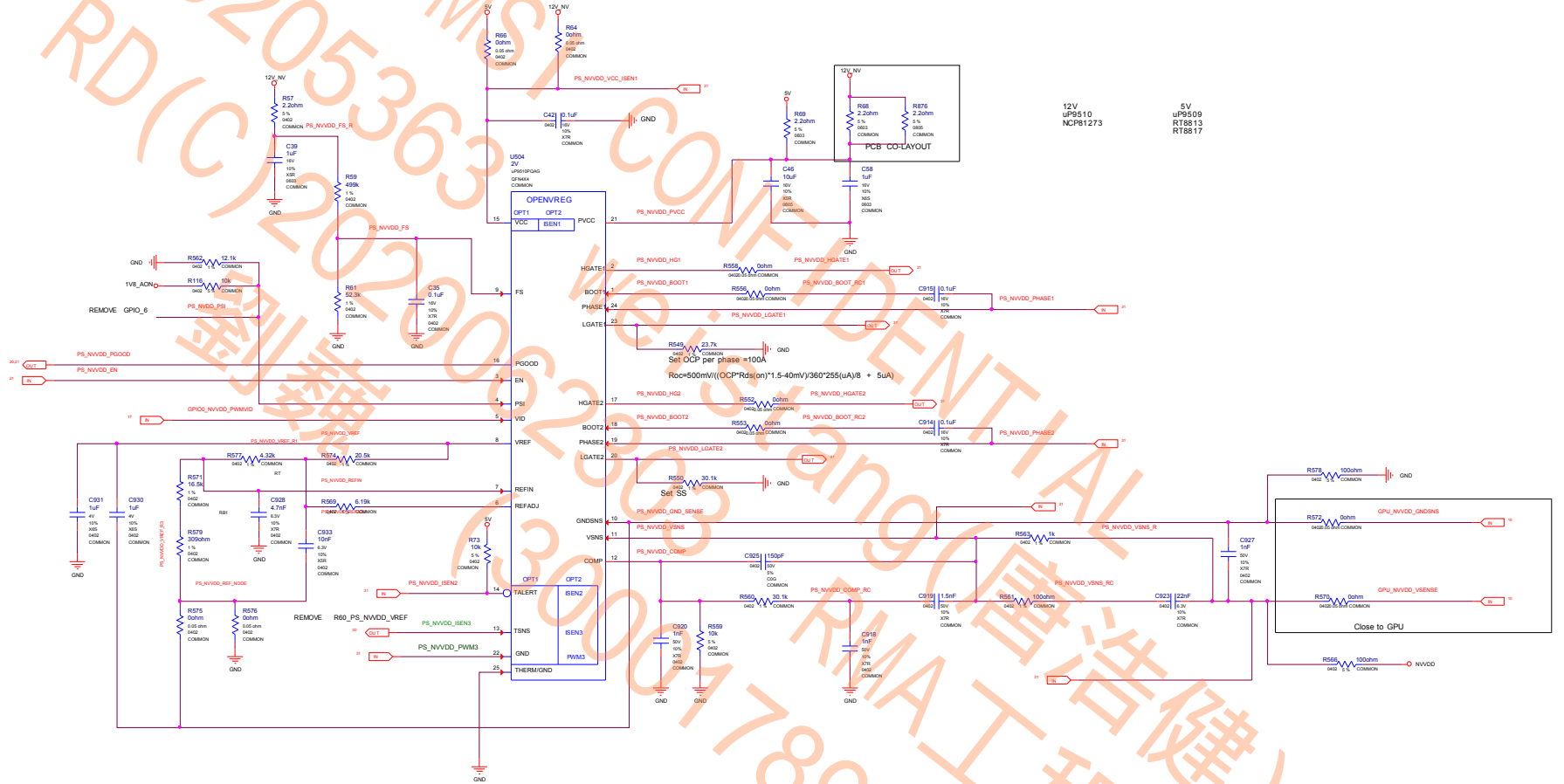


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PS: NVVDD OVR2+1

NCP81273 EN VH>1.5V, VL<0.7V
UP950910 EN VH>1.2V, VL<0.6V
RT8817A EN VH>1.2V, VL<0.6V



NVPN	Name	PVCC(21)	VCC(15)	
316-0478-000	NCP81273	12V	LDO_OUT	<--Default
316-0476-000	UP9510	12V	ISENSE	<--2nd source
316-0484-000	RT8817A	5V	NC	

ASSEMBLY	ASSEMBLY DESCRIPTION
PS: NVVDD OVR2+1	

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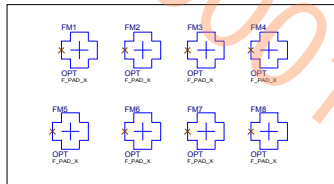
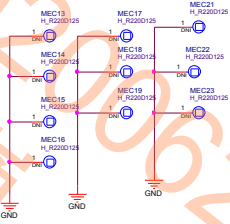
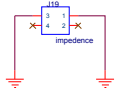
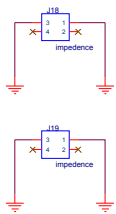
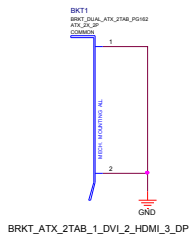
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Mechanical: Bracket/Thermal Solution

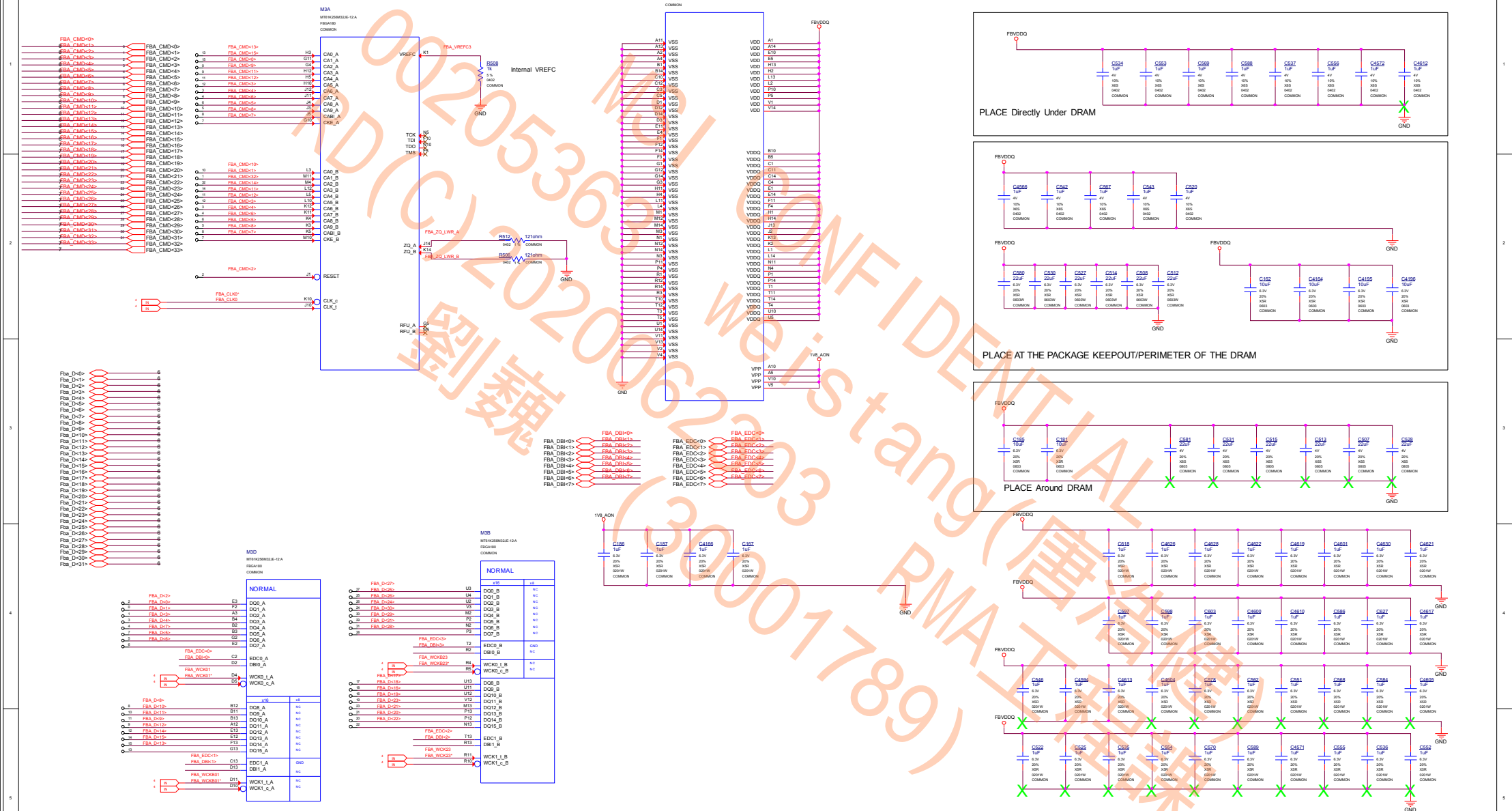
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MEMORY: FBA Partition 31..0



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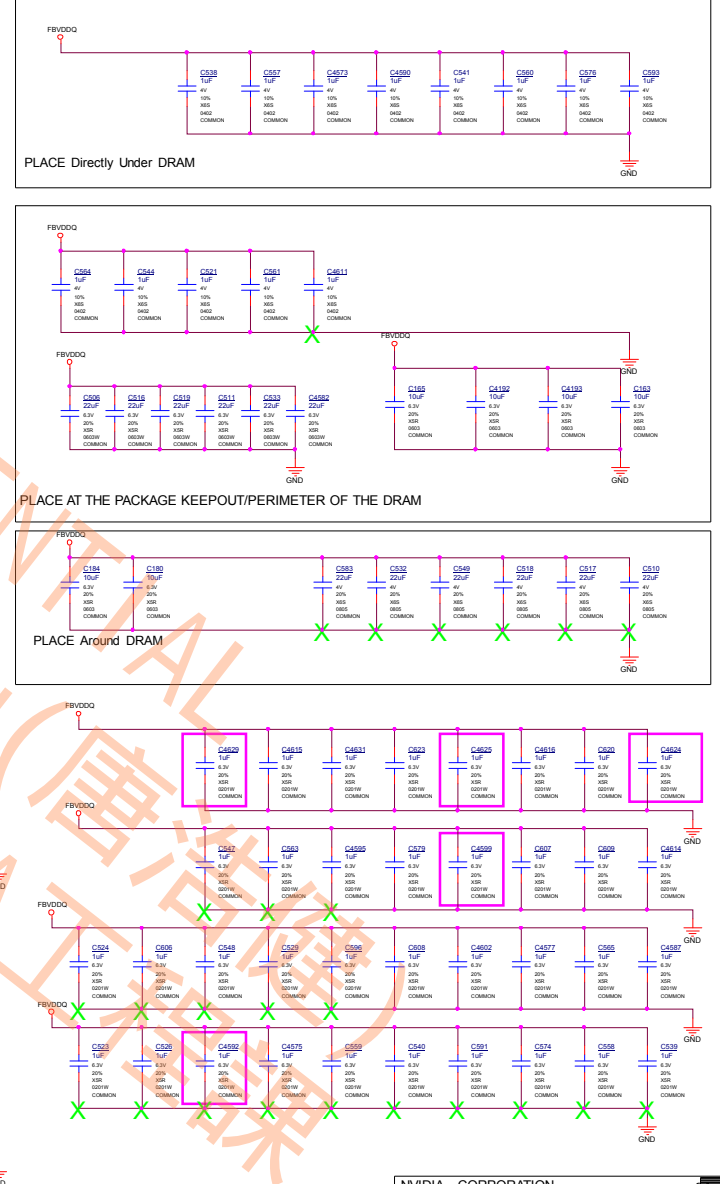
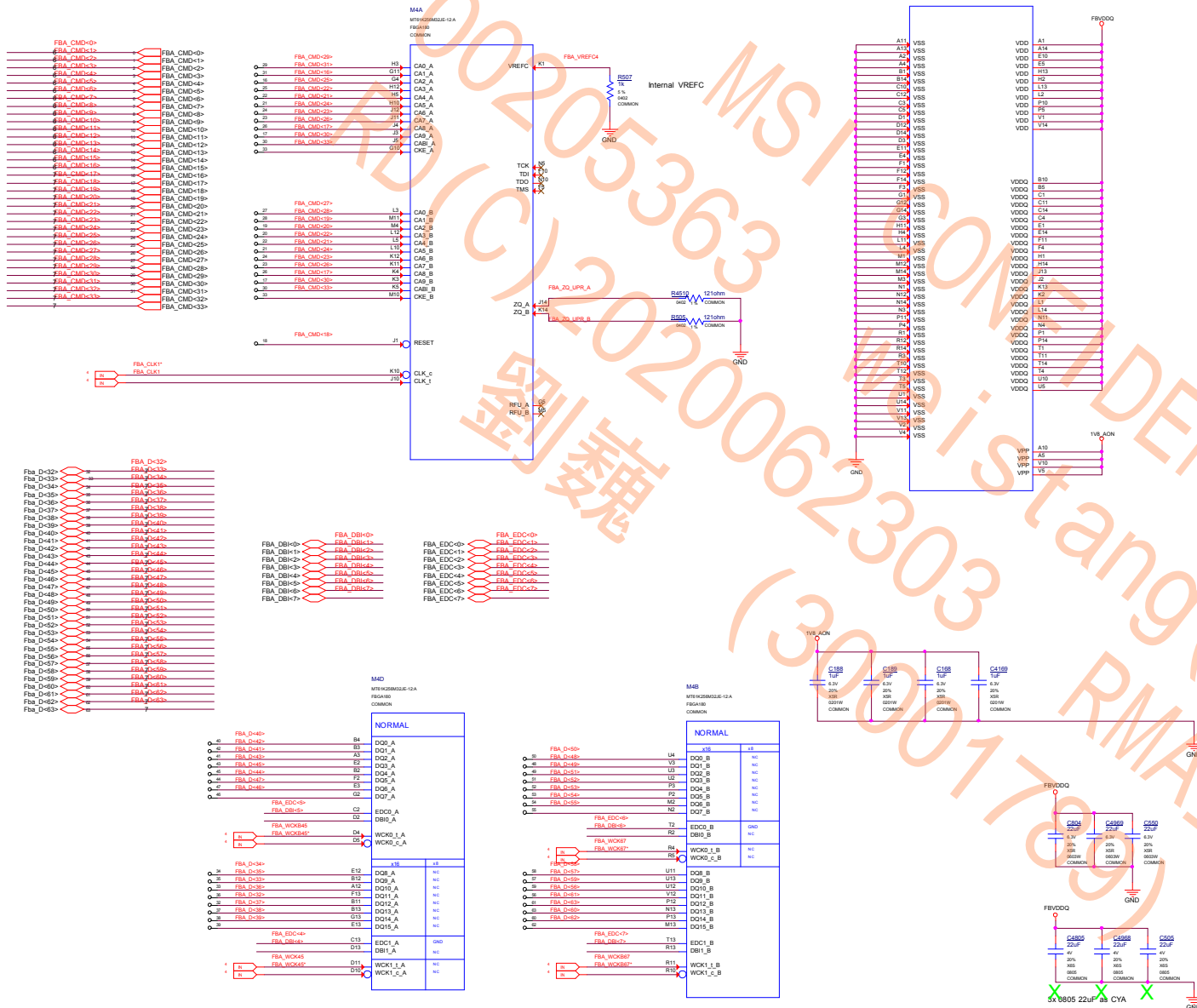


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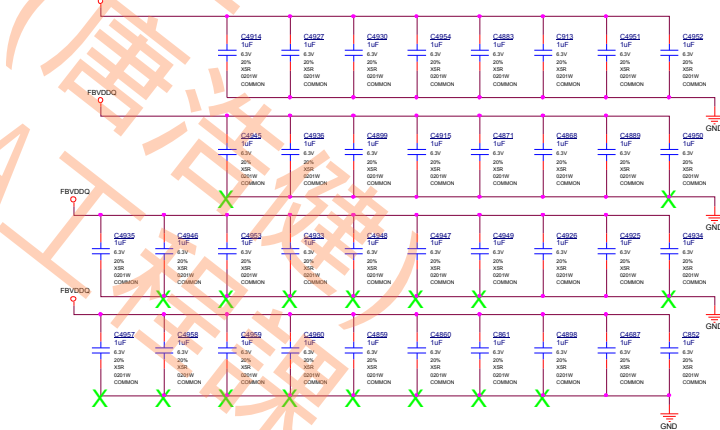
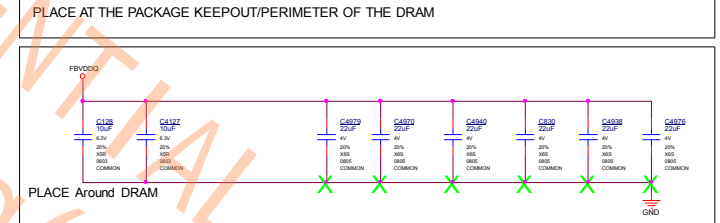
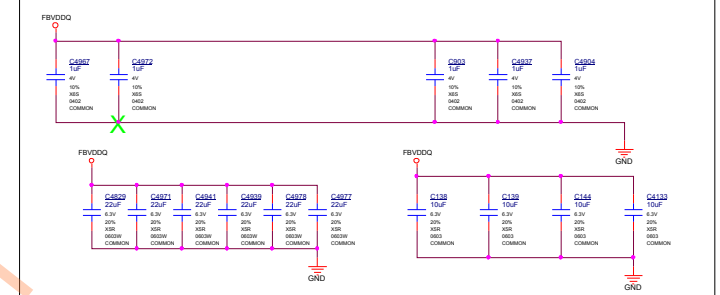
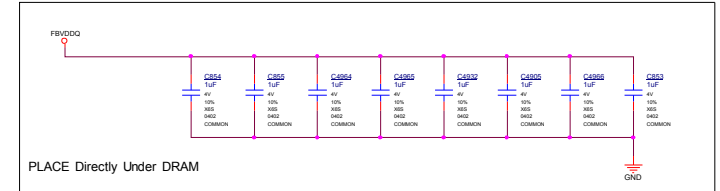
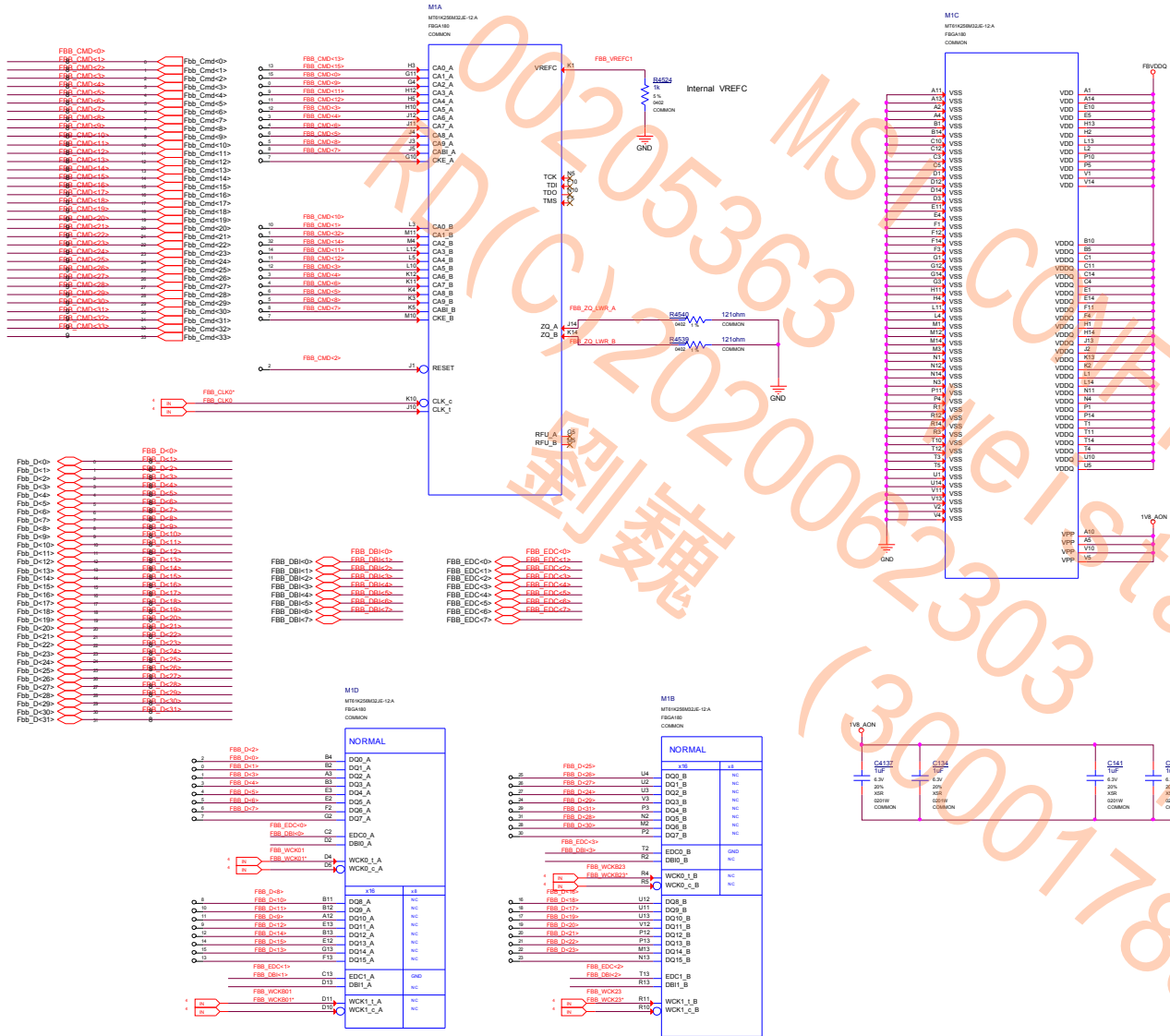


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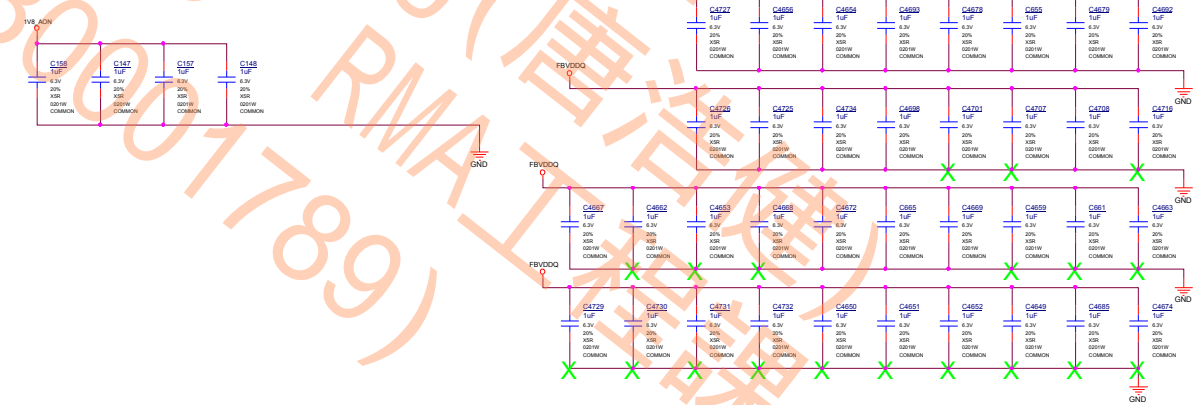
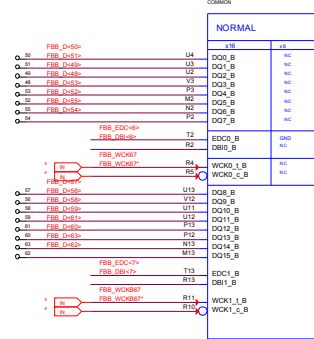
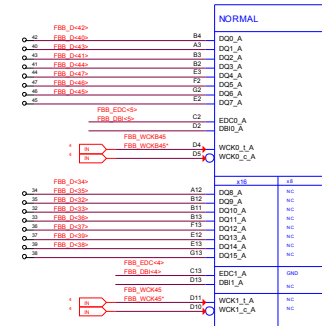
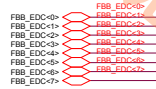
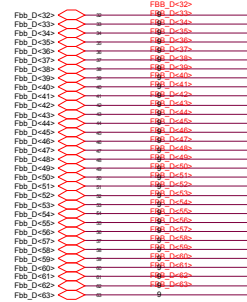
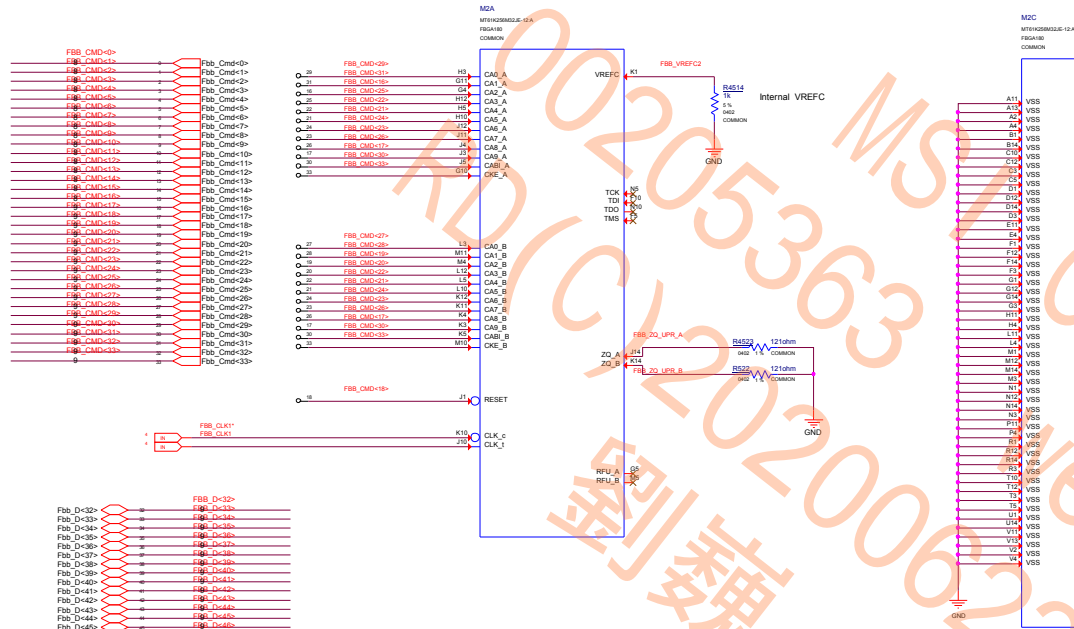
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