

PG611 A00

10GB GDDR5X, 320b, 256Mx32

DP + DP + HDMI/DP + DP

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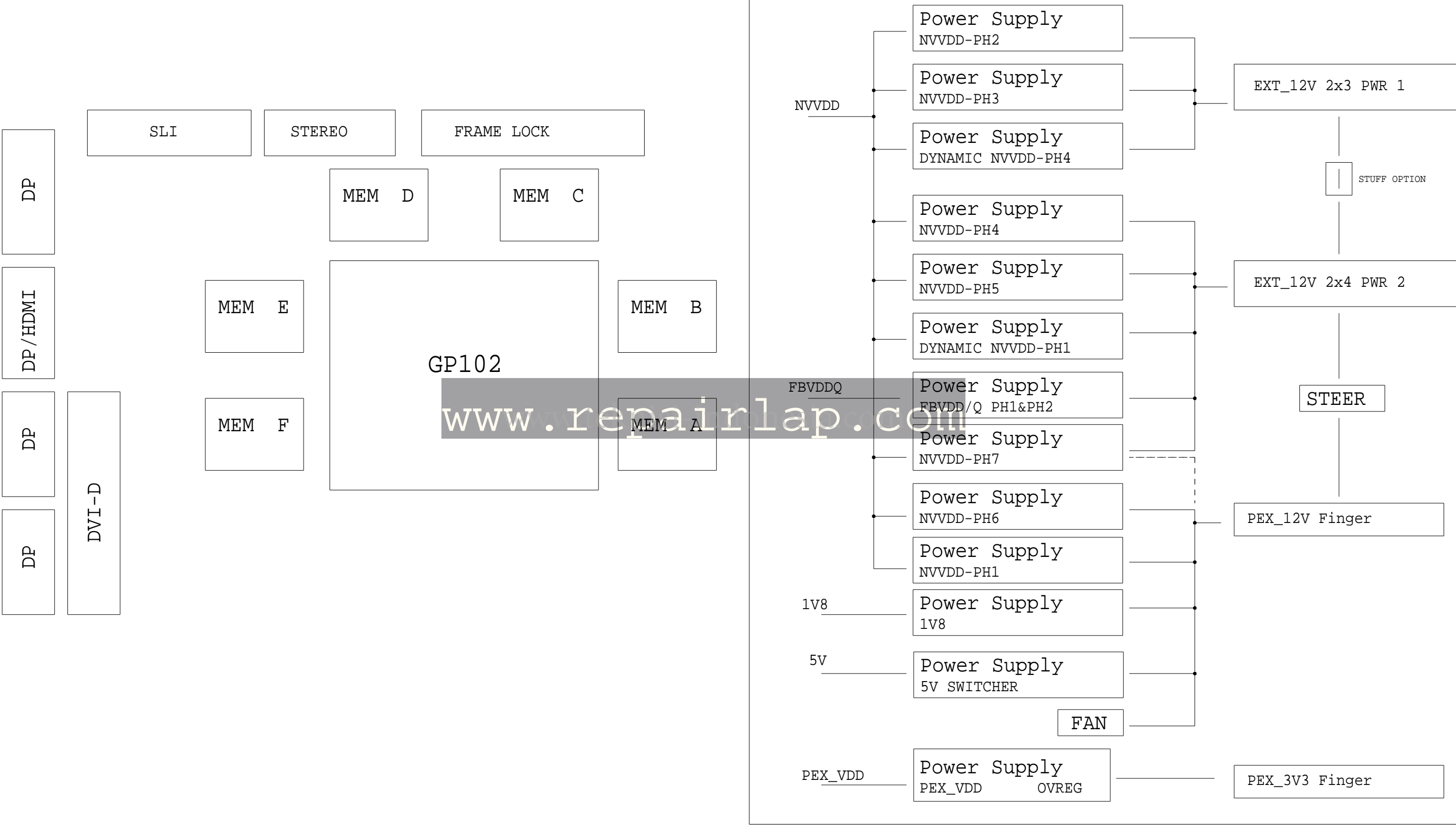
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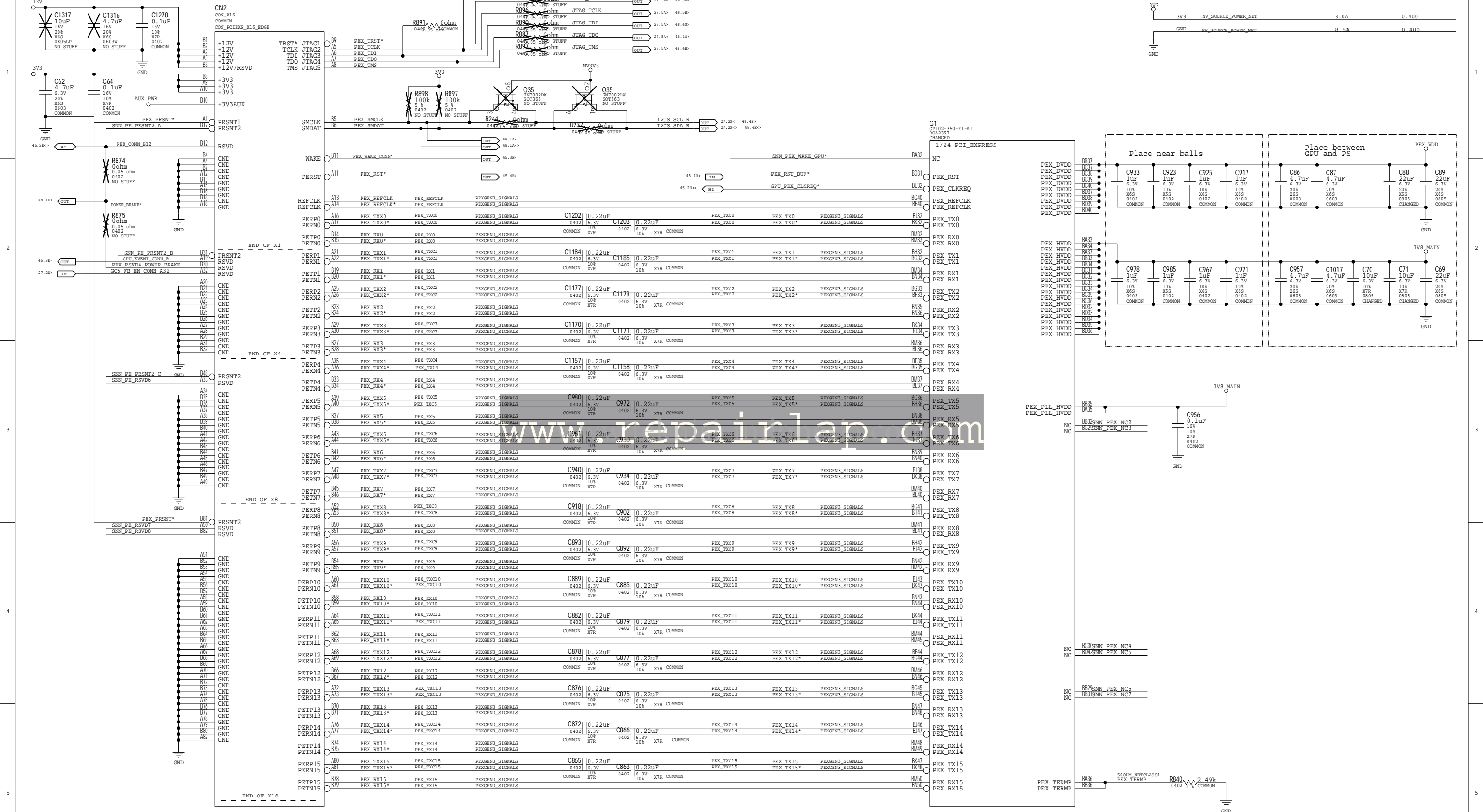
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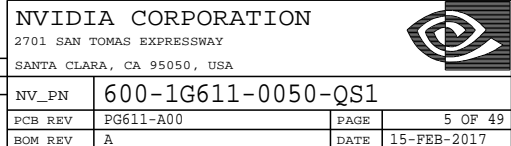
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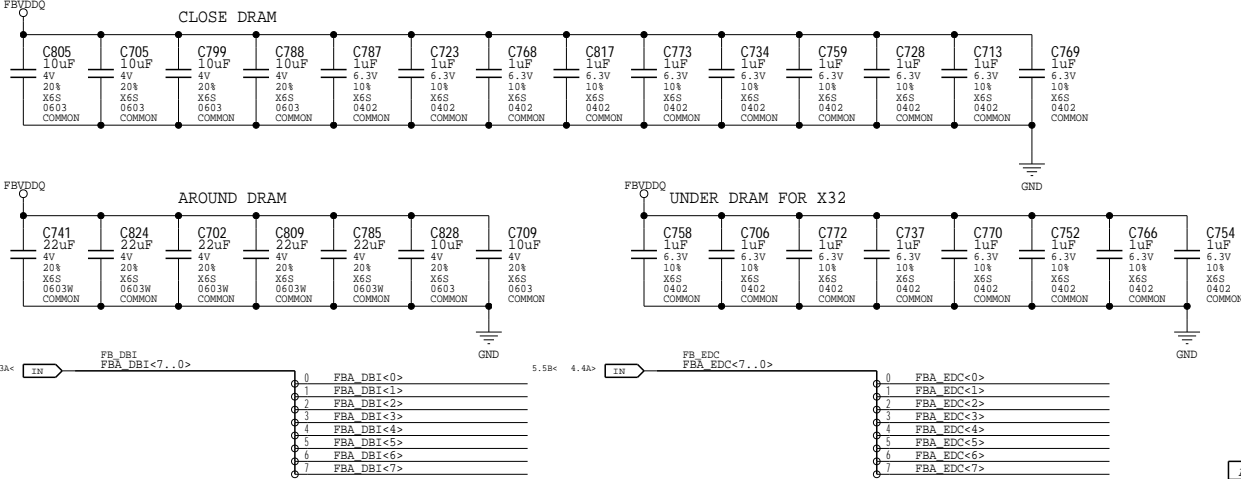
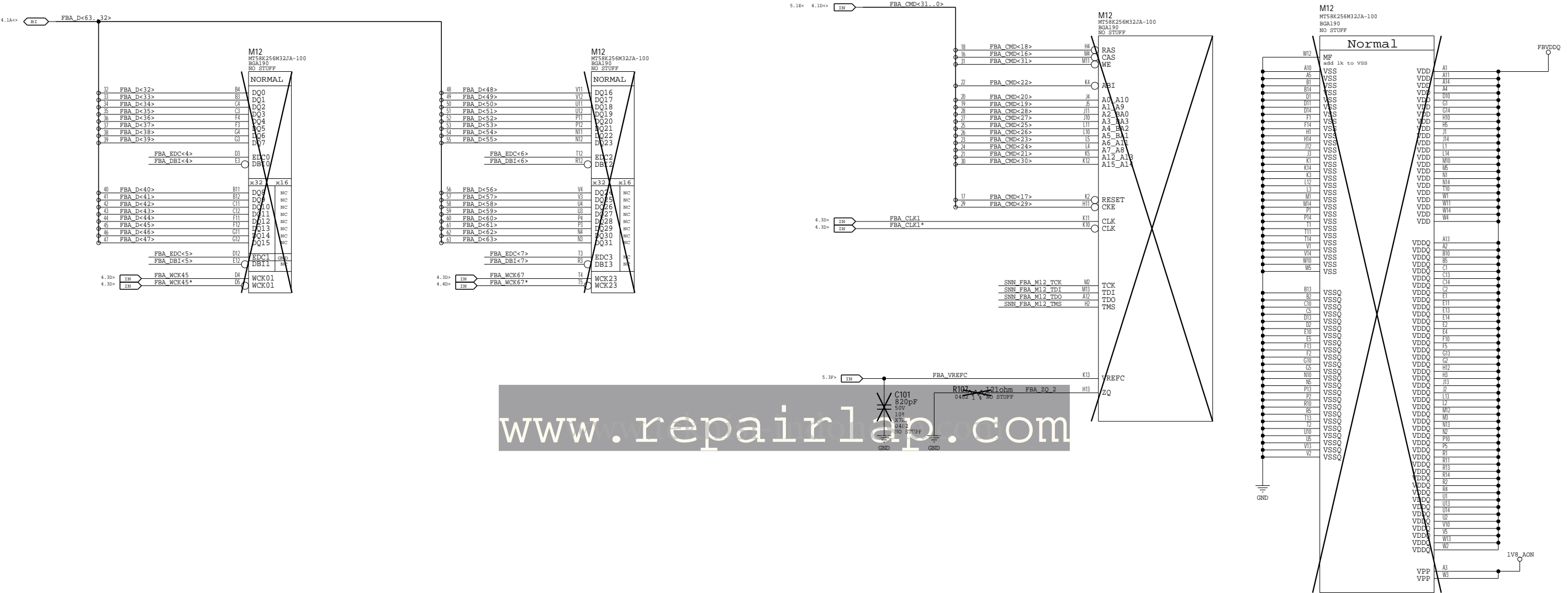
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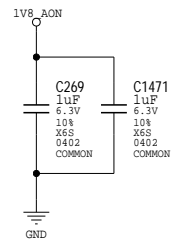
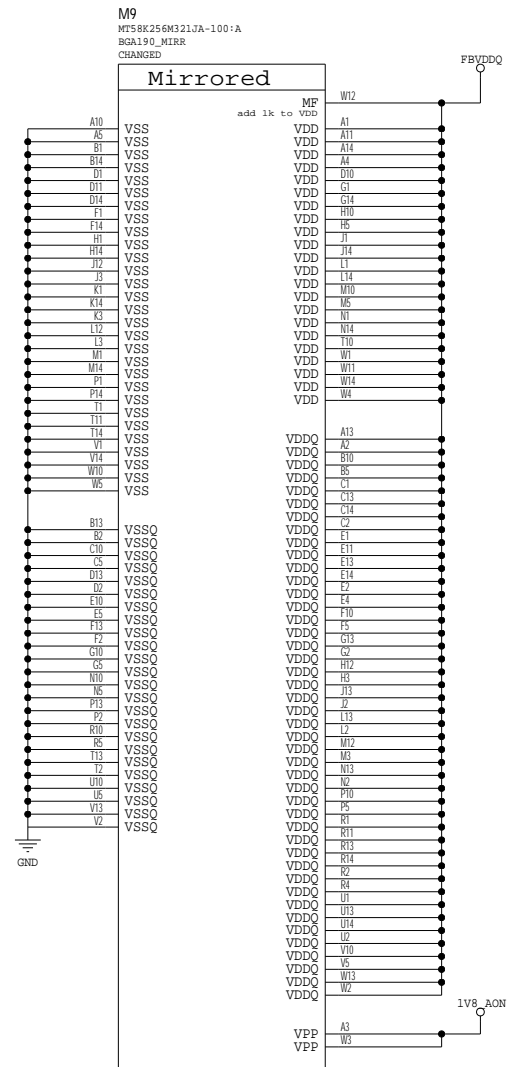
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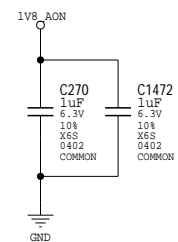
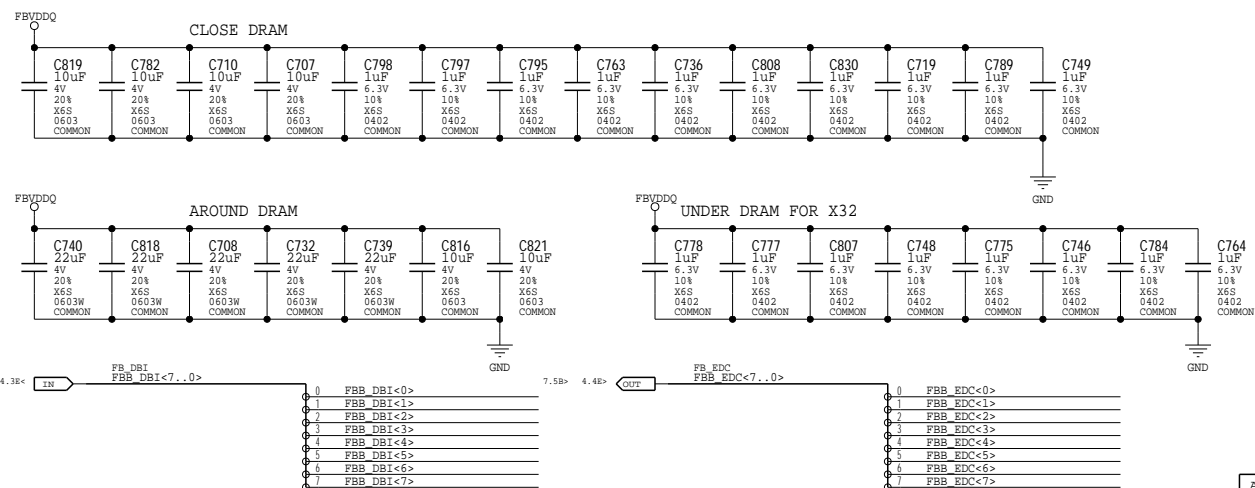
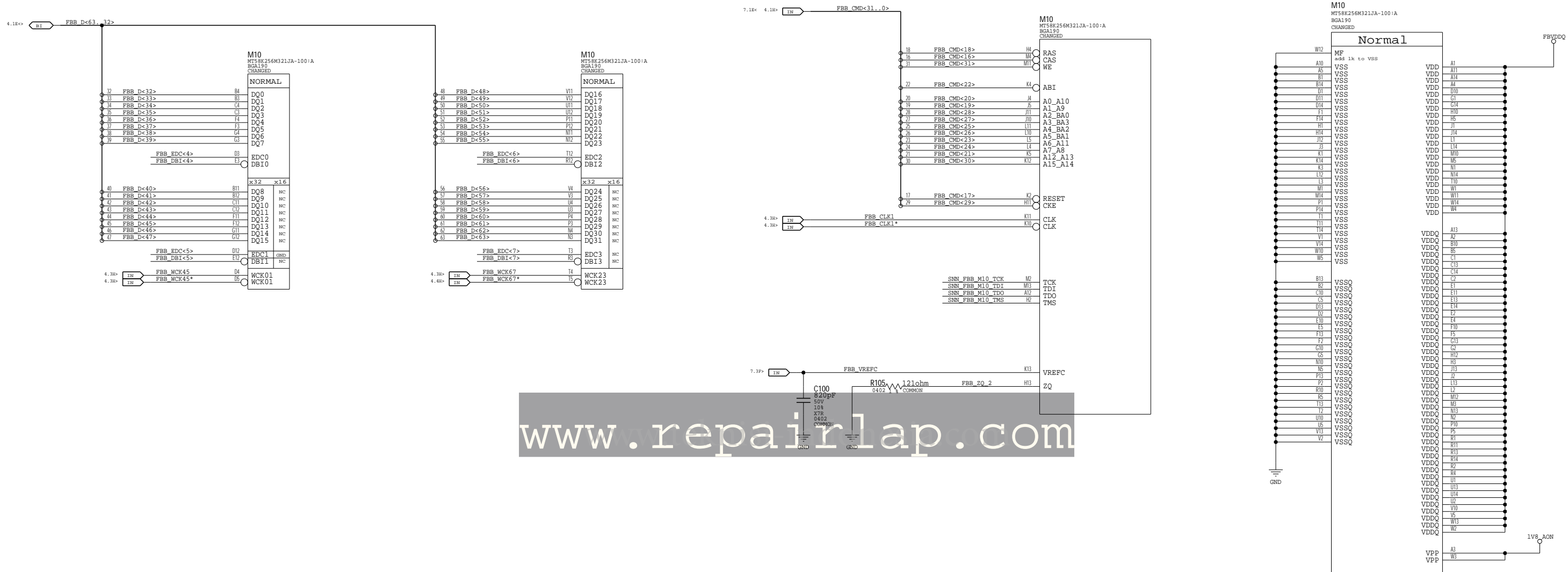
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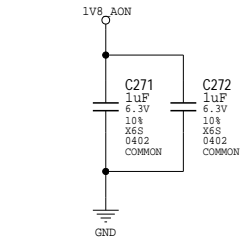


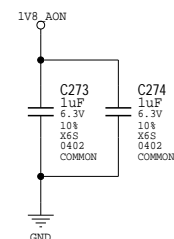
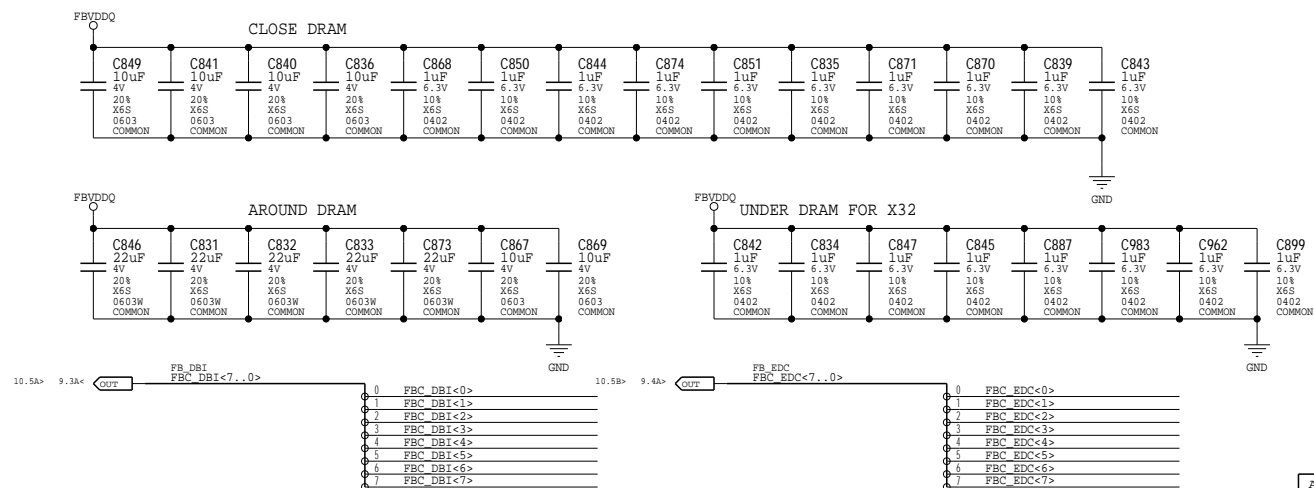
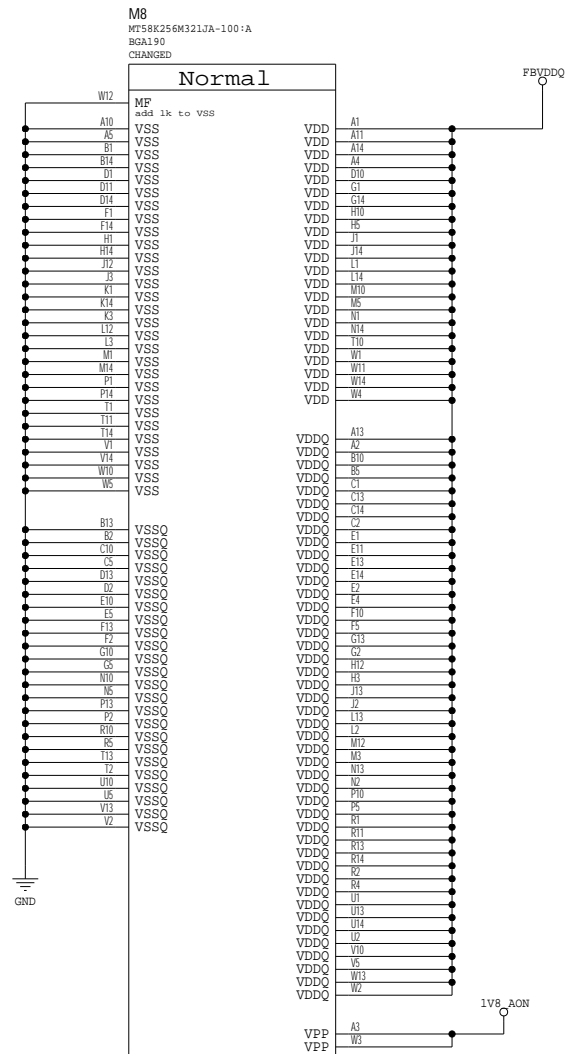
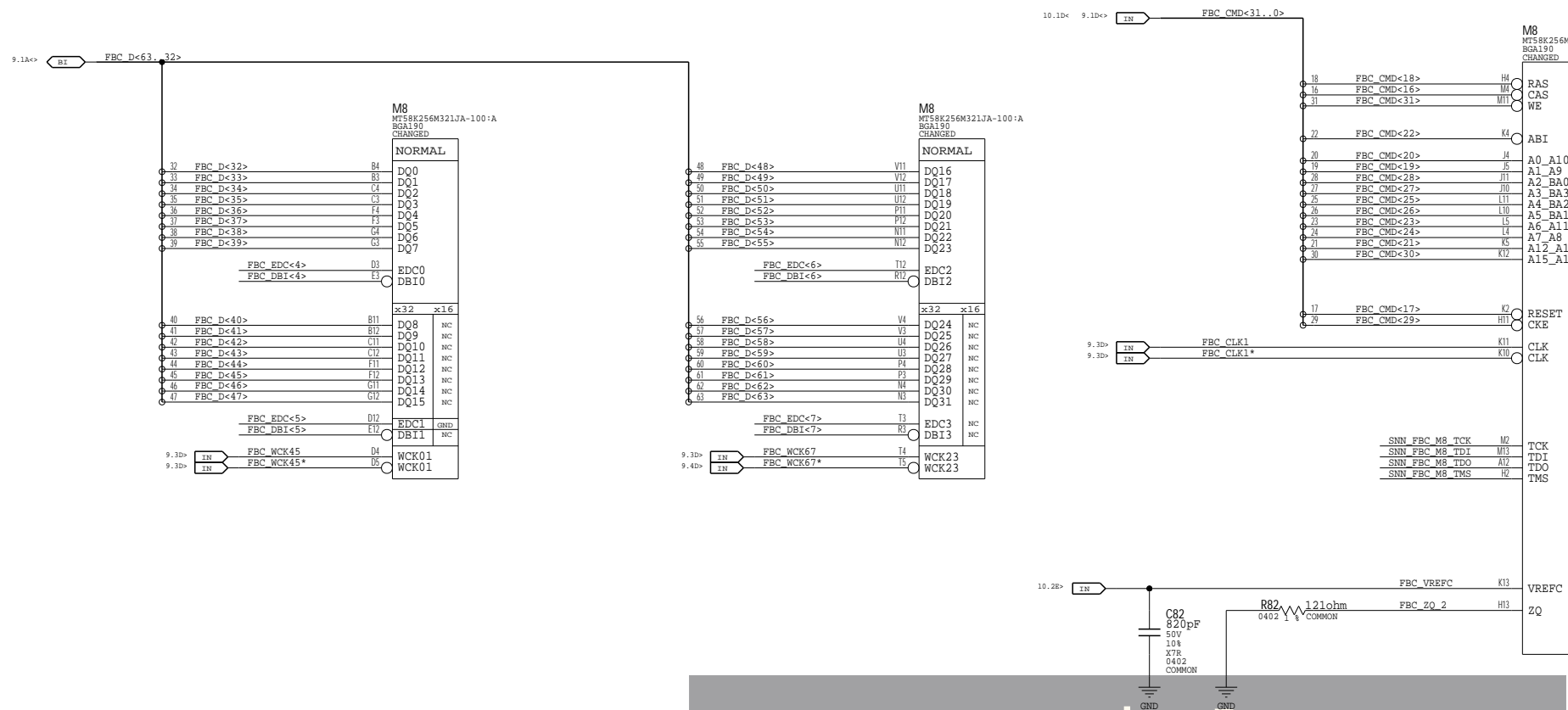


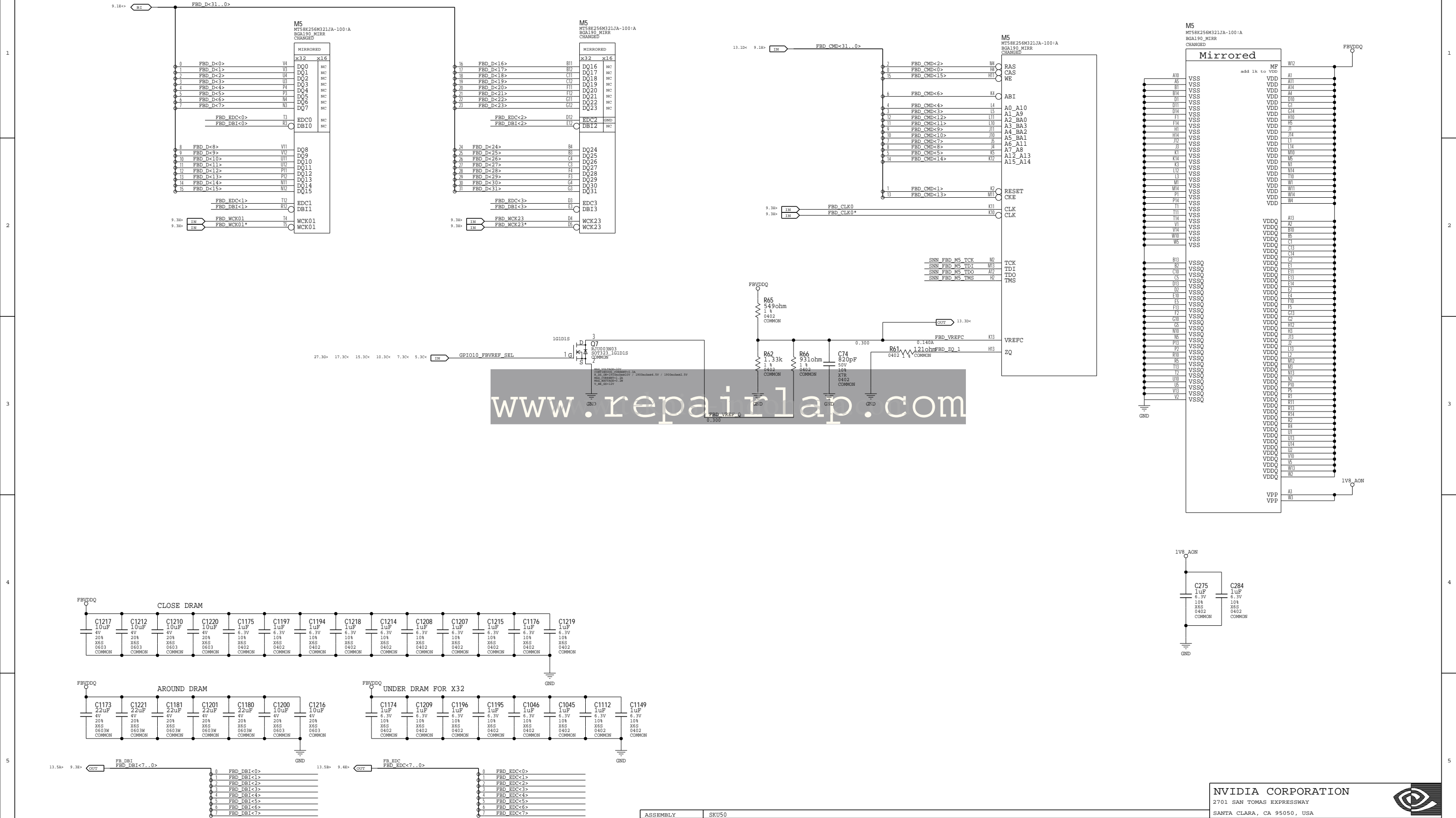












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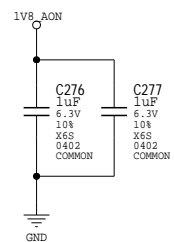
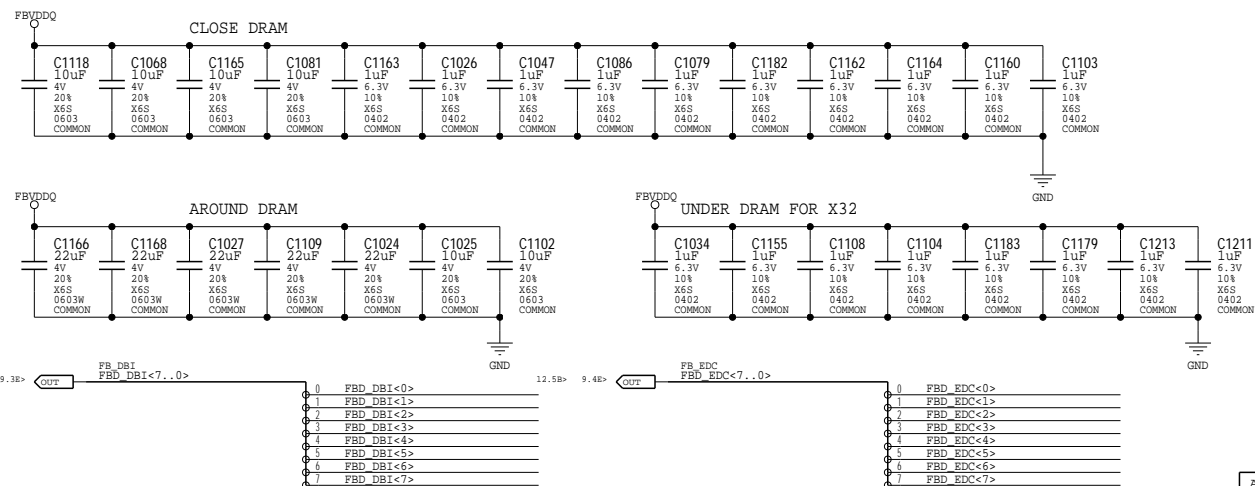
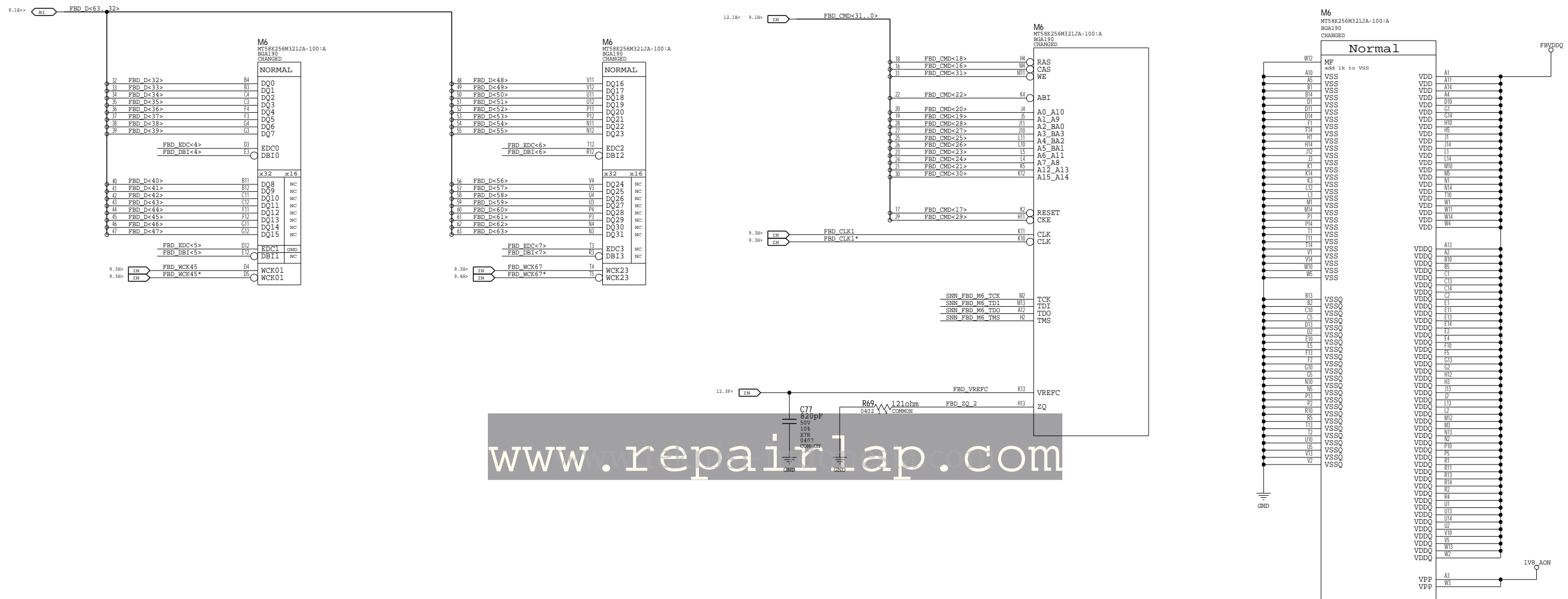
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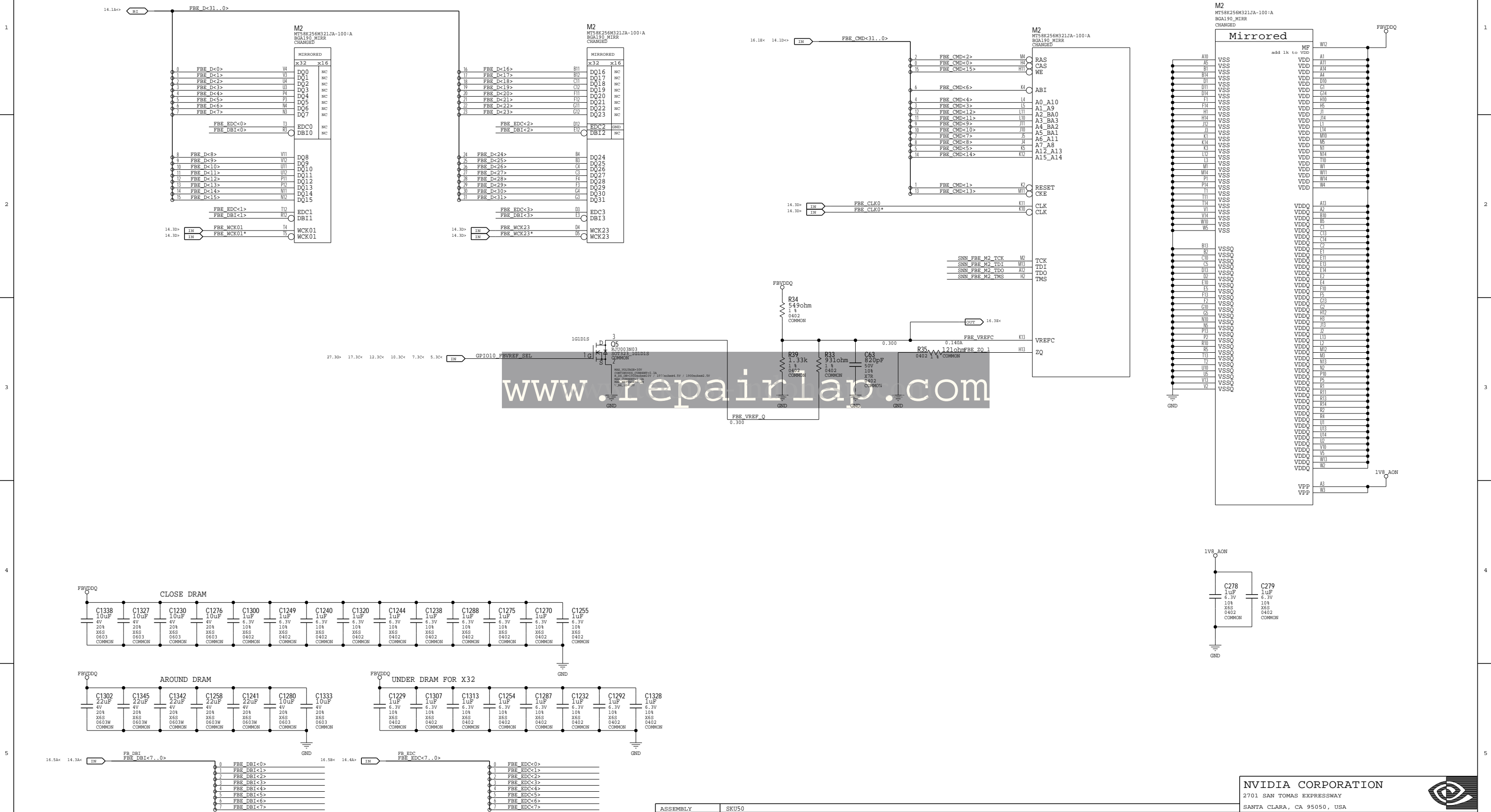


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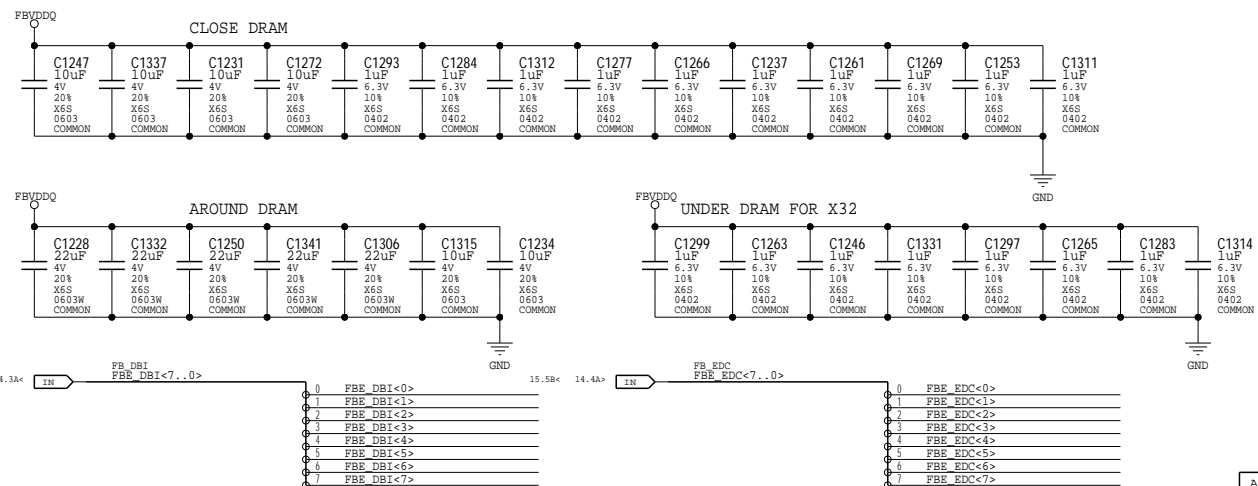
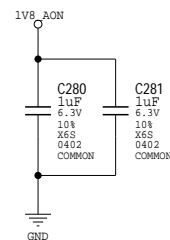
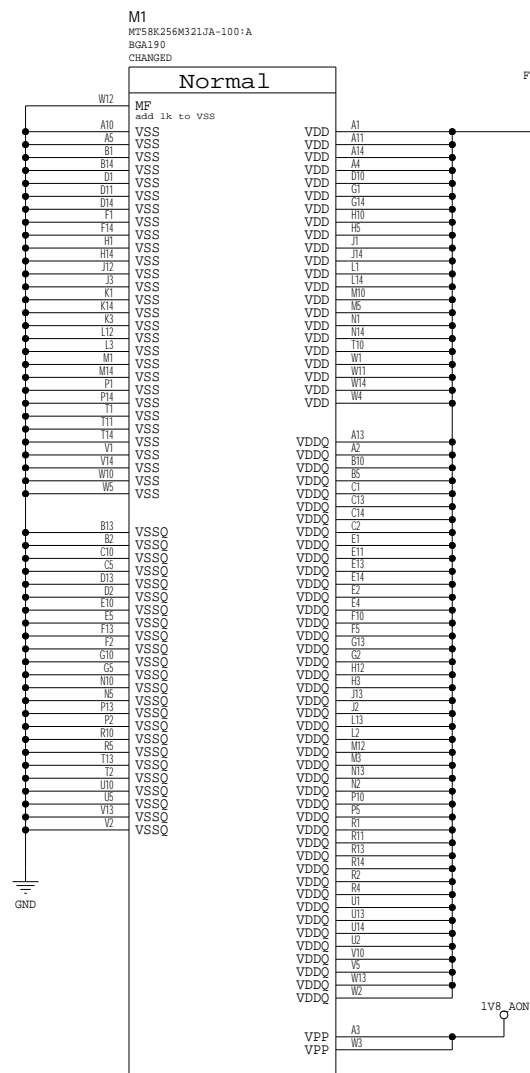
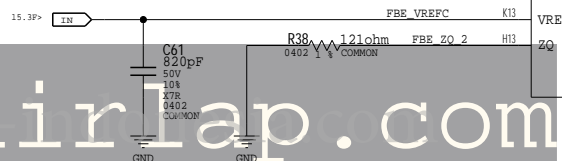
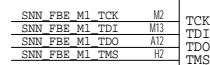
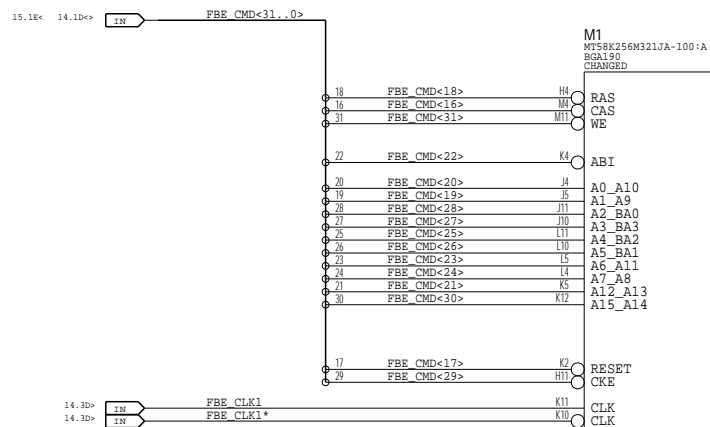
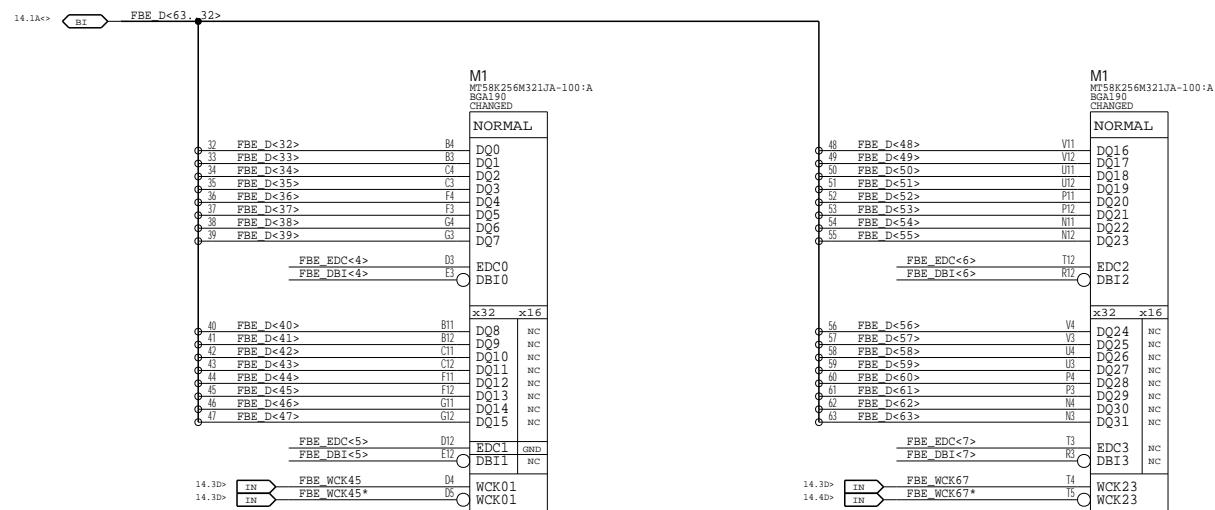
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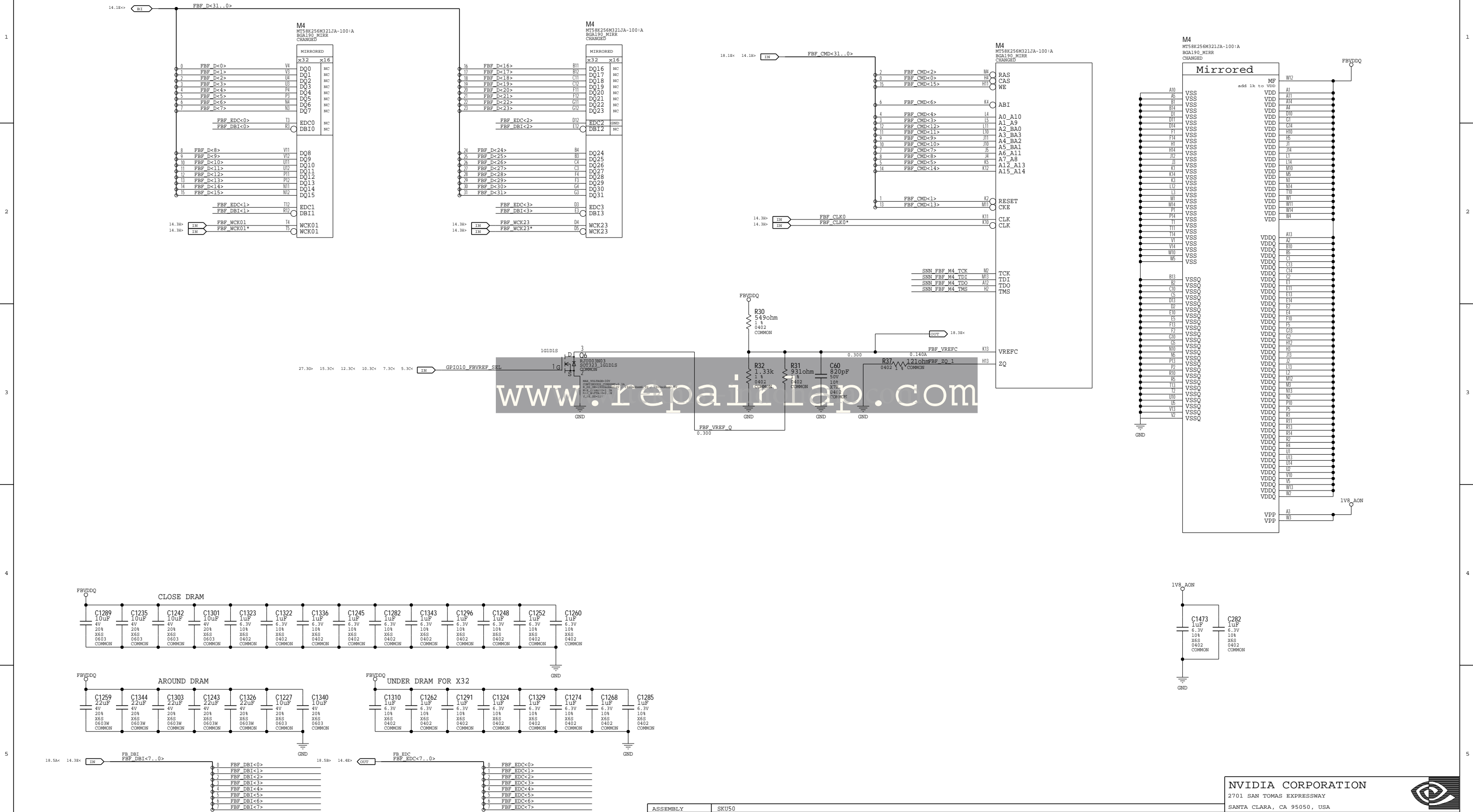
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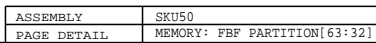
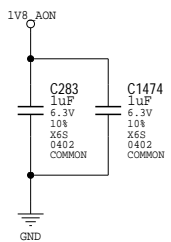
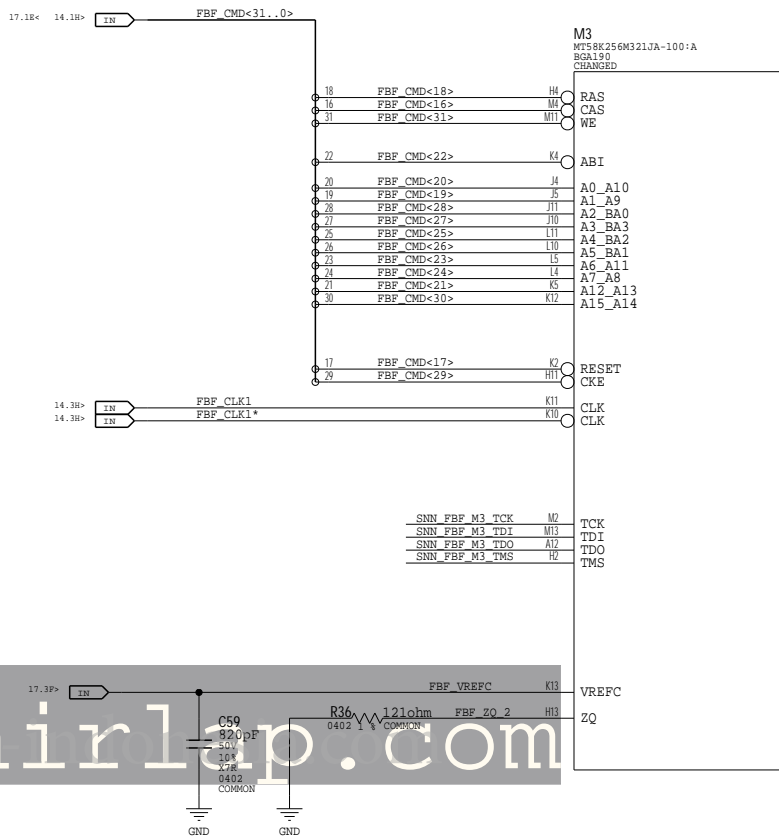
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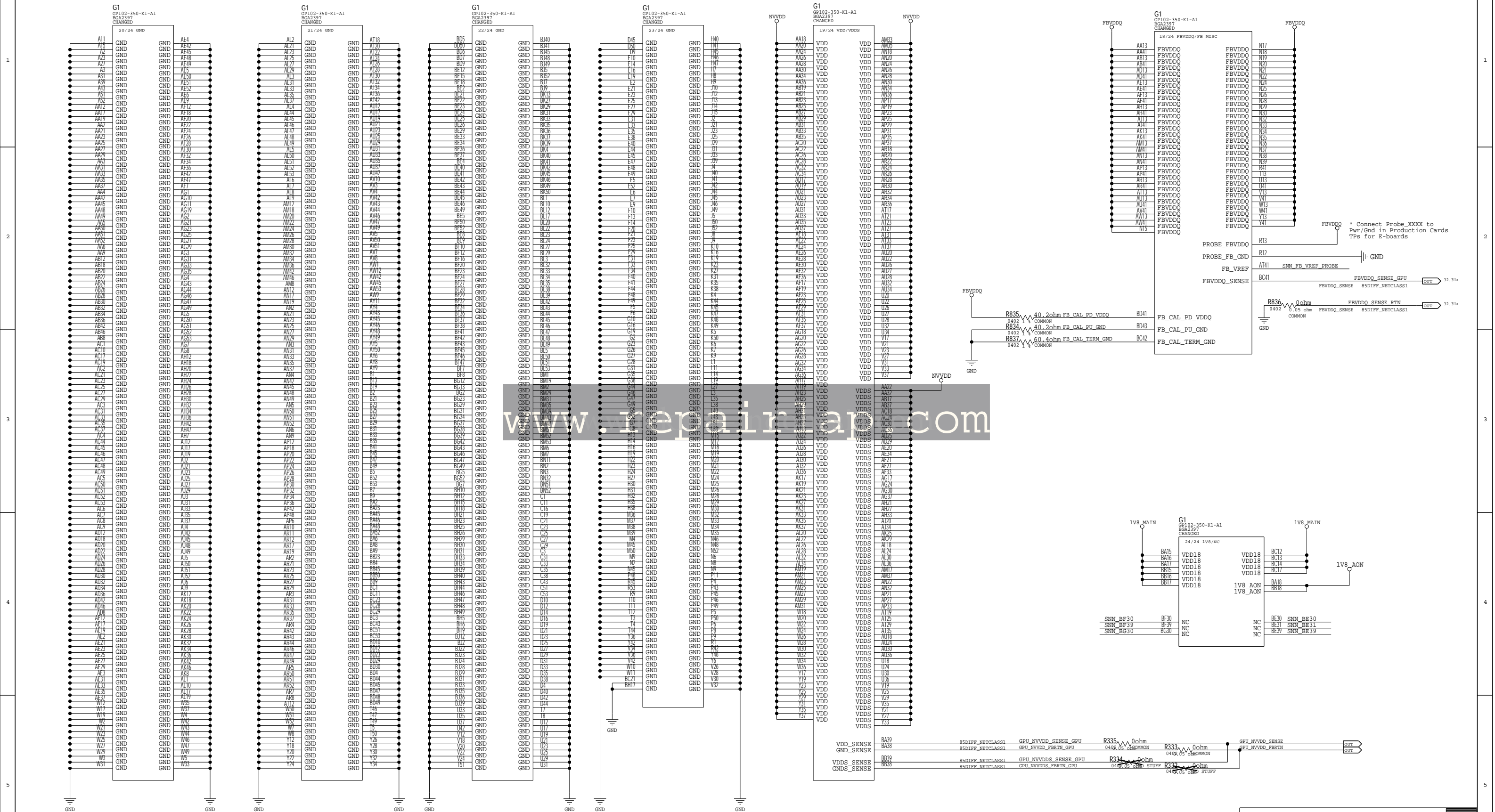


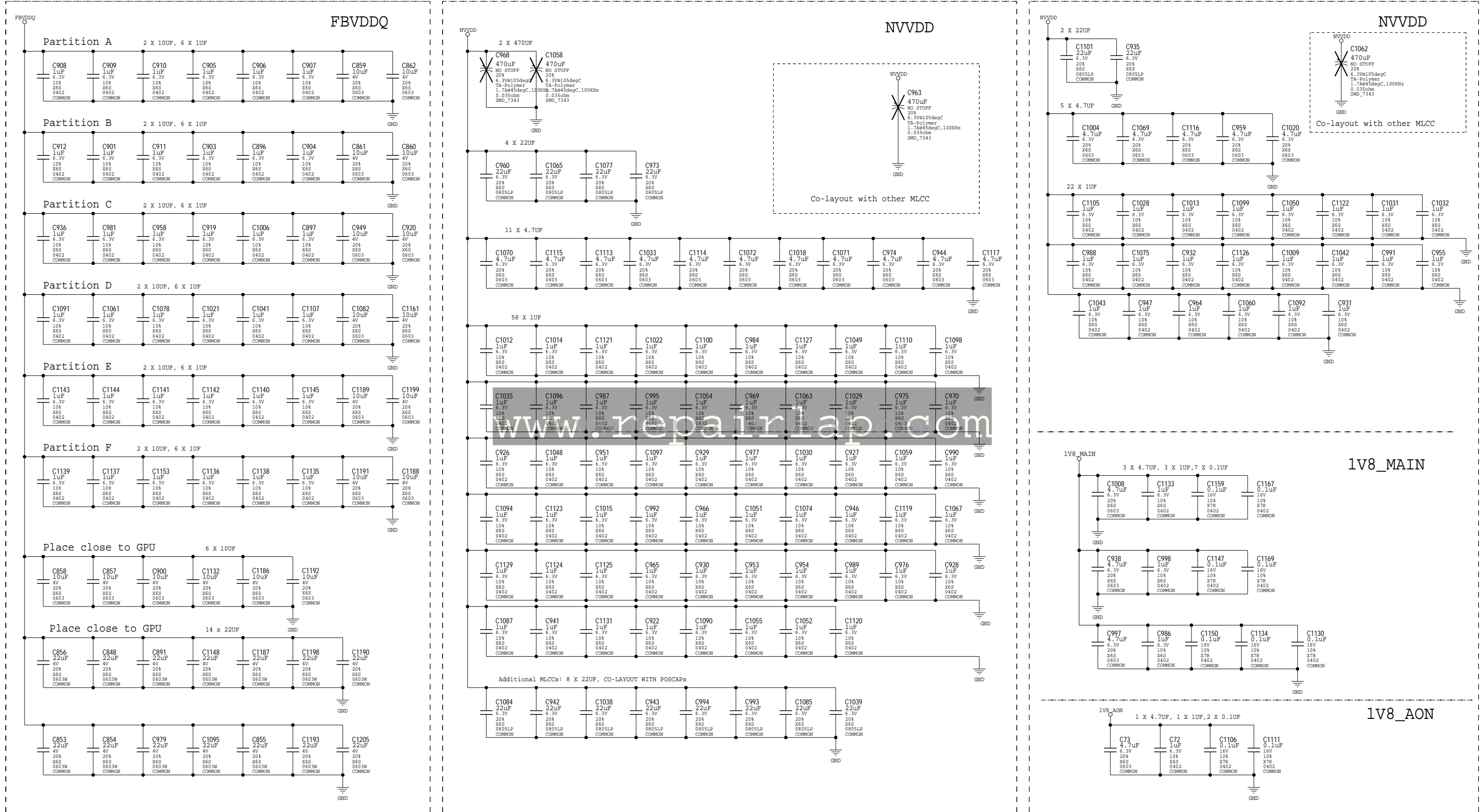
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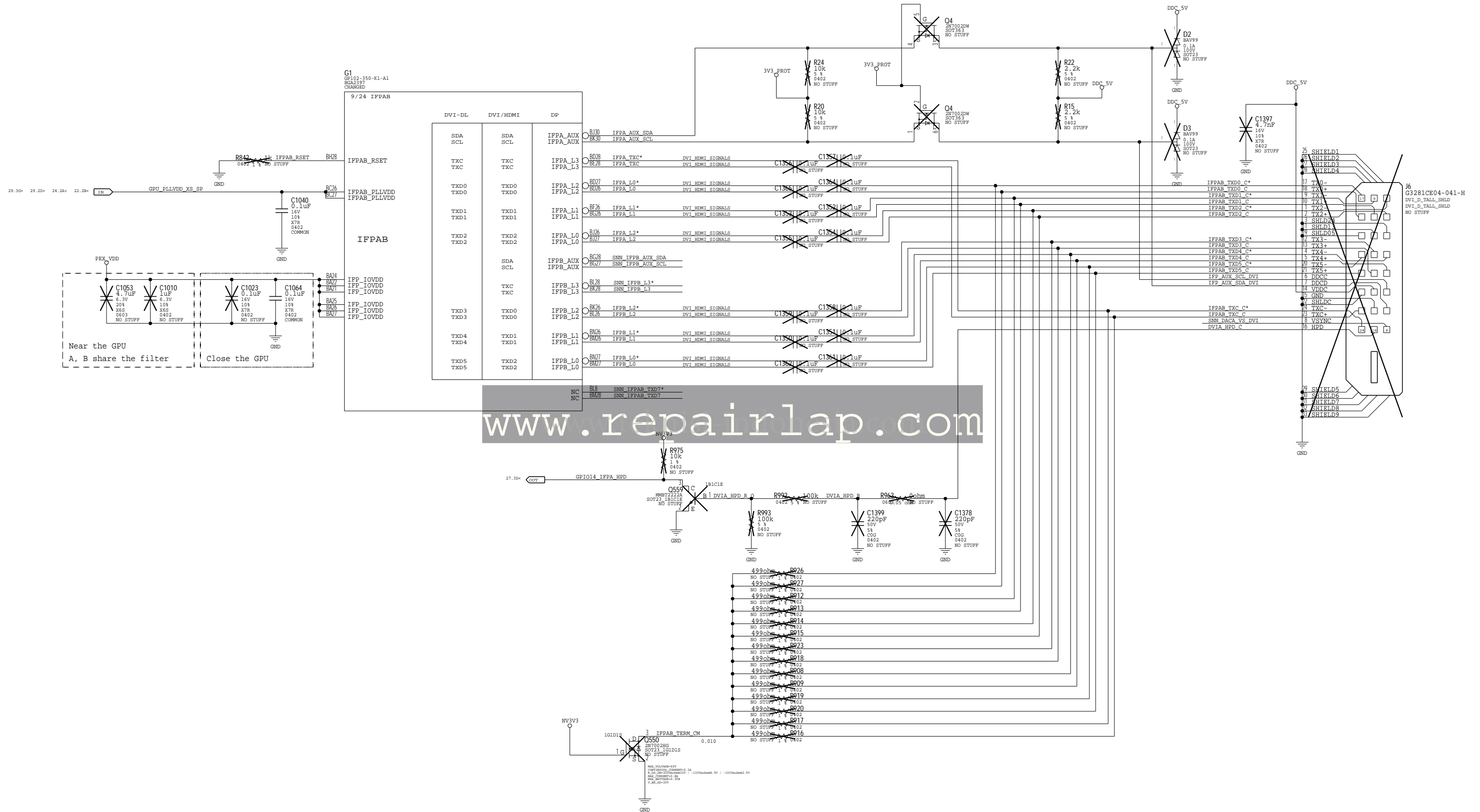
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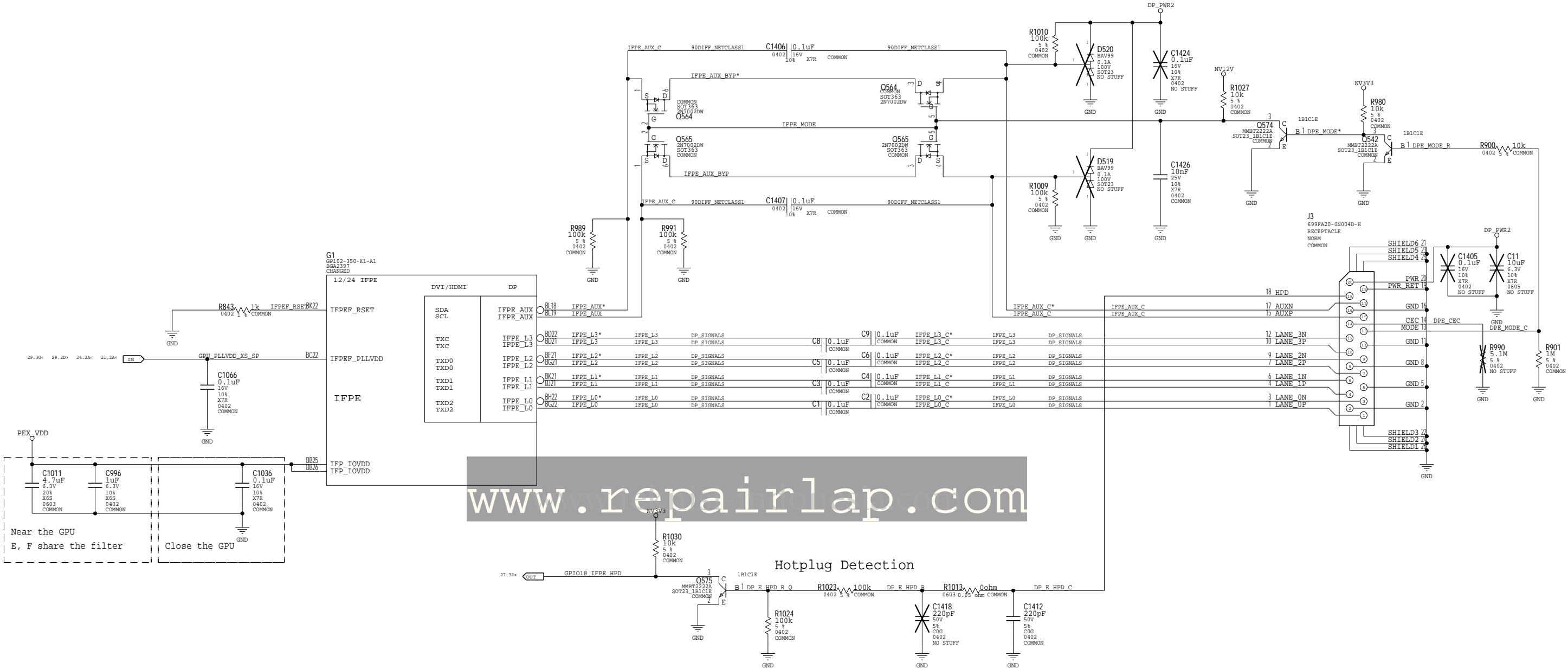
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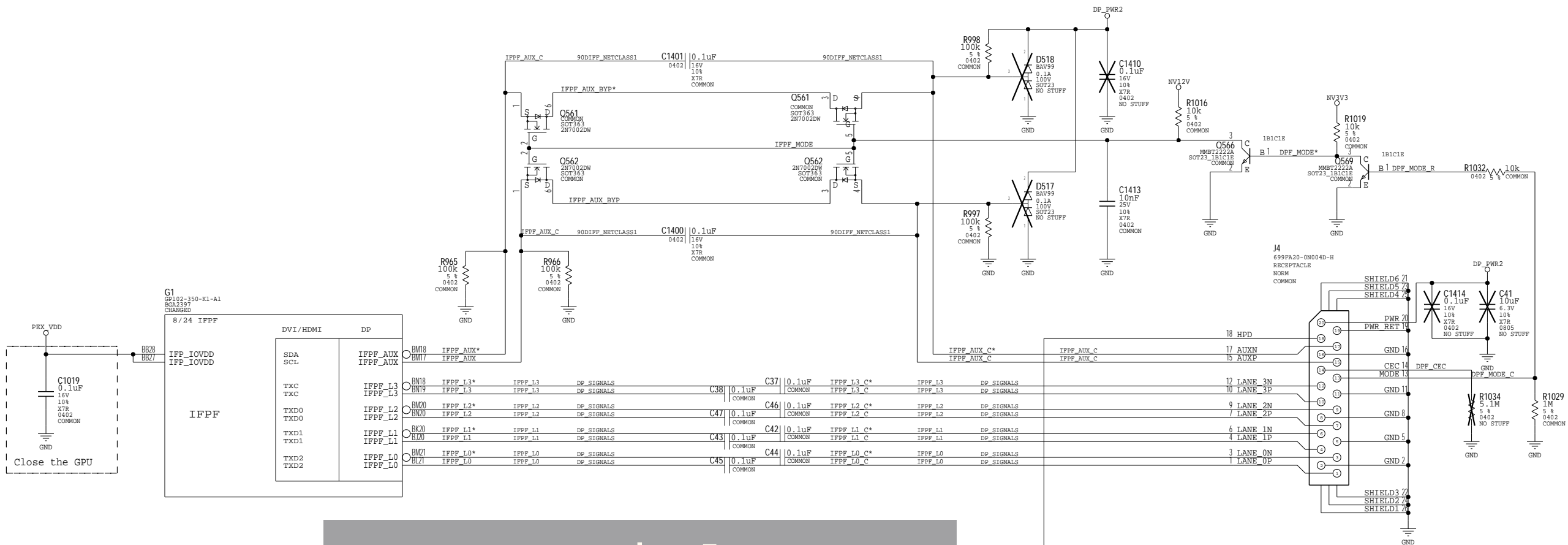
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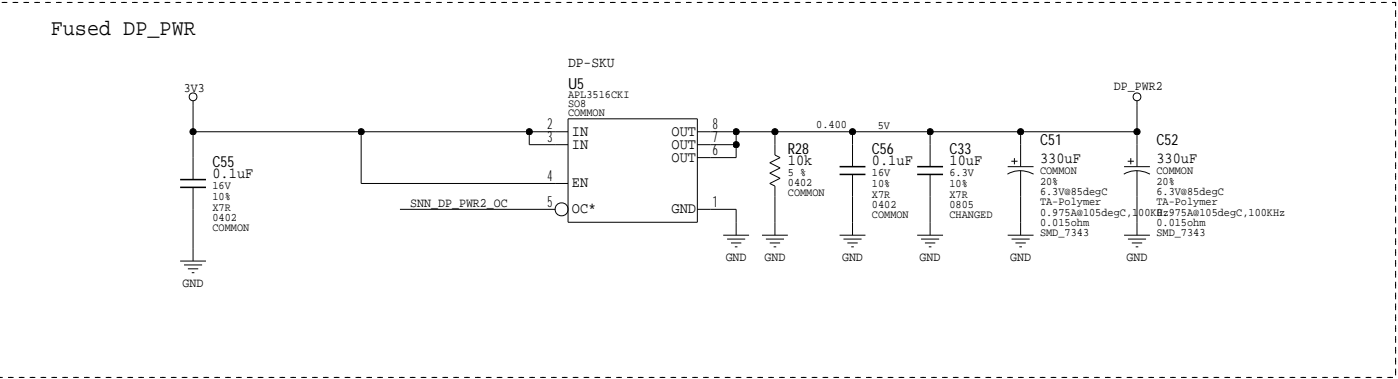
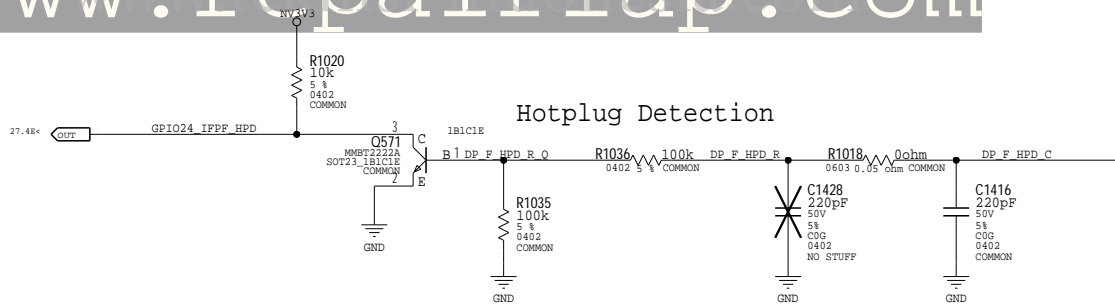


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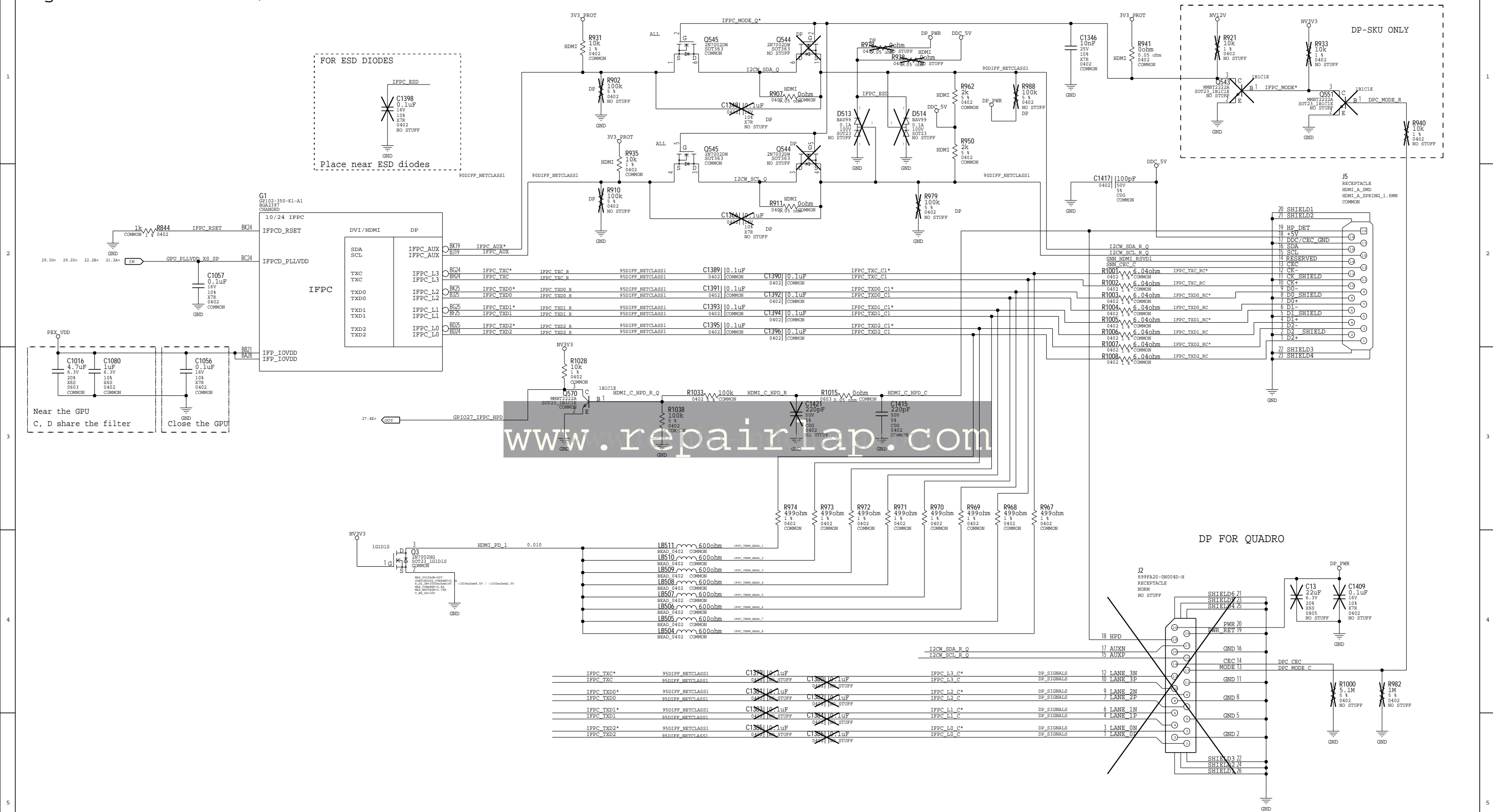


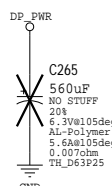
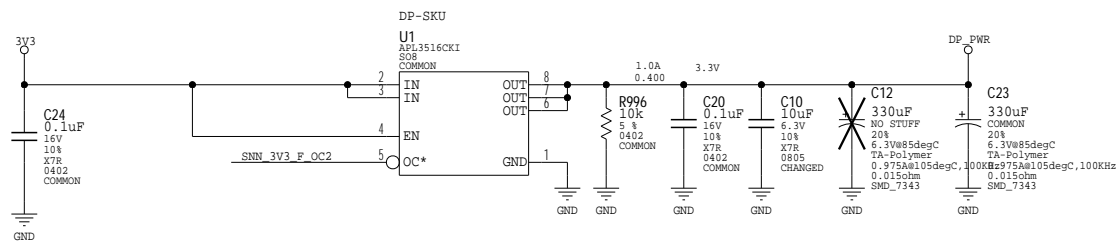
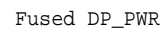
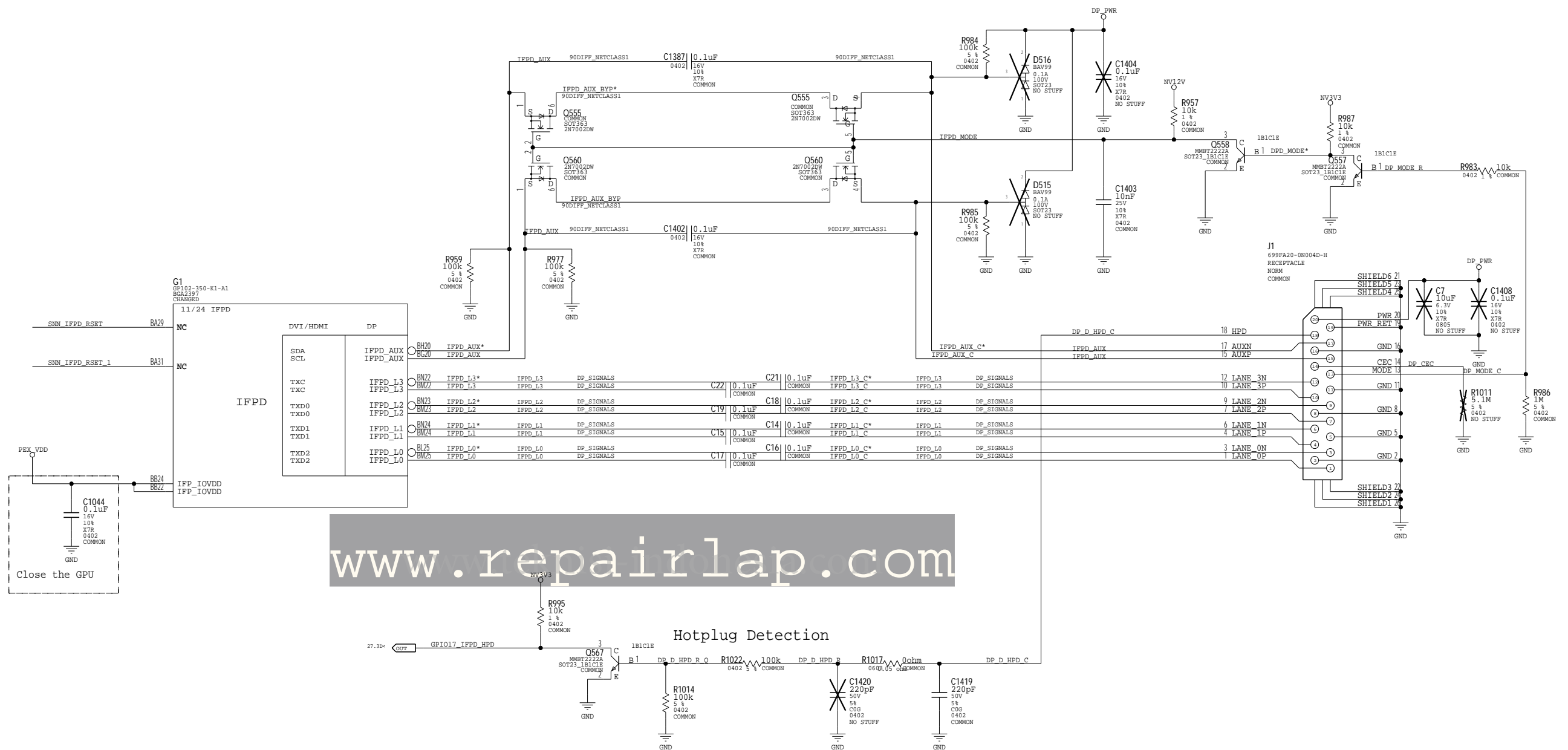
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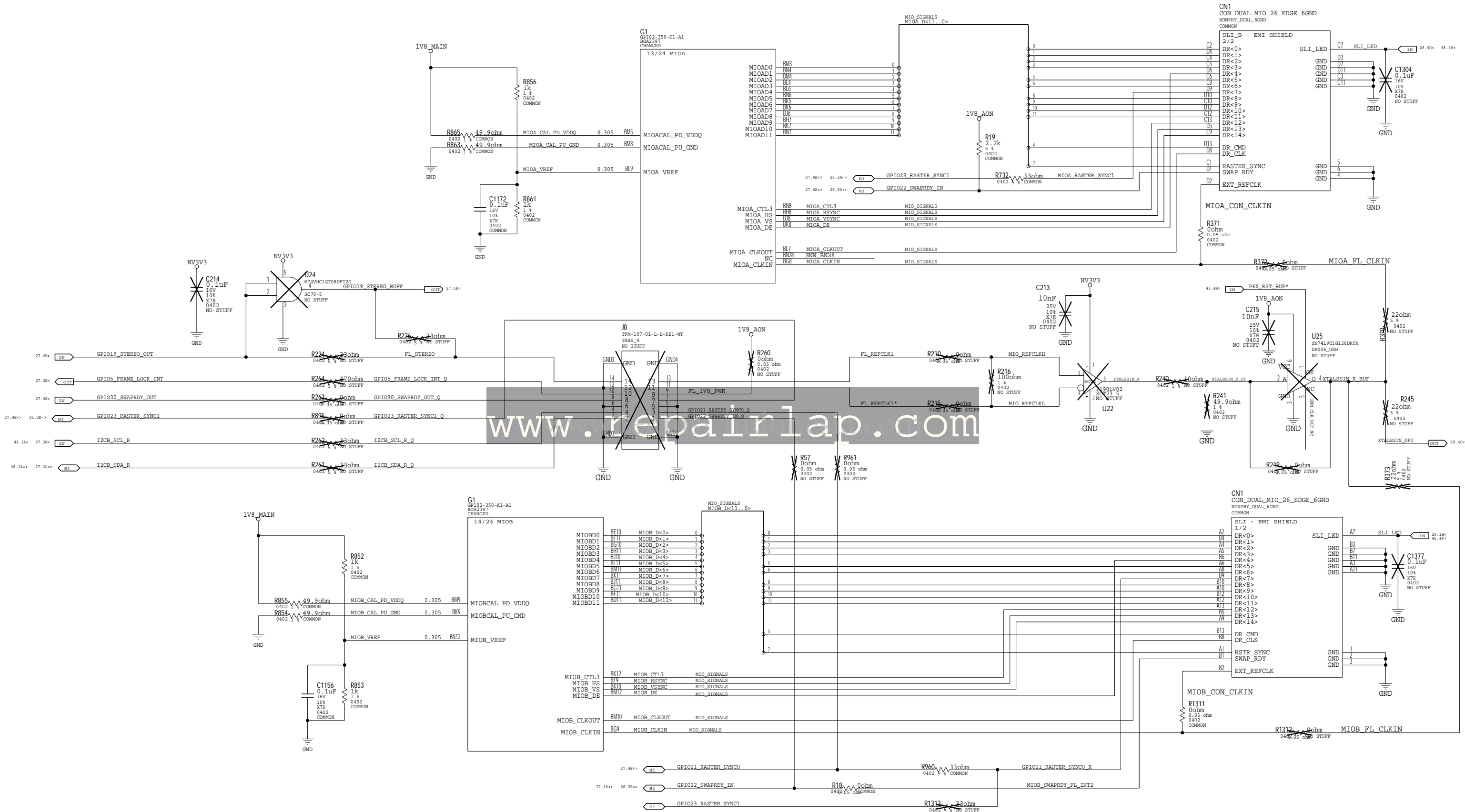




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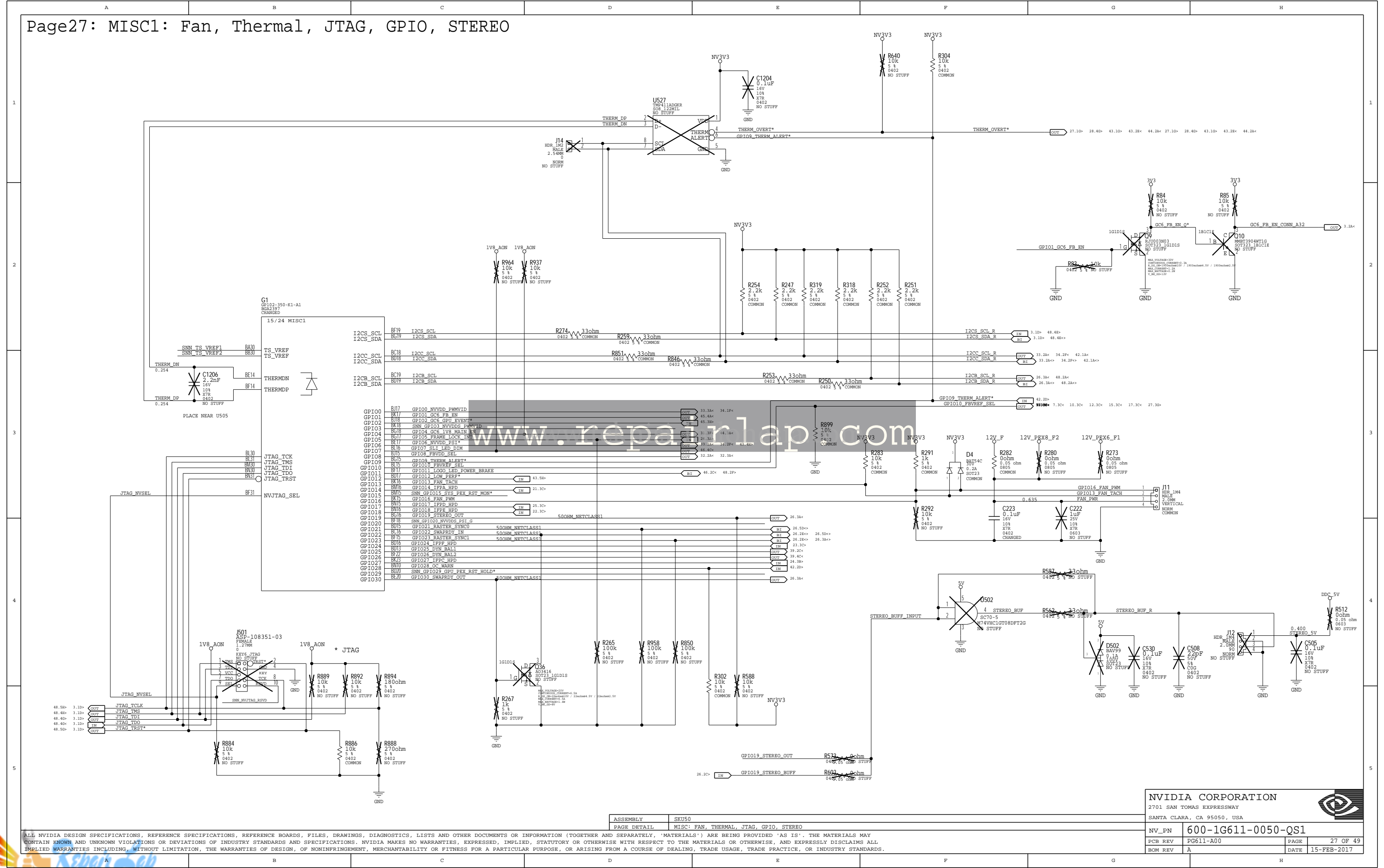
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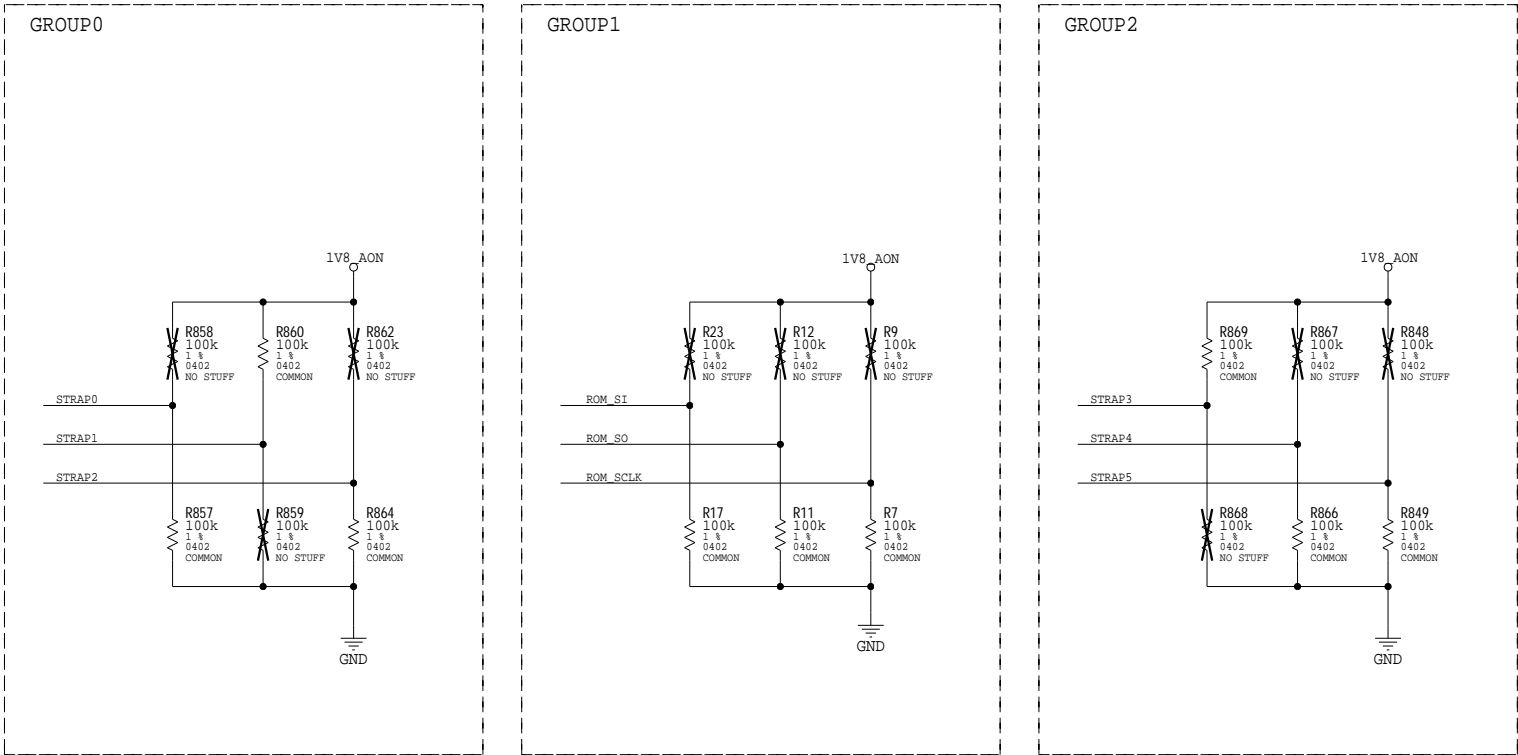
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L	L	H	00001	
L	H	L	00010	MICRON 10Gbps
L	H	H	00011	
H	L	L	00100	
ROM_SO	ROM_SI	ROM_SCLK	SOR_EXPOSED[3:0]	1:ENABLE 0:DISABLE
L	L	L	1111 DEFAULT	SOR0/1/2/3 ENABLE
L	L	H	1110	
L	H	L	1101	
L	H	H	1100	
H	L	L	1011	
H	L	H	1010	
H	H	L	1001	
H	H	H	1000	
L	L	M	0111	
L	M	L	0110	
L	M	H	0101	
L	H	M	0100	
H	L	M	0011	
H	M	L	0010	
H	M	H	0001	
H	H	M	0000	



STRAP5	STRAP4	STRAP3	SMB_ALT_ADDR	DEVID_SEL	PCIE_CFG	VGA_DEVICE
M	H	H	1	1	1	1
M	H	L	1	1	1	0
M	L	H	1	1	0	1
M	L	L	1	1	0	0
L	H	M	1	0	1	1
L	M	H	1	0	1	0
L	M	L	1	0	0	1
L	L	M	1	0	0	0
H	H	H	0	1	1	1
H	H	L	0	1	1	0
H	L	H	0	1	0	1
H	L	L	0	1	0	0
L	H	H	0	0	1	1
L	H	L	0	0	1	0
L	L	H	0	0	0	1 DEFAULT
L	L	L	0	0	0	0

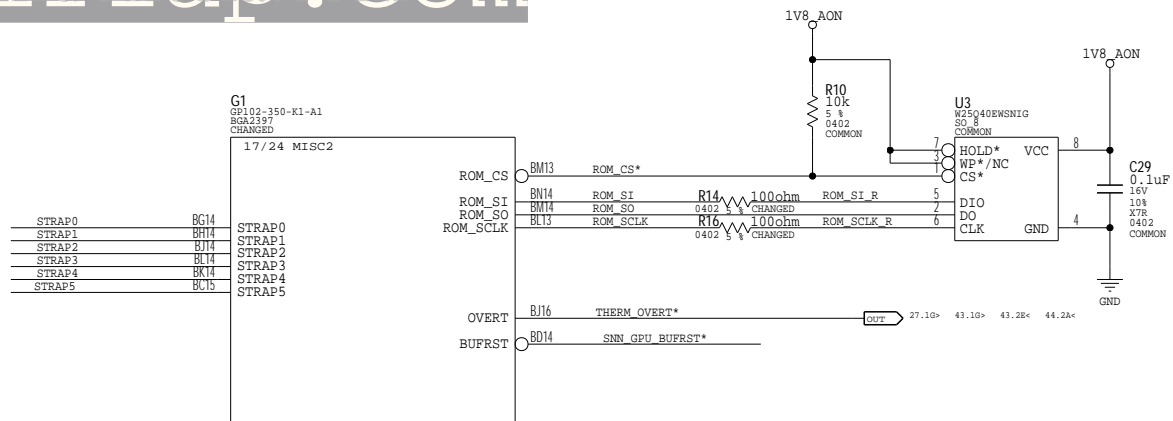
```
H=High   :Tied to 1.8V
M=Middle:Tied to 0.9V
L=Low    :Tied to  0V
```

1:SMB_ALT_ADDR ENABLE
0:SMB_ALT_ADDR DISABLE

```
1:PCIE_CFG LOW POWER
0:PCIE_CFG HIGH POWER
```


```
1:DEVID_SEL REBRAND
0:DEVID_SEL ORIGINAL
```

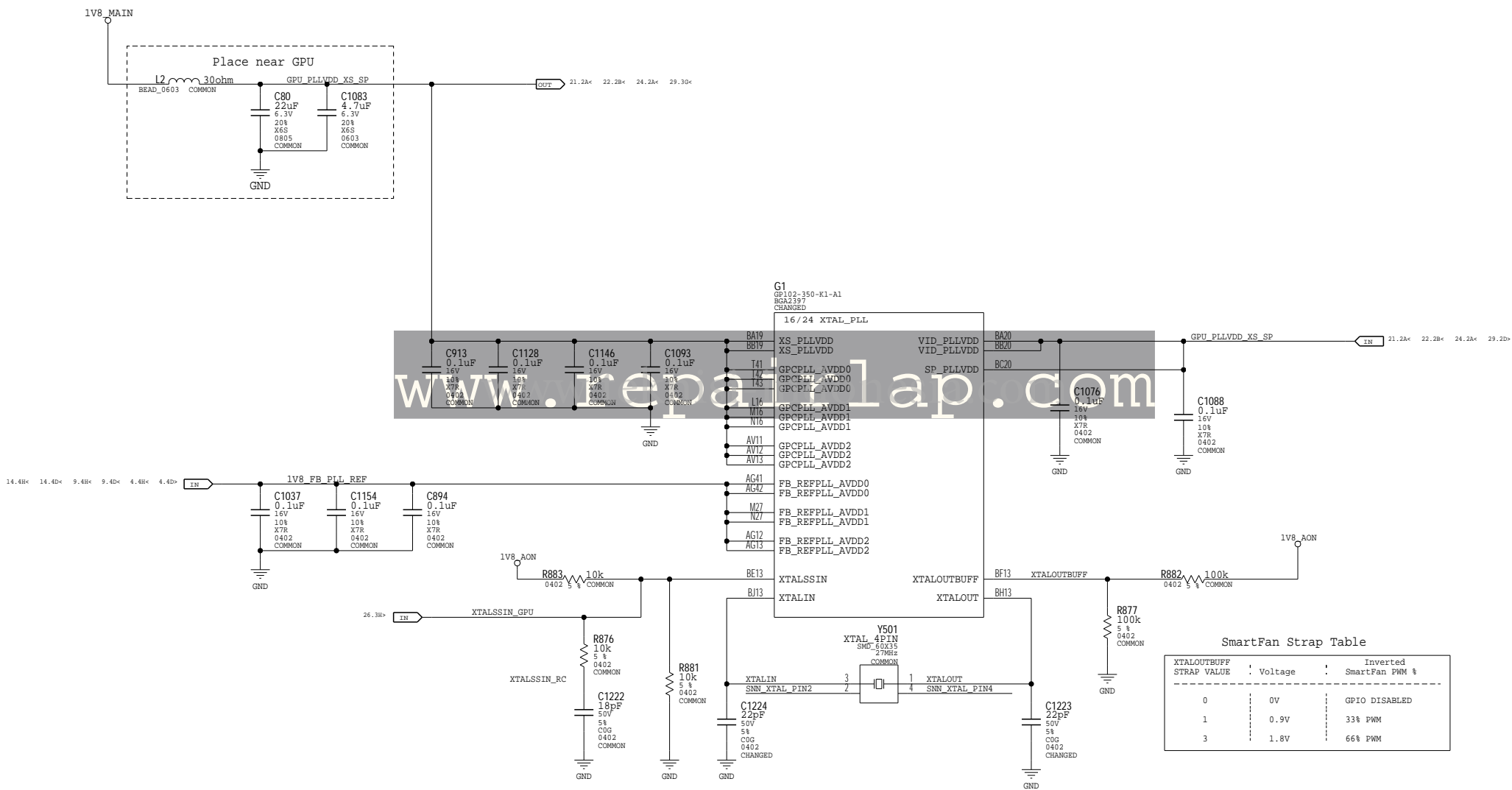
```
1:VGA_DEVICE  ENABLE
0:VGA_DEVICE  DISABLE
```



ASSEMBLY	SKU50
PAGE DETAIL	MISC: ROM, STRAPS

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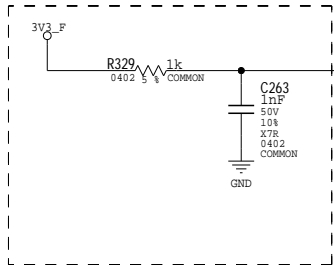
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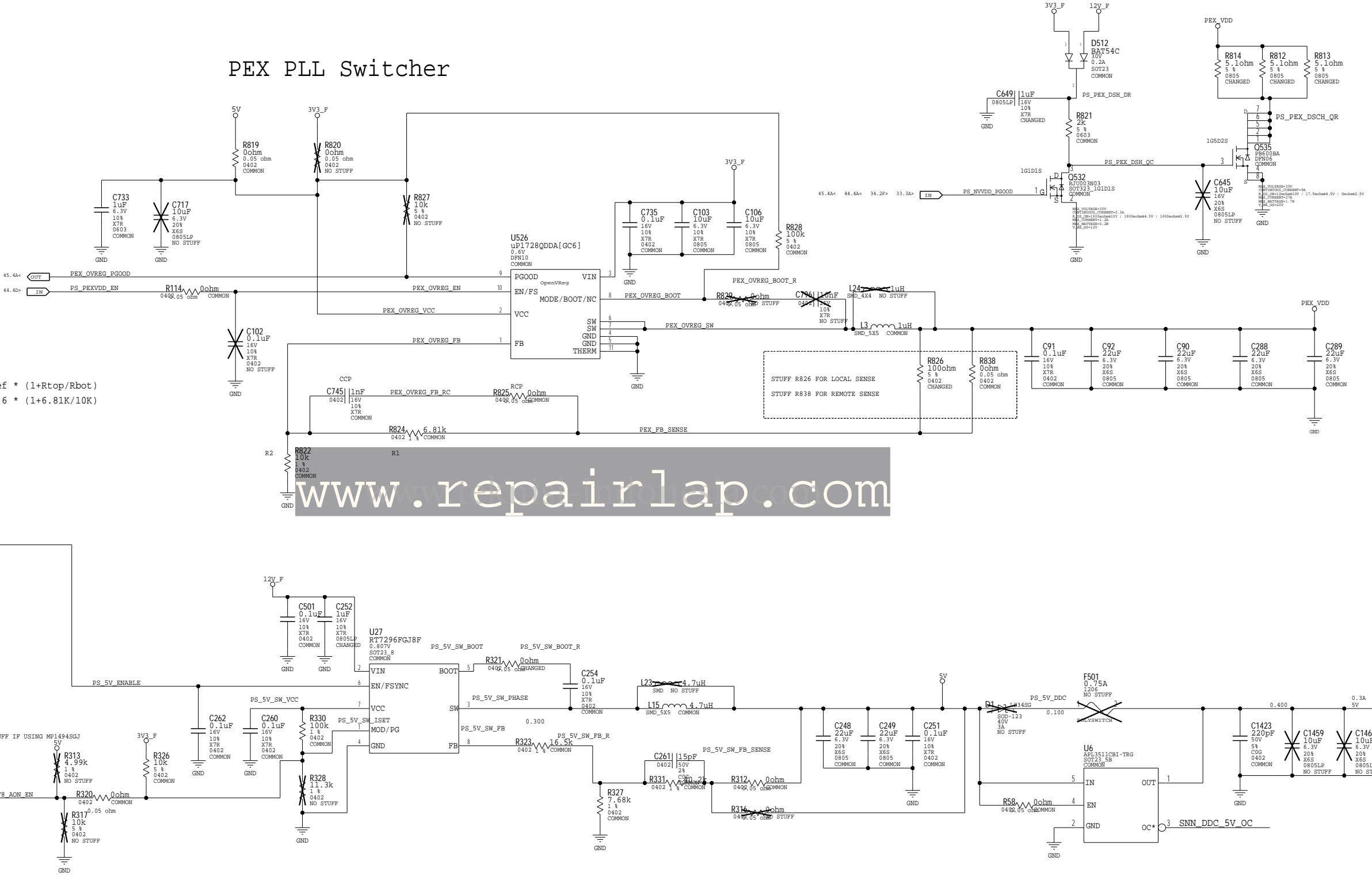
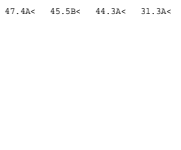
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PEX PLL Switcher

$V_{out} = V_{ref} * (1 + R_{top}/R_{bot})$
 $1.008 = 0.6 * (1 + 6.81K/10K)$



STUFF IF USING MP1494SGJ



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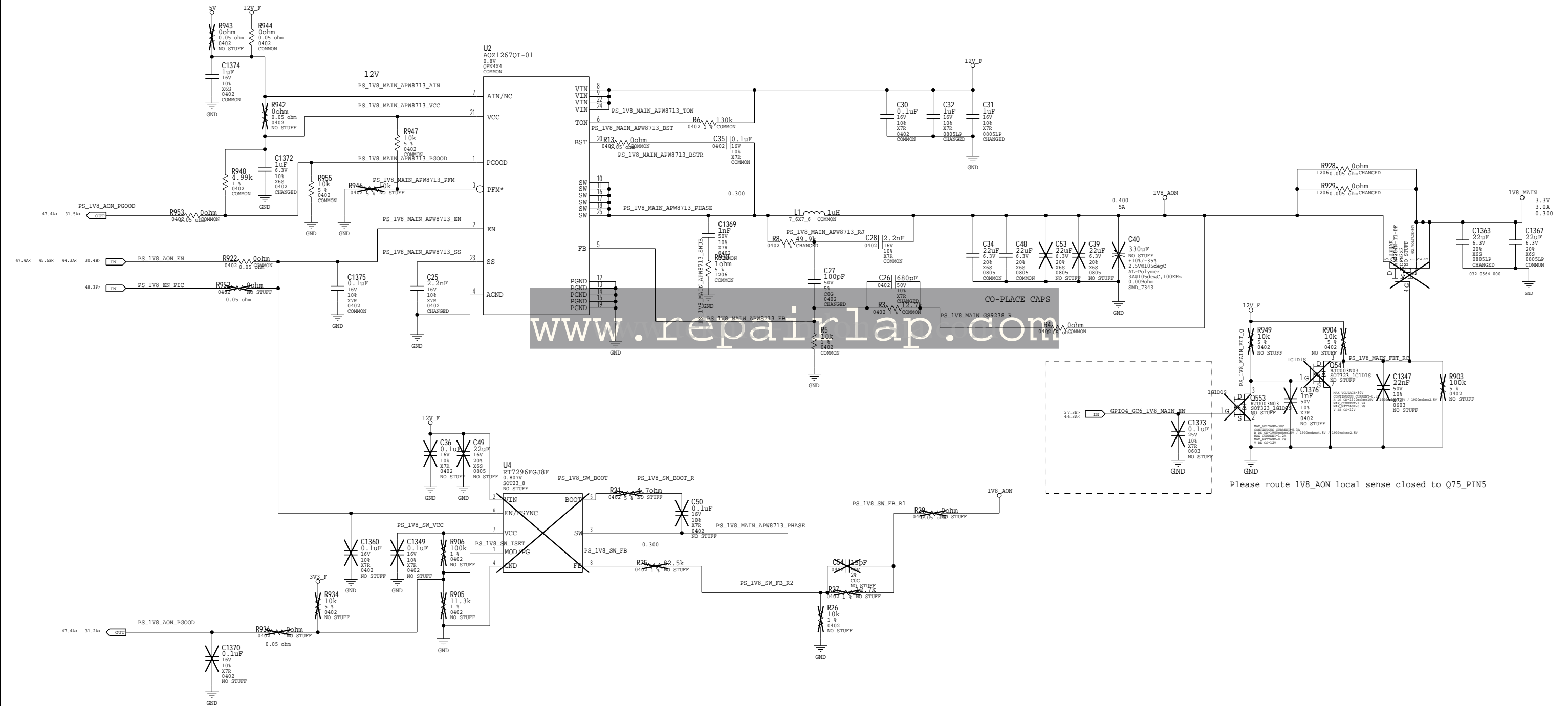
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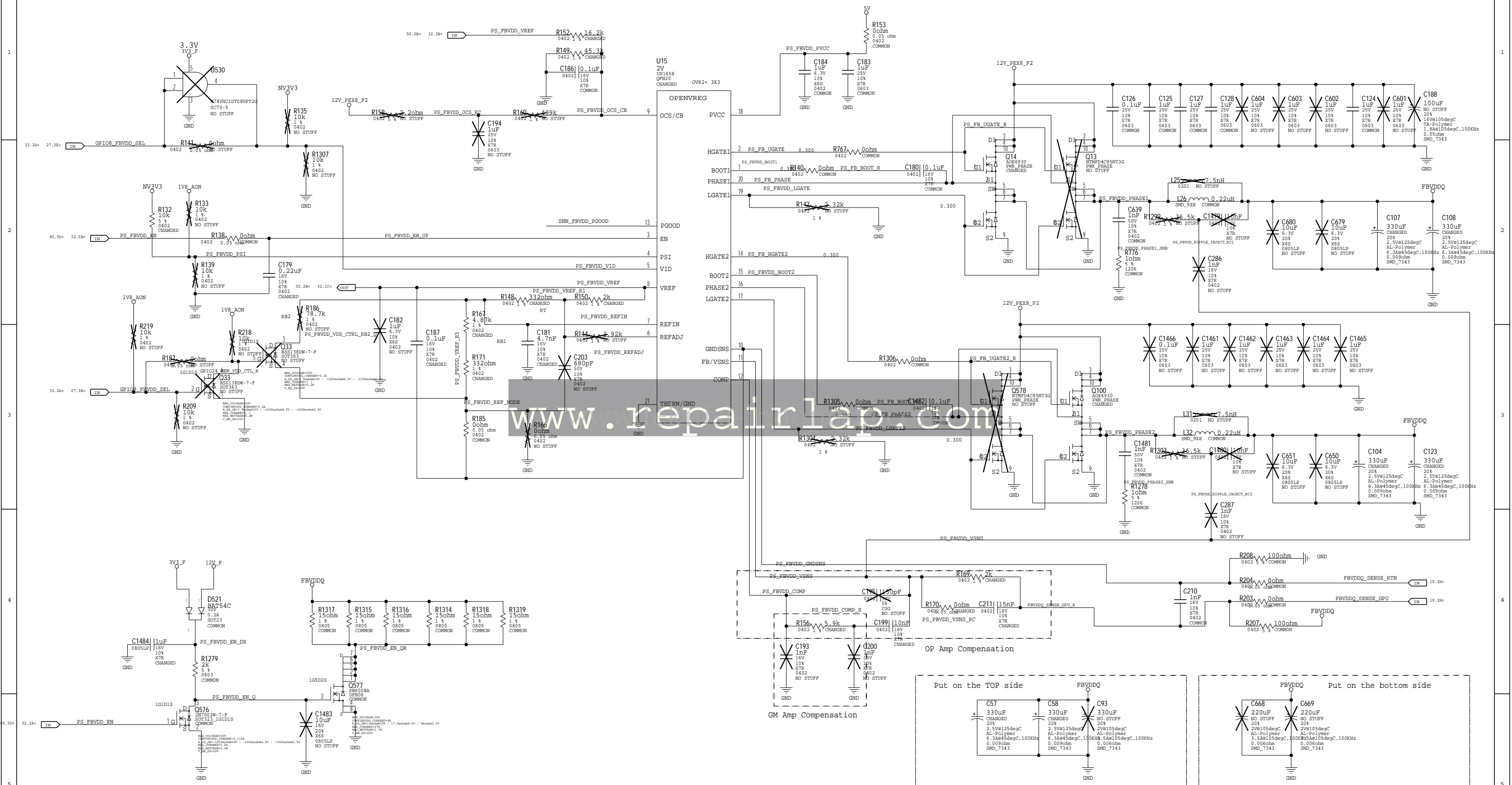


$$1.8 = 0.8 * (1 + 18.7K/15K)$$
$$V_{out} = V_{ref} * (1 + R_{top}/R_{bot})$$

ASSEMBLY	SKU50
PAGE DETAIL	PS: 1v8 Rails

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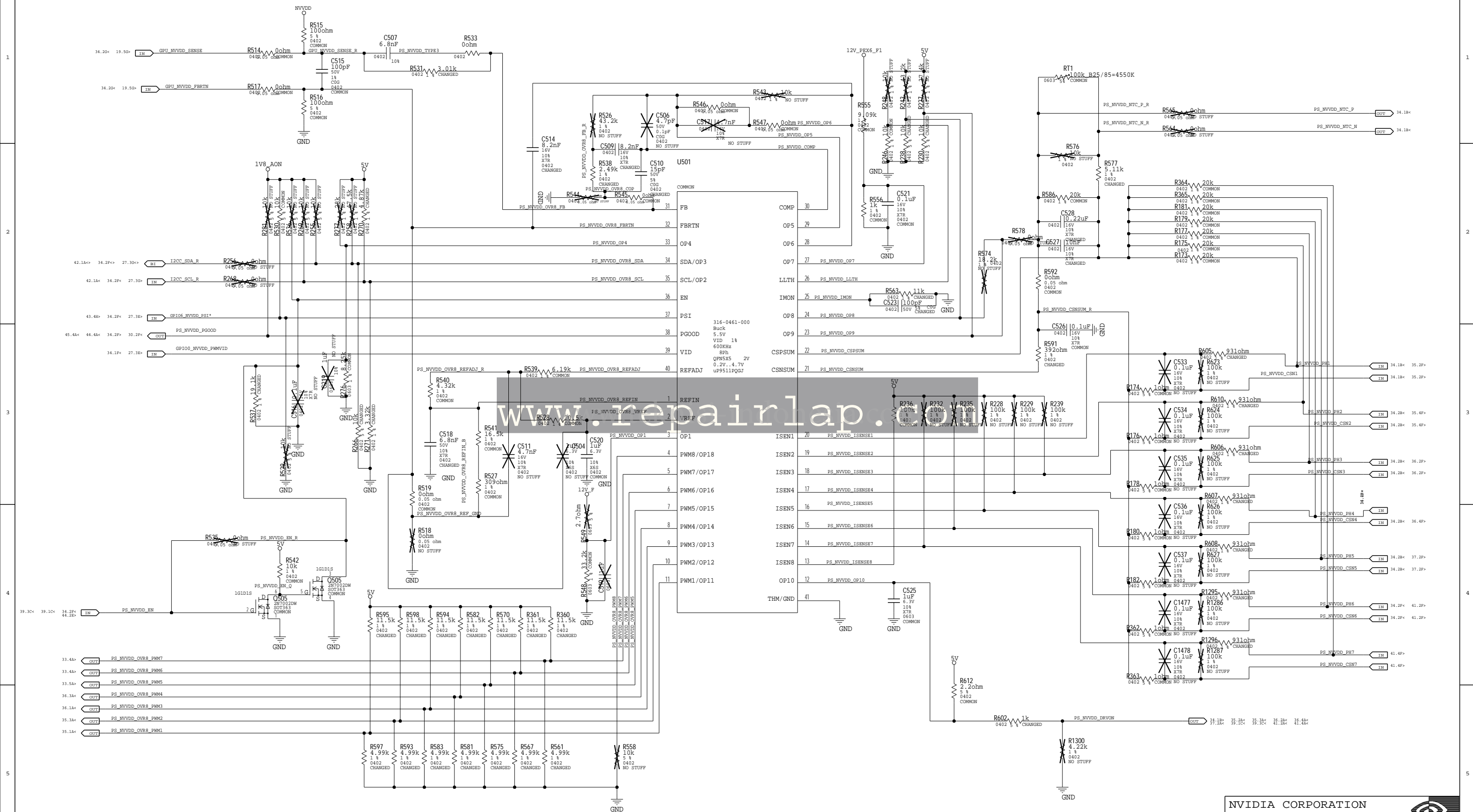
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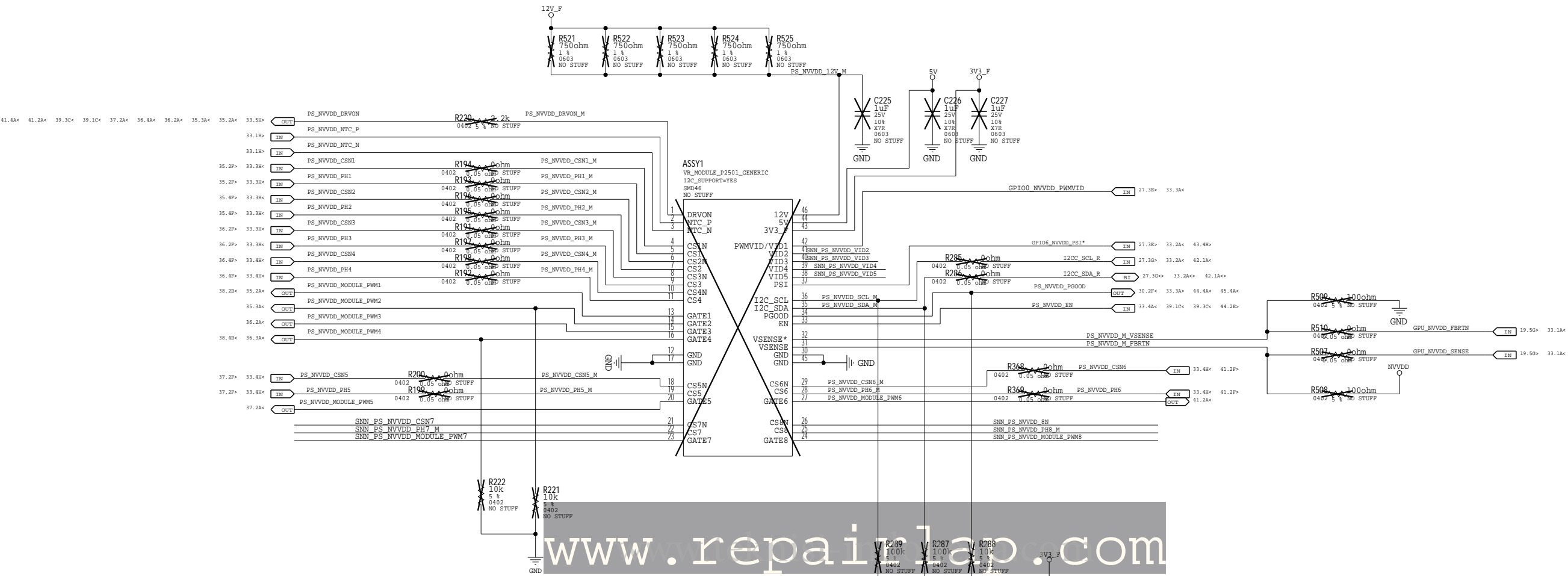
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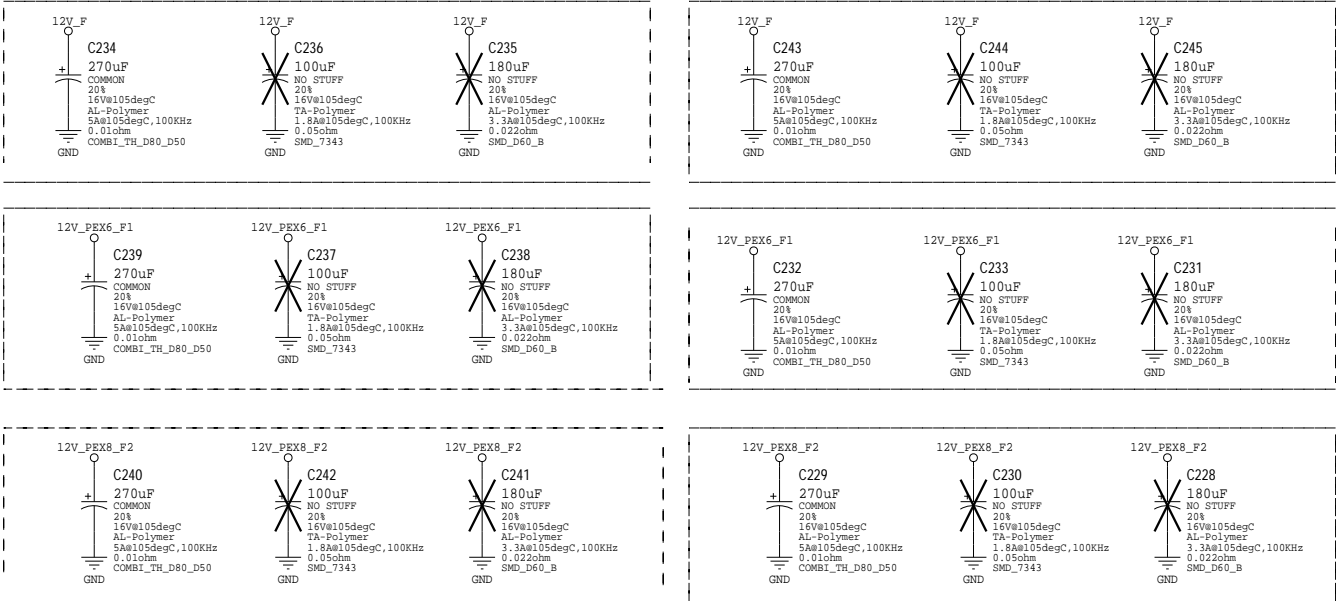
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CO-LAYOUT: CHOOSE ONE ONLY



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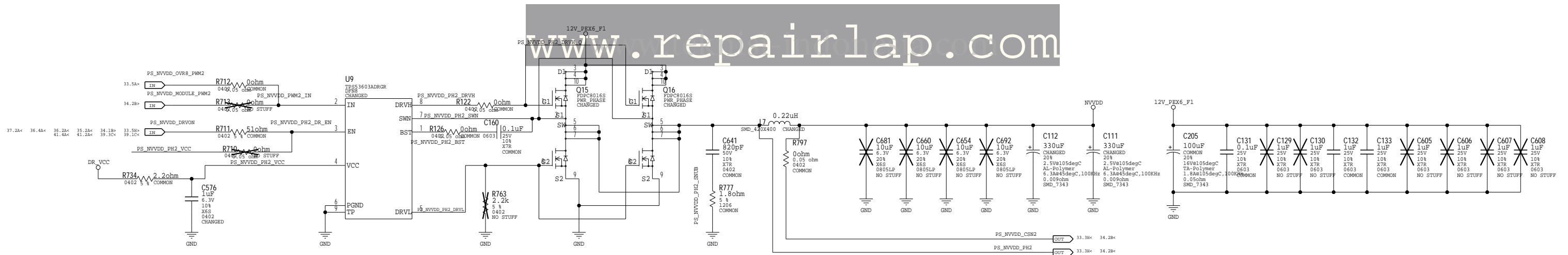
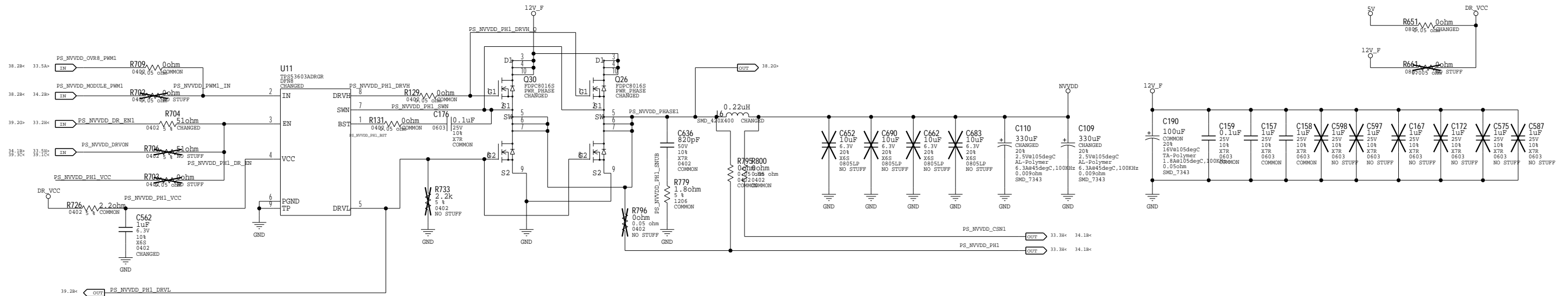
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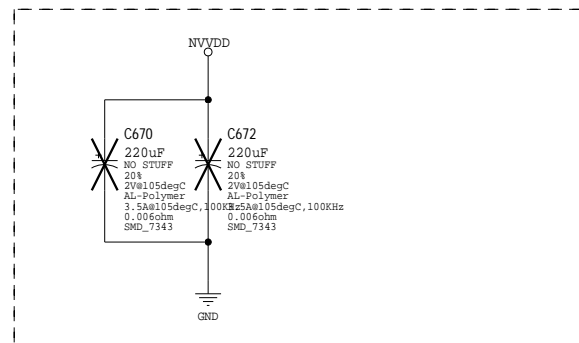
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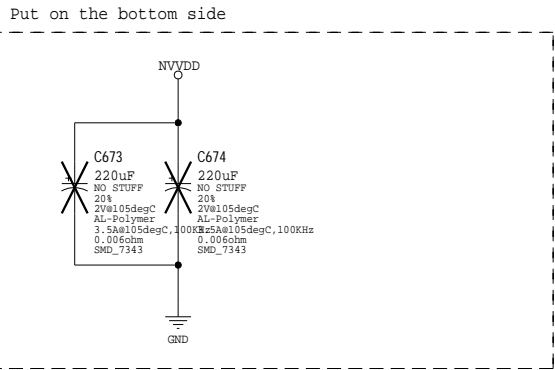
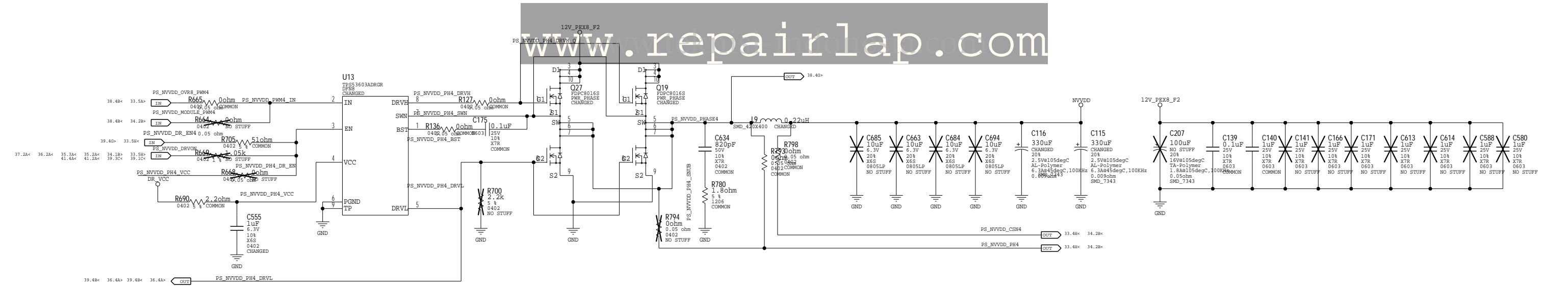
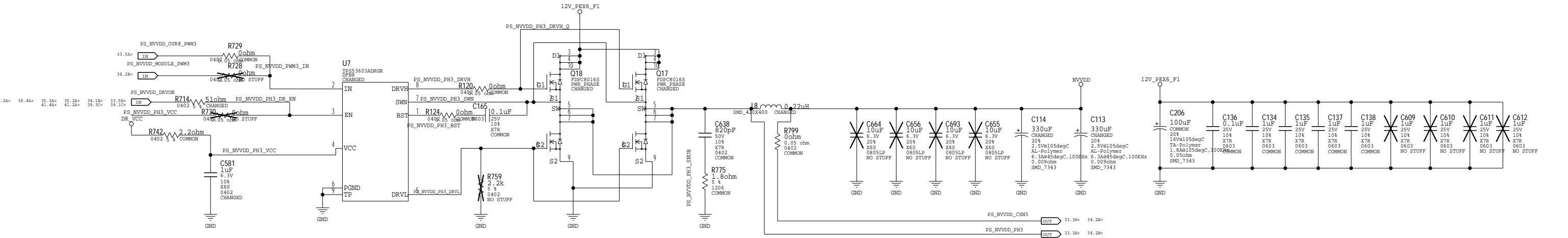
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ASSEMBLY	SKU50
PAGE DETAIL	PS: NVVDD Phase 1, 2

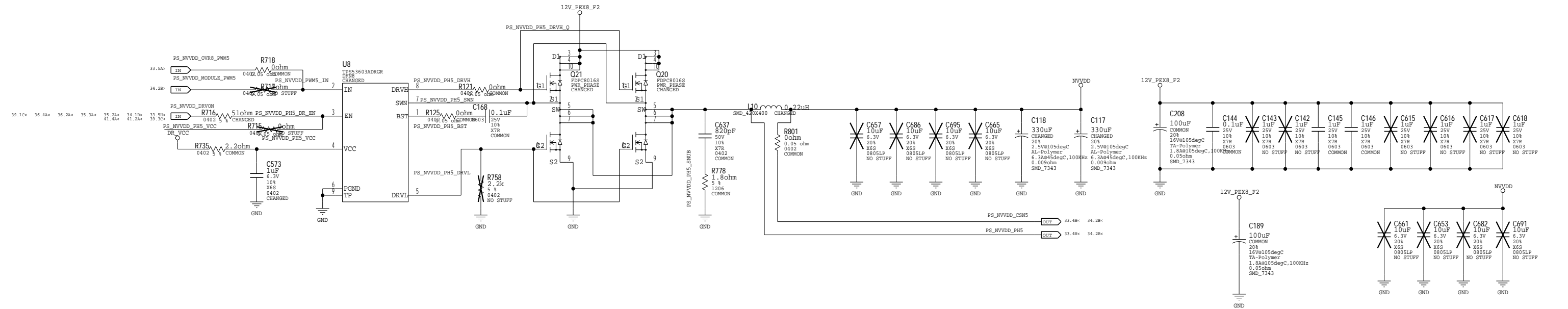
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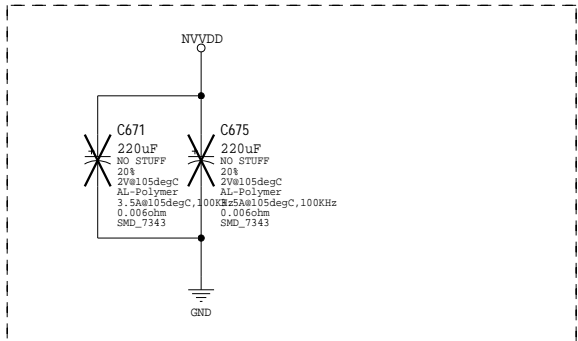
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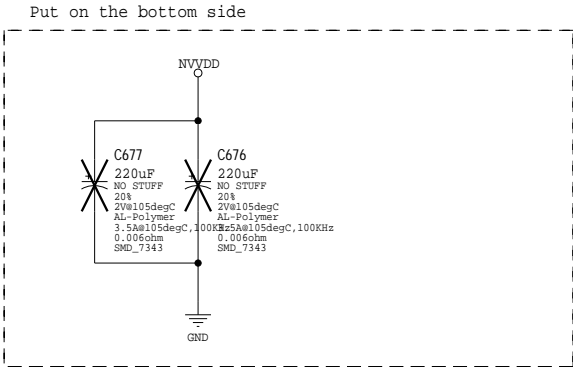
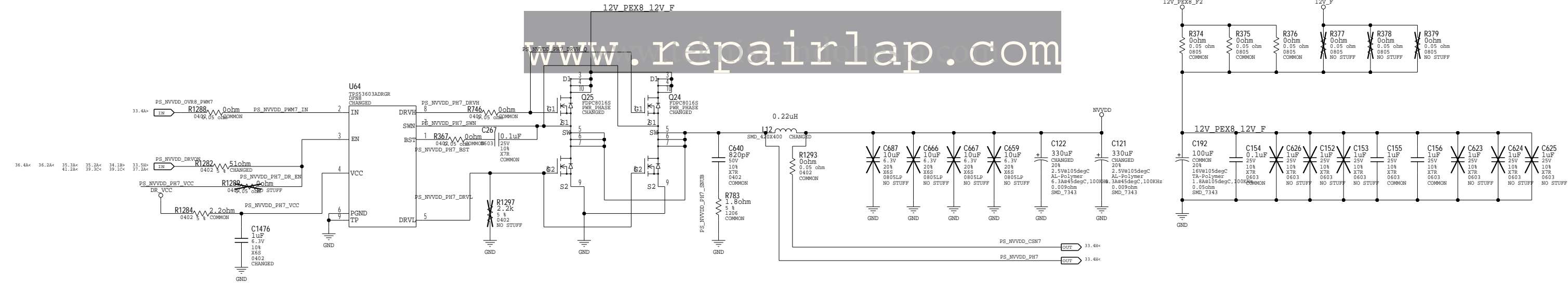
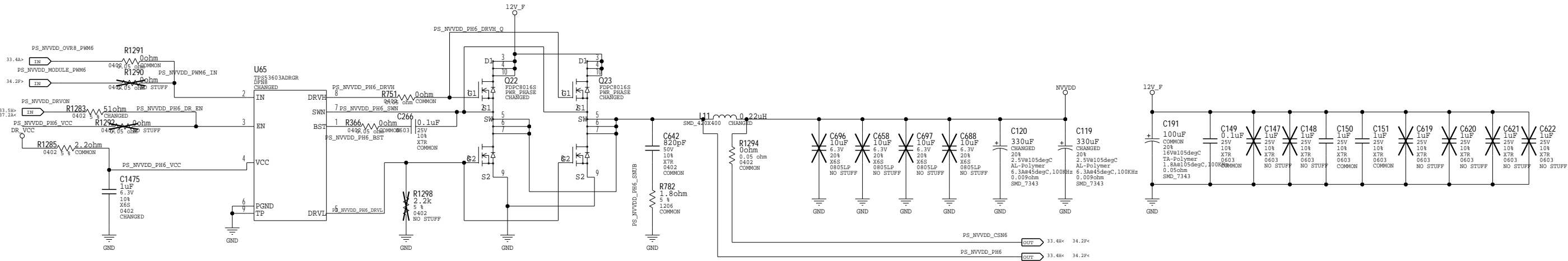
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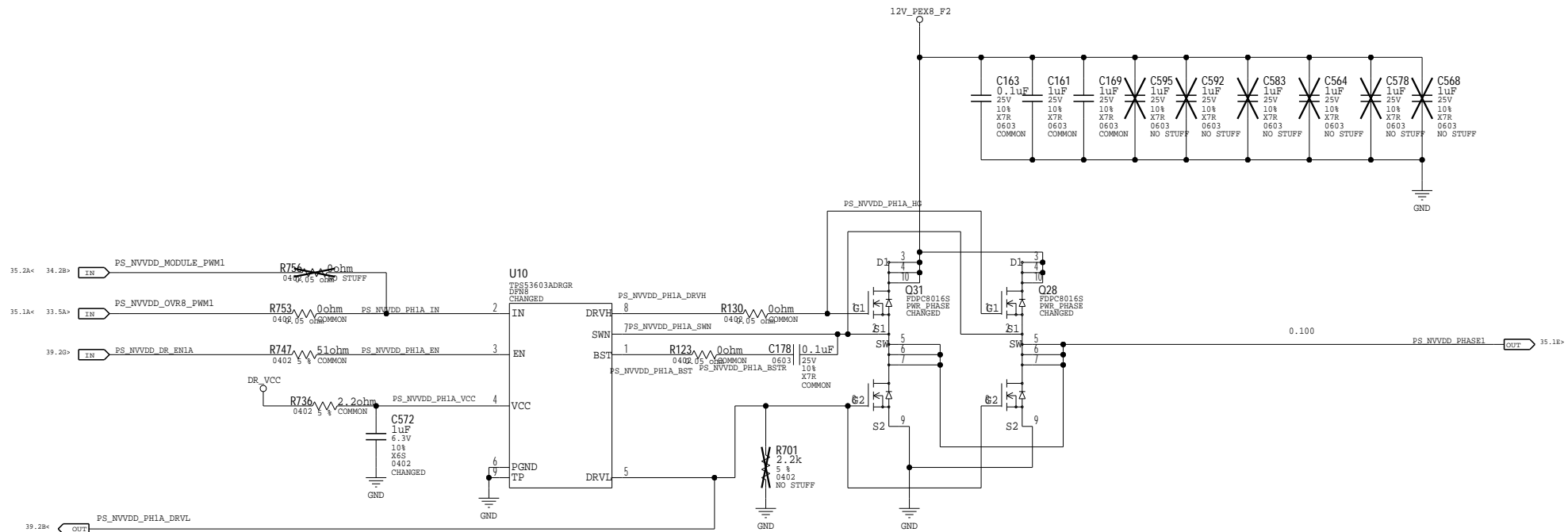
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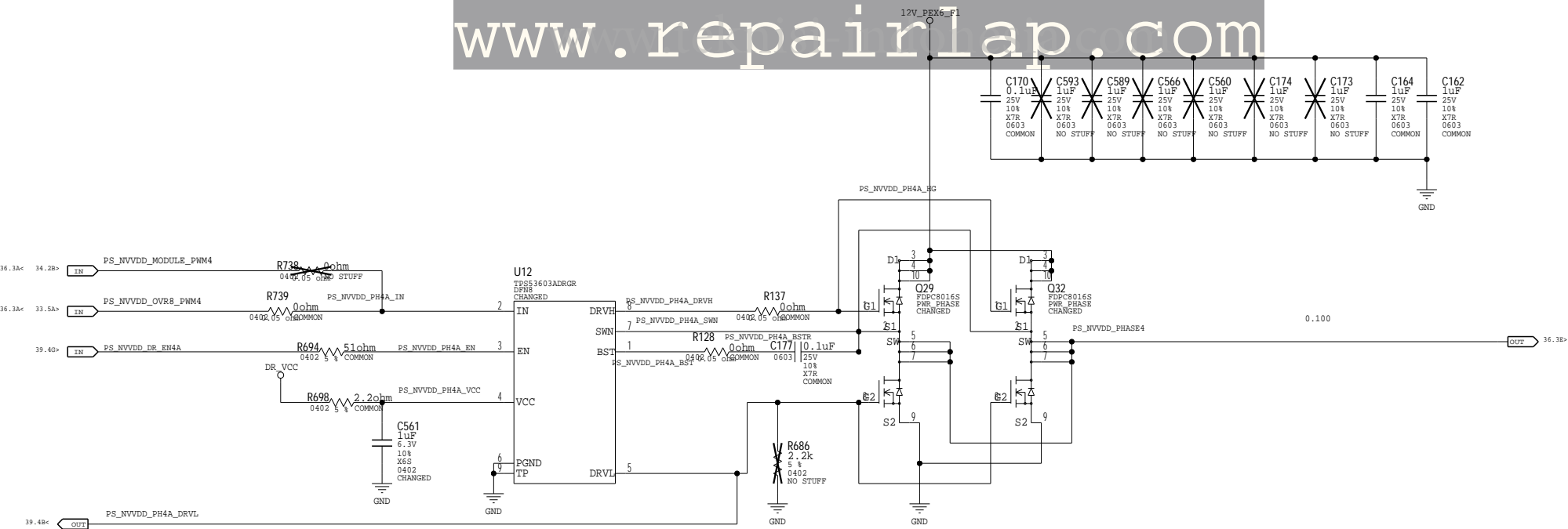
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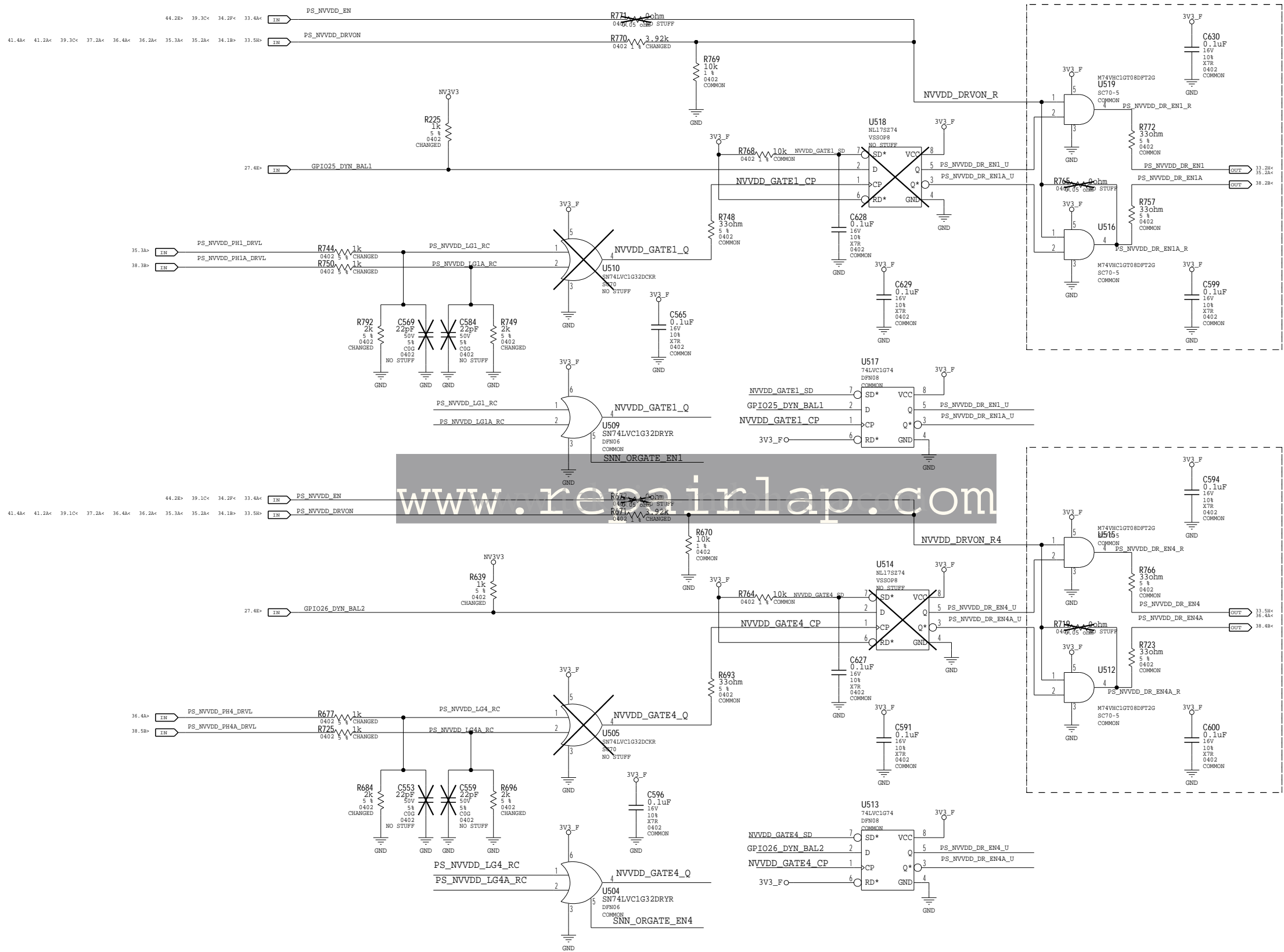
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Page40: PS: Dynamic Power Balance Logic



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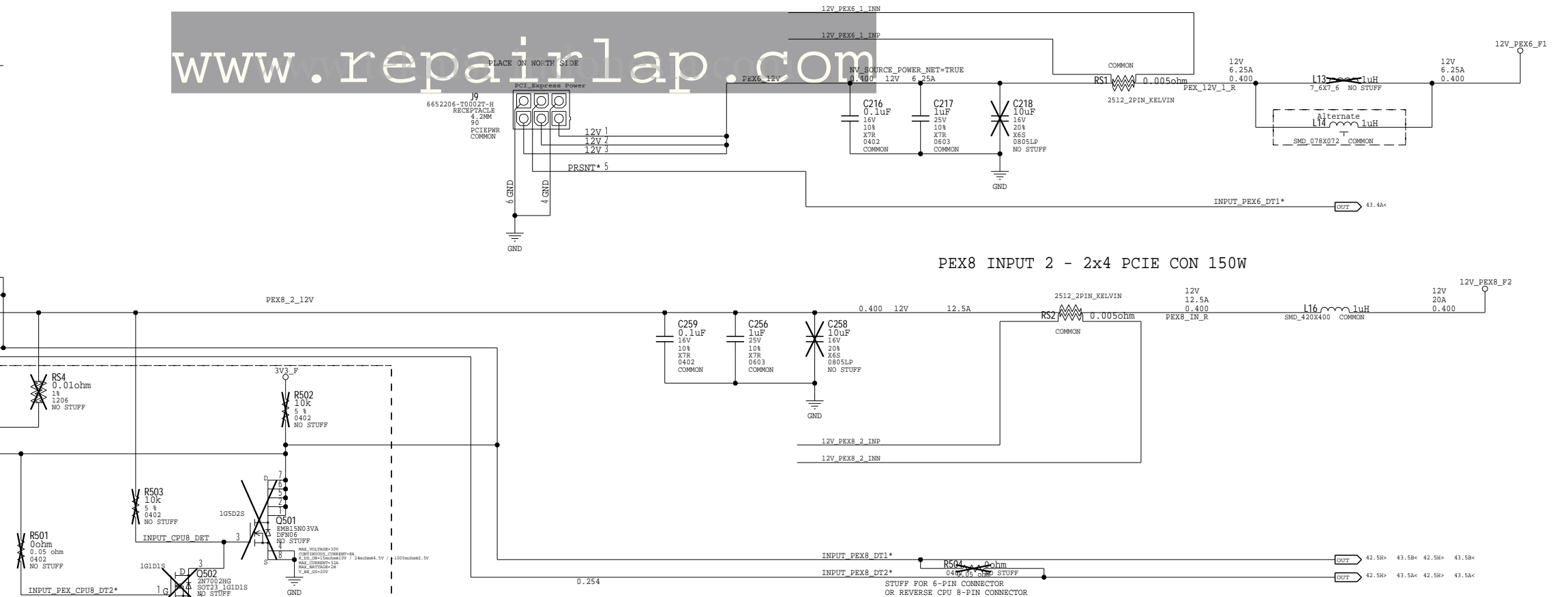
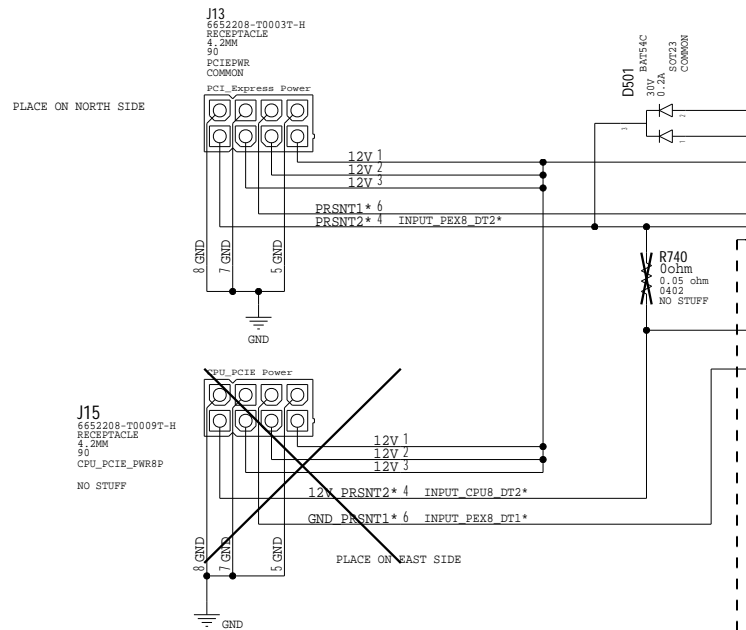
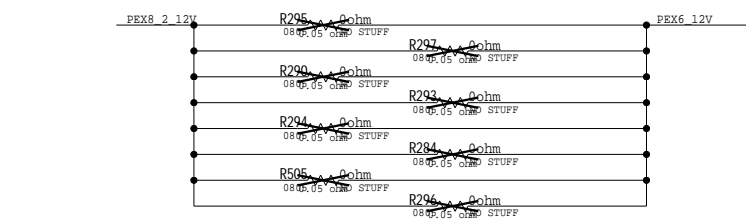
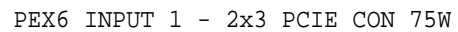
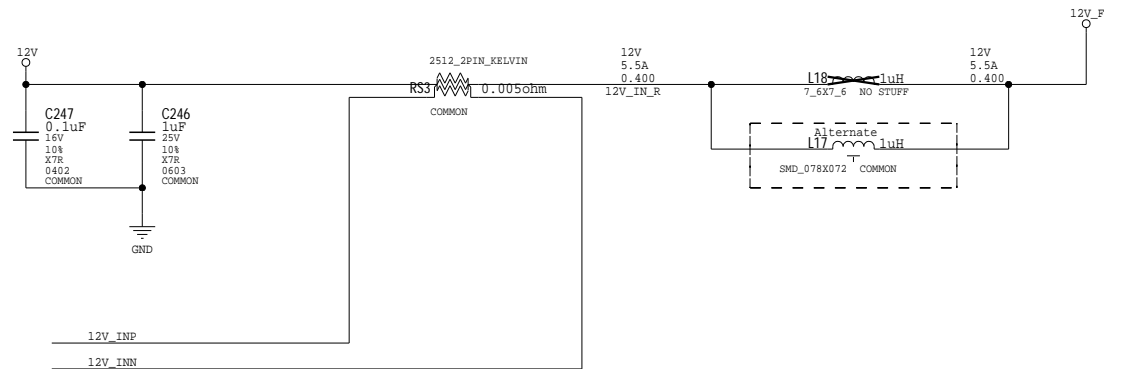
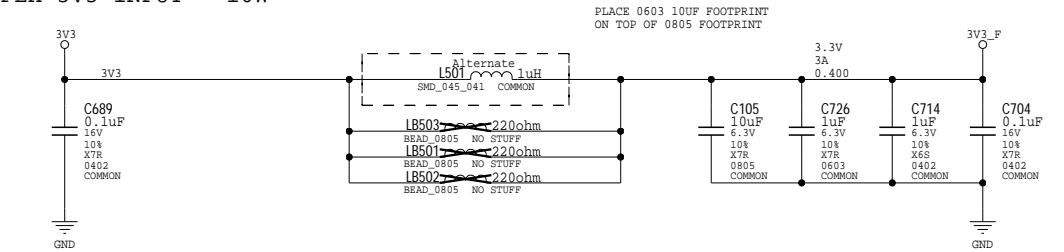
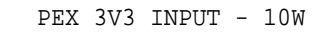
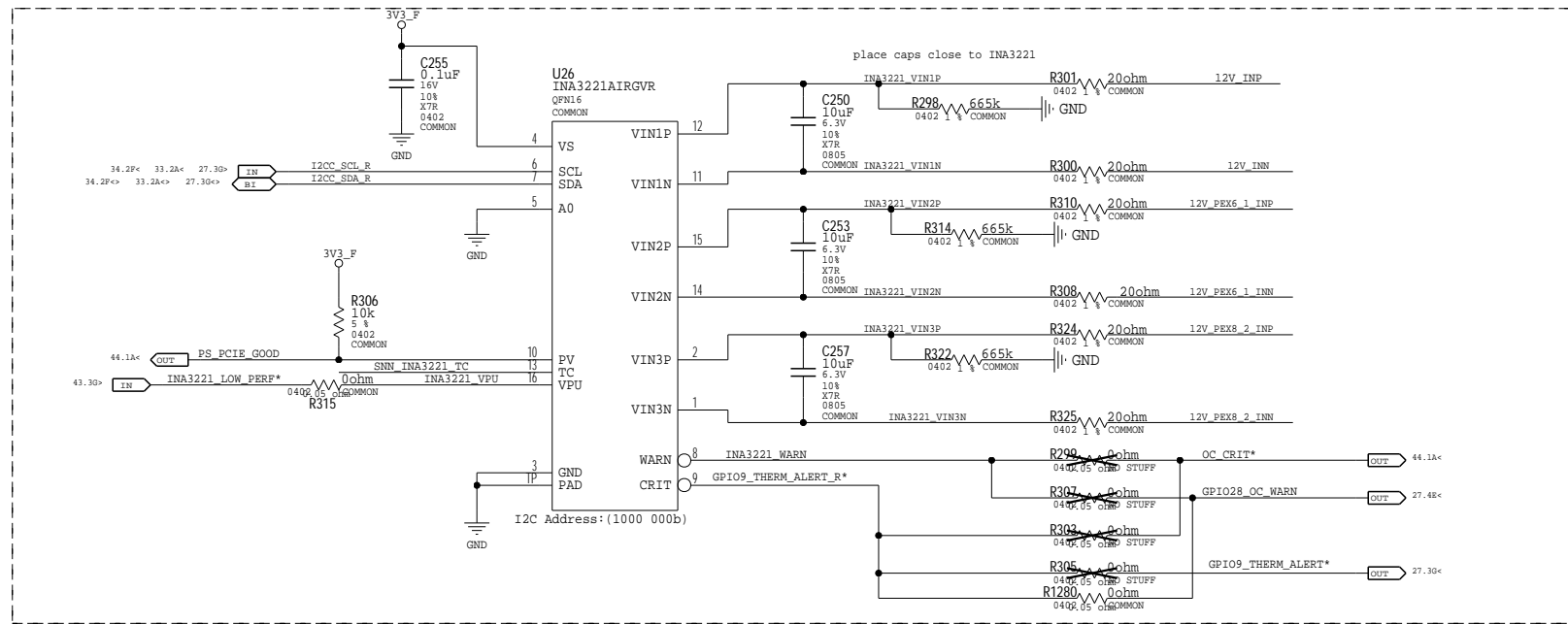
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Page41: PS: Inputs, Filtering, and Monitoring

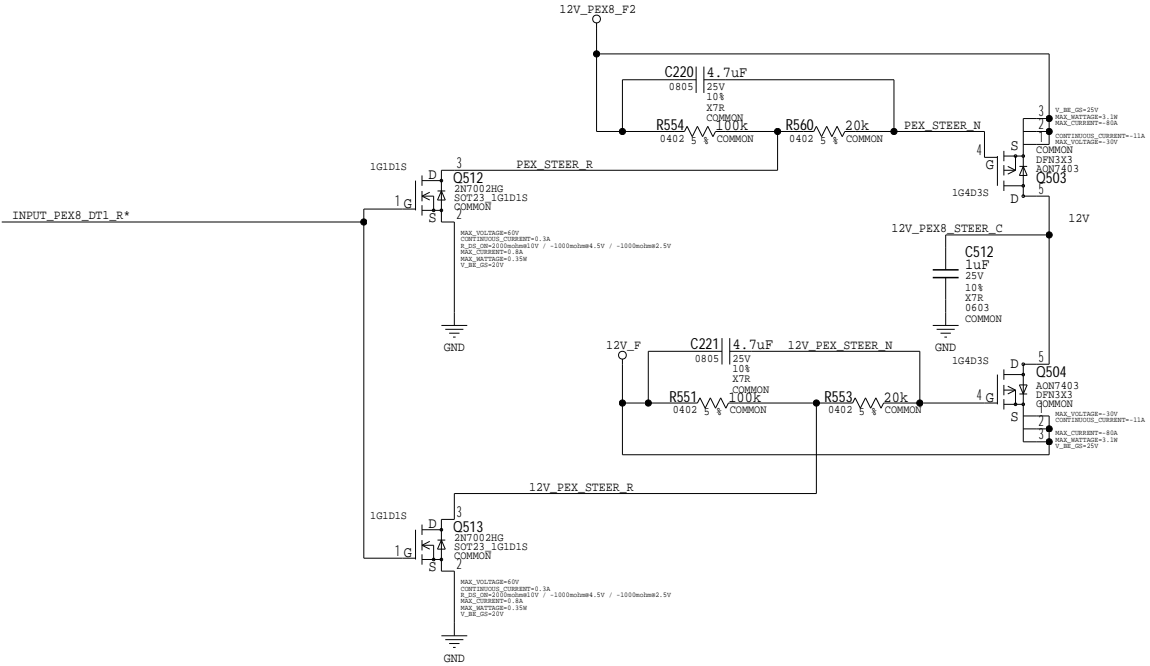


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Page42: PS: 12V Current Steering & Hot Unplug Detect

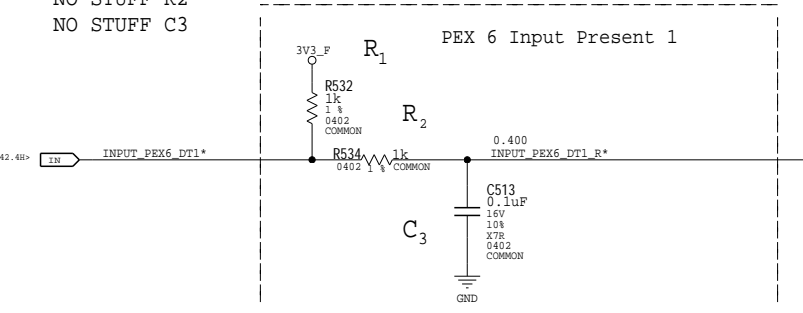
QUADRO/TESLA:
12V CURRENT STEERING (UNDER POWER BOOT):
GUIDES CURRENT FROM PEX EDGE TO PEX 8 PIN INPUT AREA

For OpenVreg Type4 + Phase Doubler, 2 phase PSI mode



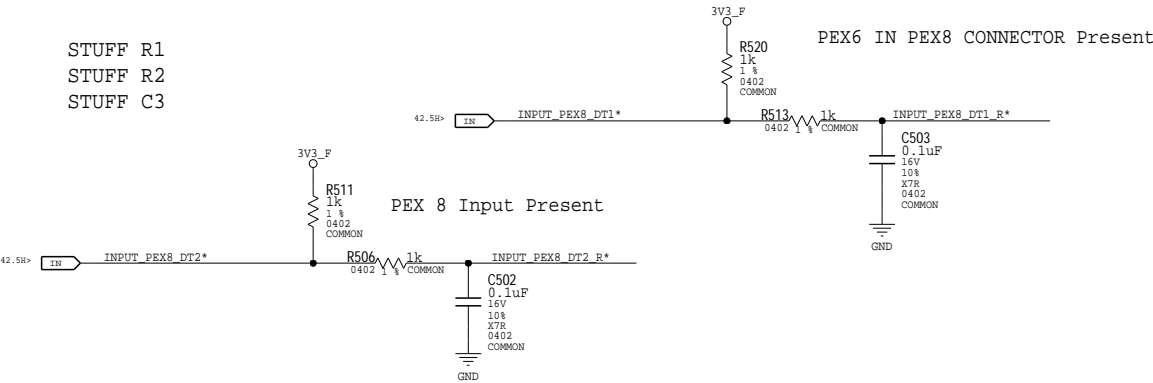
PEX 6 INPUT CONNECTOR IS NOT LOADED
PEX 6 INPUT DETECT MUST BE DISABLED
PEX 8 INPUT DETECT MUST BE USED TO CONTROL STEERING

NO STUFF R1
NO STUFF R2
NO STUFF C3

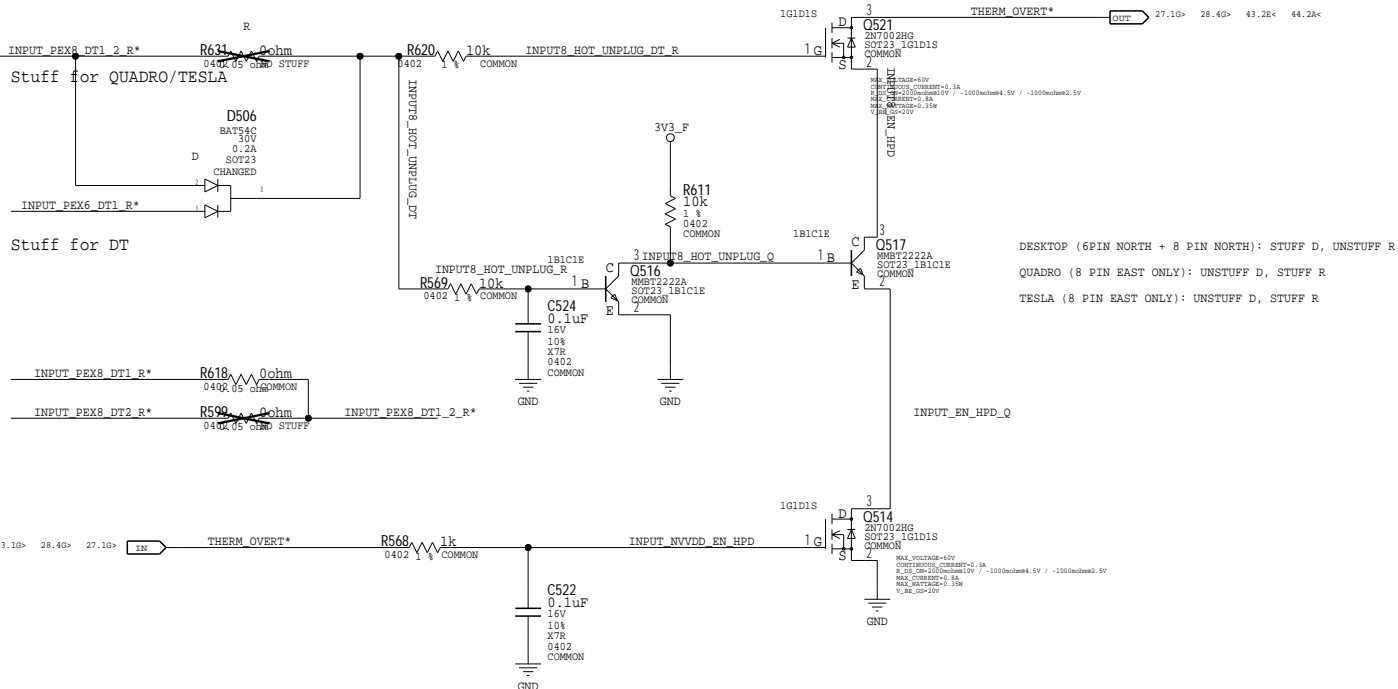
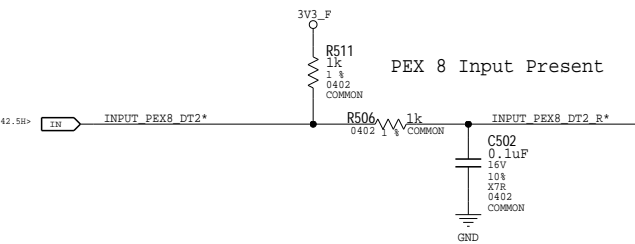


GeFORCE:
PEX 6 INPUT CONNECTOR IS LOADED
PEX 6 INPUT DETECT MUST BE USED TO CONTROL STEERING

STUFF R1
STUFF R2
STUFF C3

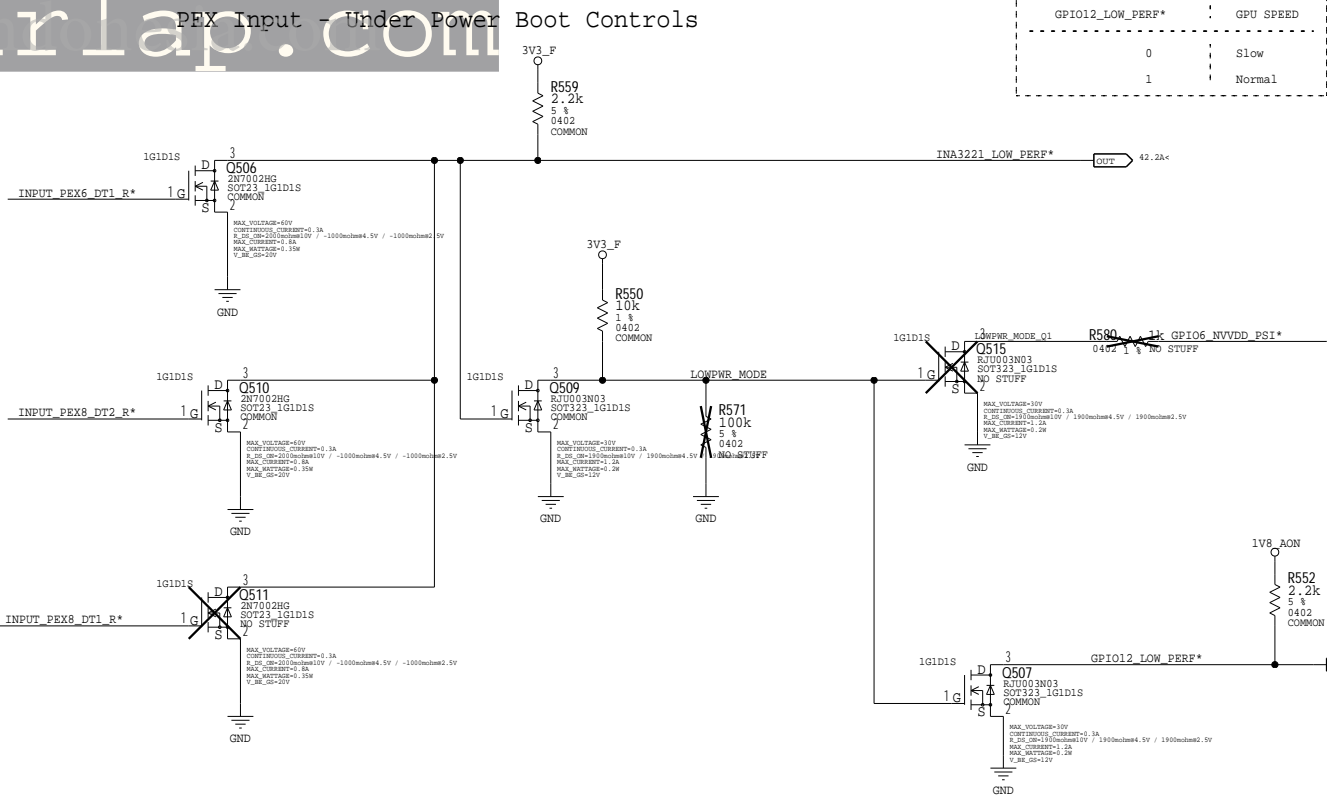


PEX 8 Input Present



DESKTOP (6PIN NORTH + 8 PIN NORTH): STUFF D, UNSTUFF R
QUADRO (8 PIN EAST ONLY): UNSTUFF D, STUFF R
TESLA (8 PIN EAST ONLY): UNSTUFF D, STUFF R

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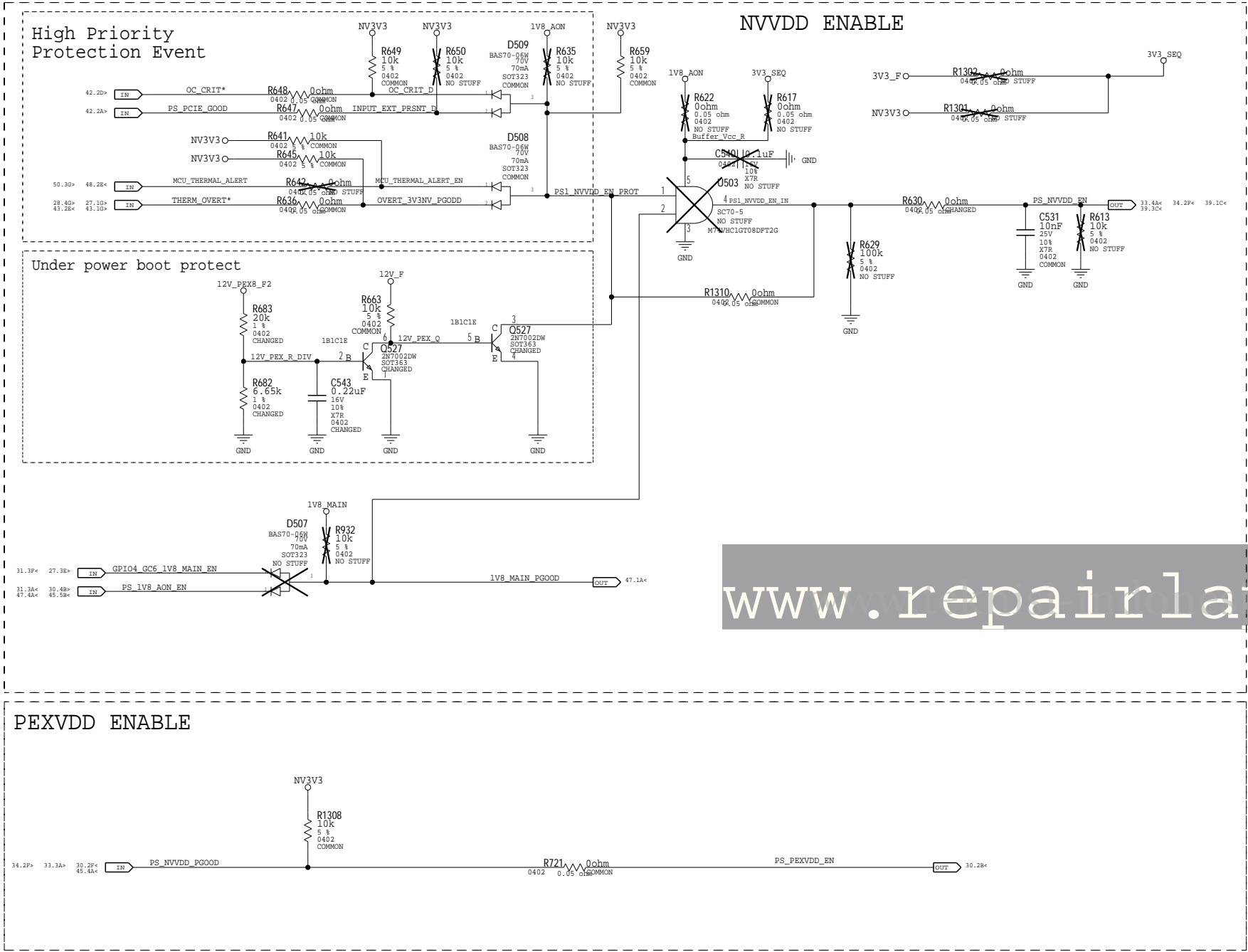
A 2 x 4 auxiliary power connector plug from the power supply unit must not use the 75 W sense coding (Sense1=Open and Sense0=Ground) to avoid end-user confusion.

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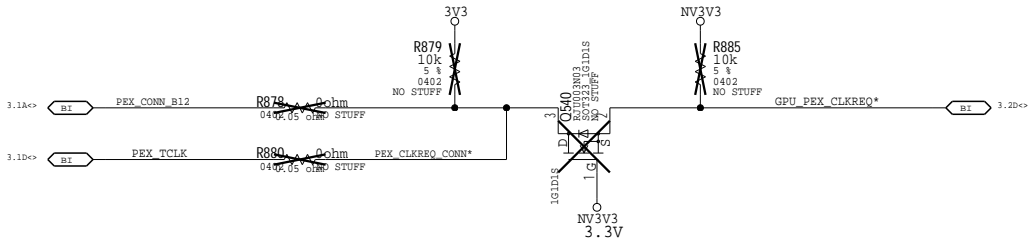
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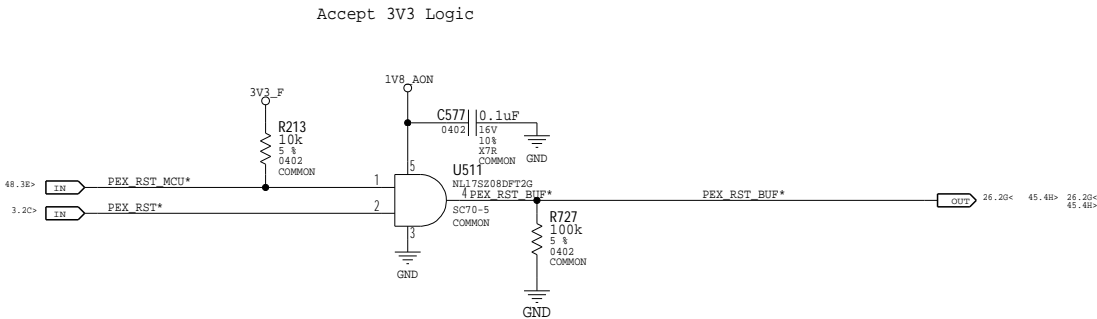
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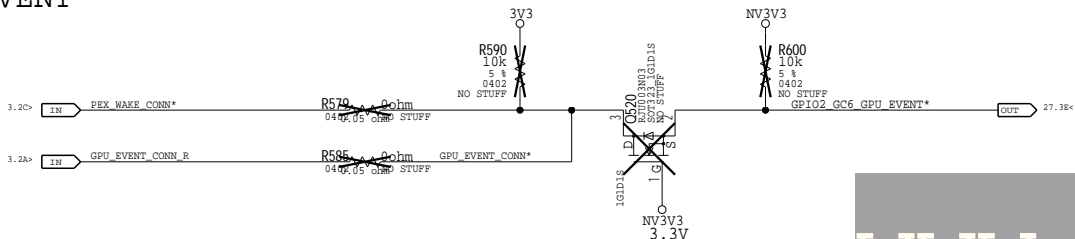
PEX_CLKREQ*



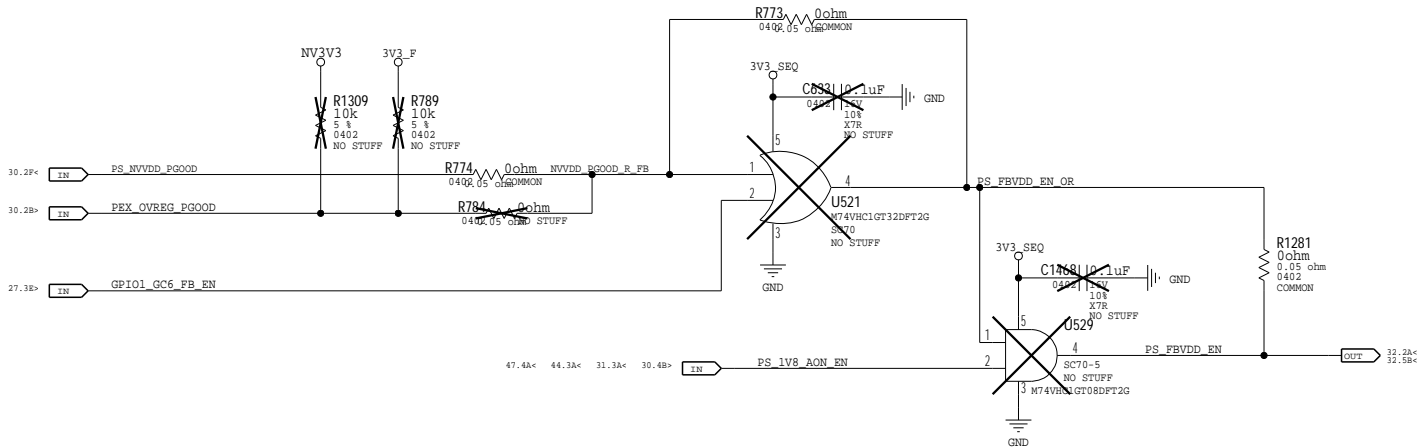
PEX_RST# LOGIC



GPU_EVENT*



FBVDD/Q ENABLE



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NV_PN 600-1G611-0050-QS1

PCB REV PG611-A00

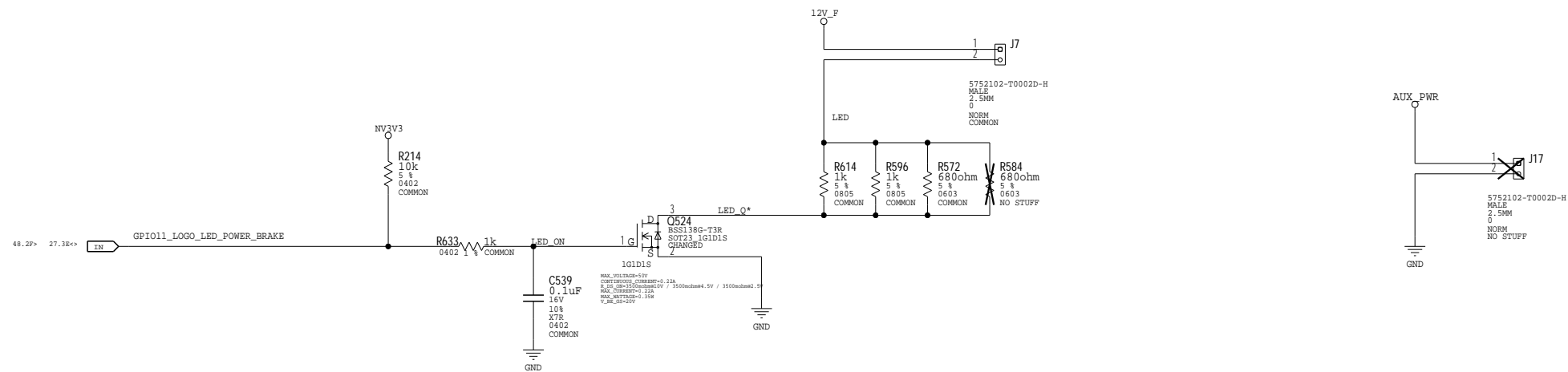
BOM REV A

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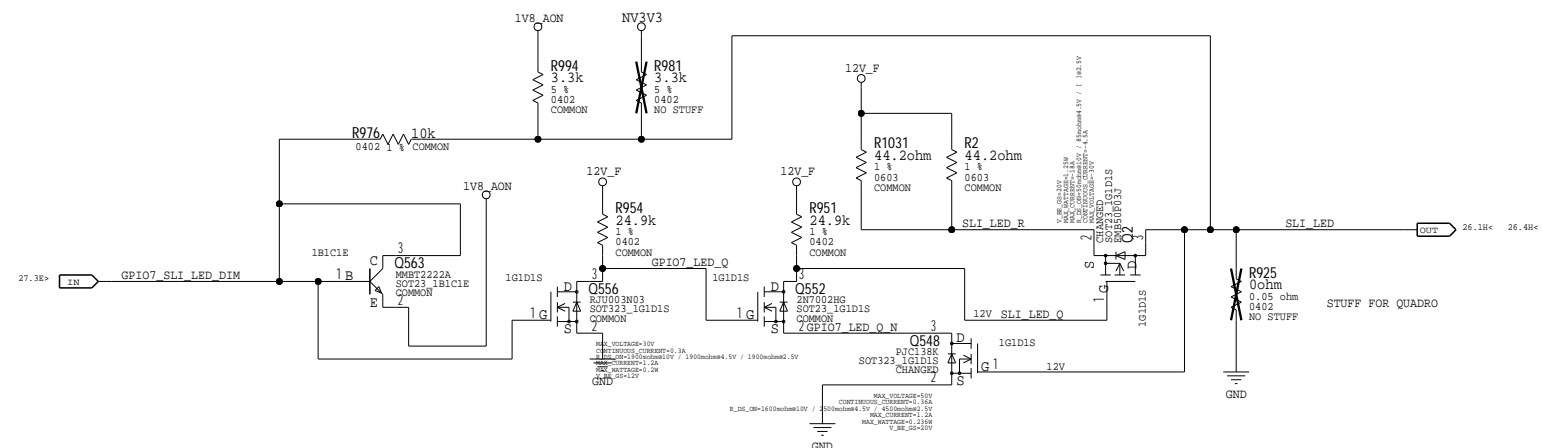
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PAGE DETAIL	GEFORCE LED AND SLI LED

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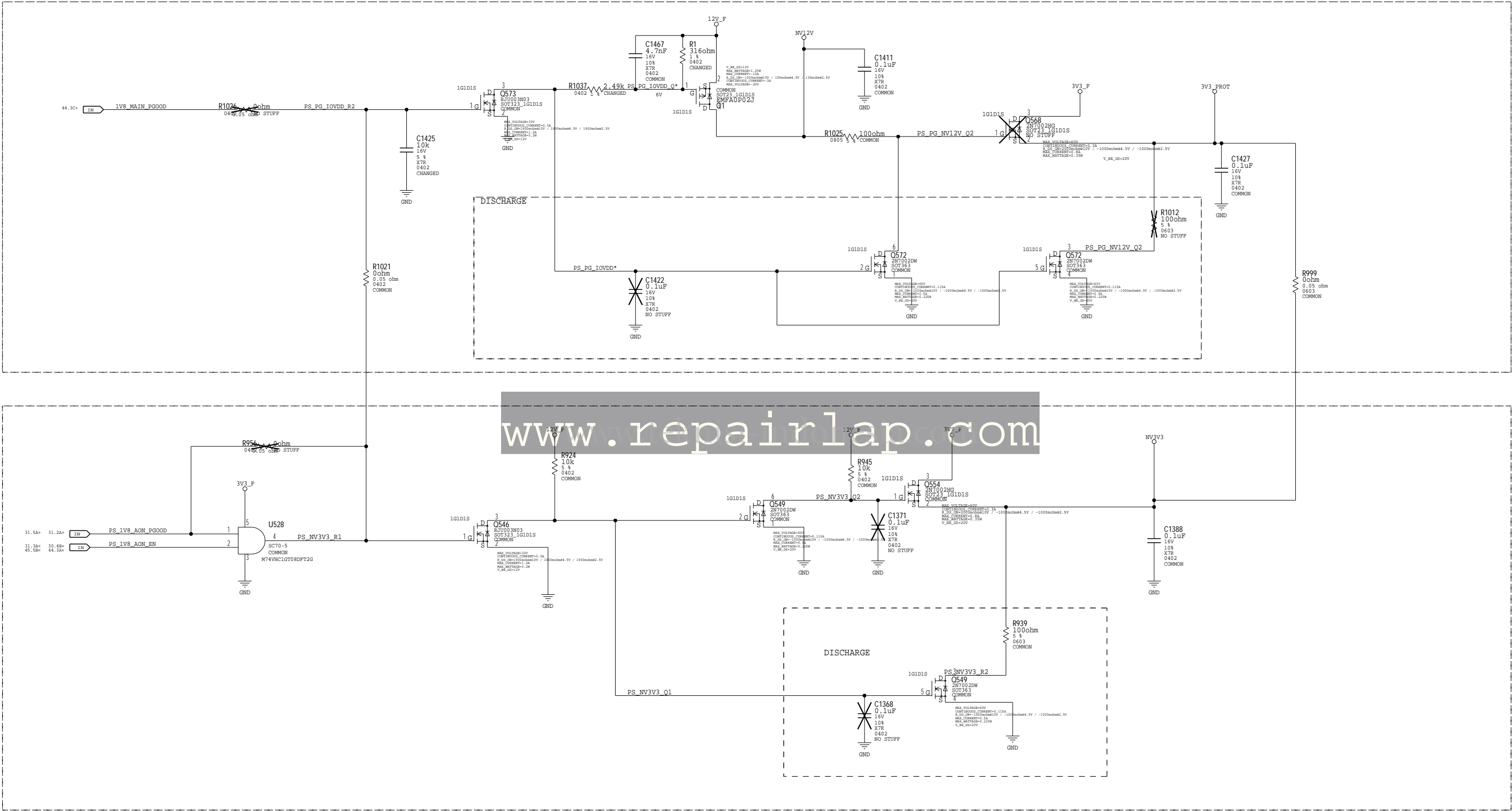
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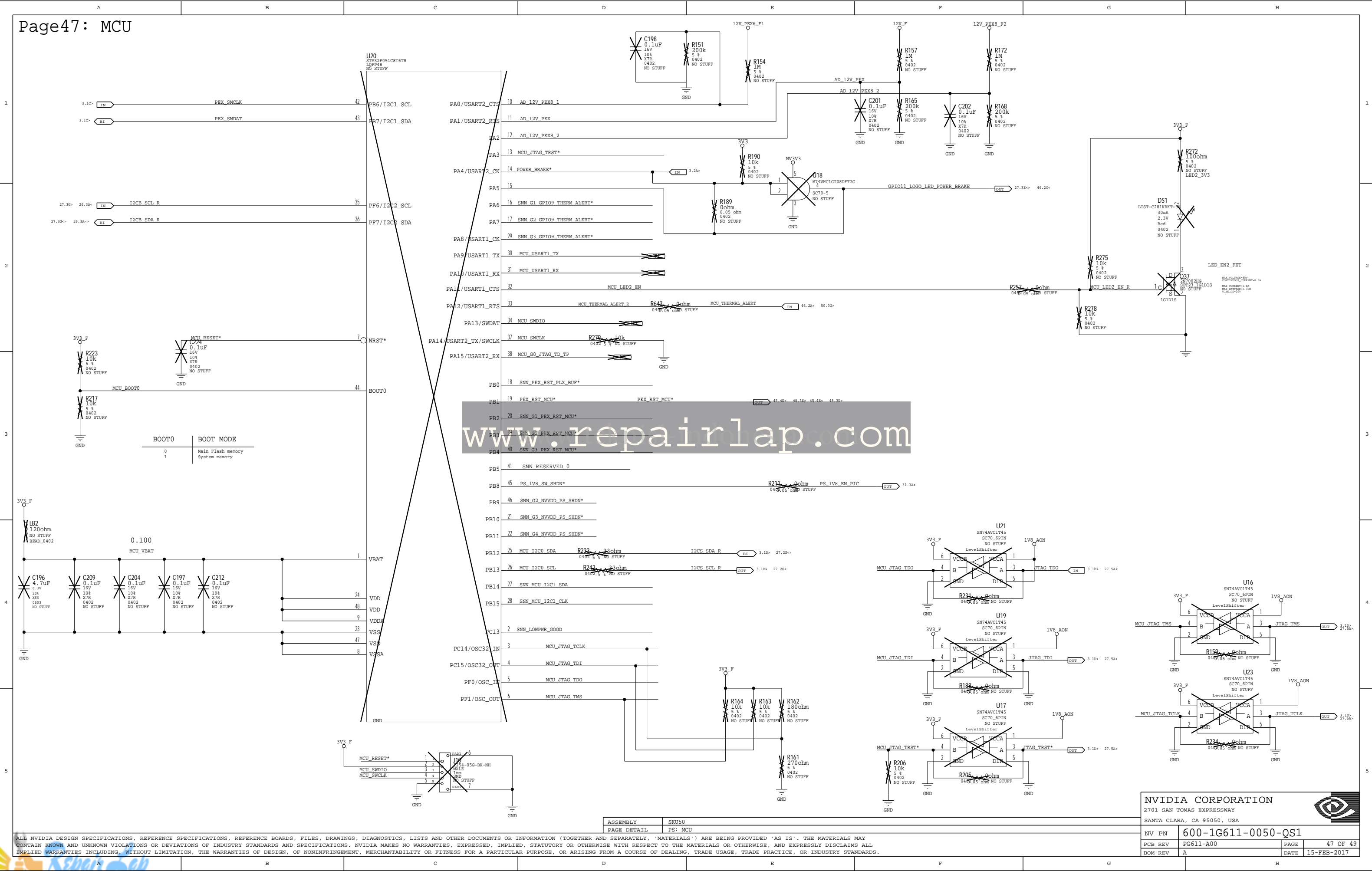
NV_PN	600-1G611-0050-QS1
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BOM REV	A	DATE	15-FEB-2017

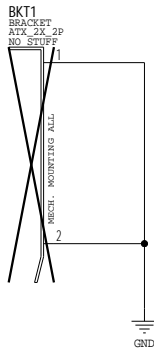


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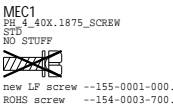




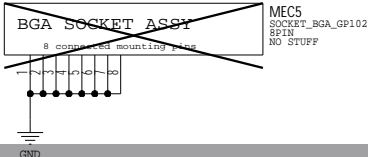
Brackets:



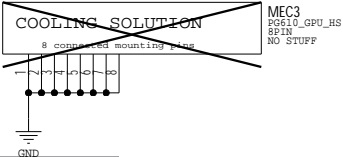
Bracket Screw



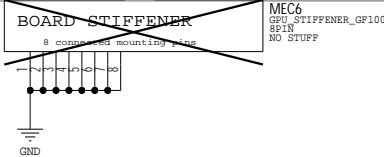
GPU SOCKET



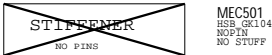
GPU HEATLINK



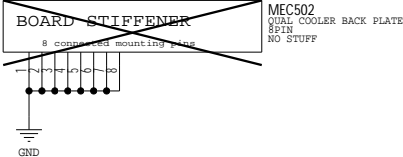
GPU Stiffener (BRING-UP COOLER)



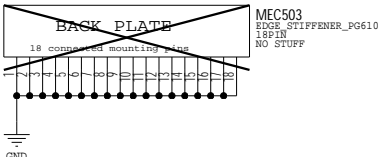
STIFFENER



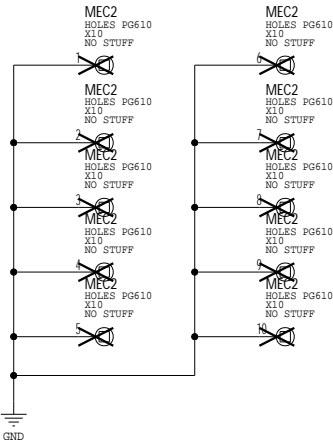
QUAL COOLER STIFFENER



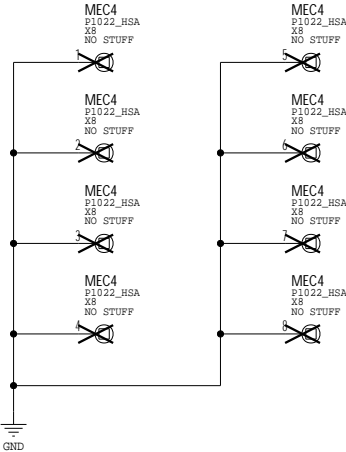
BOARD BACK PLATE

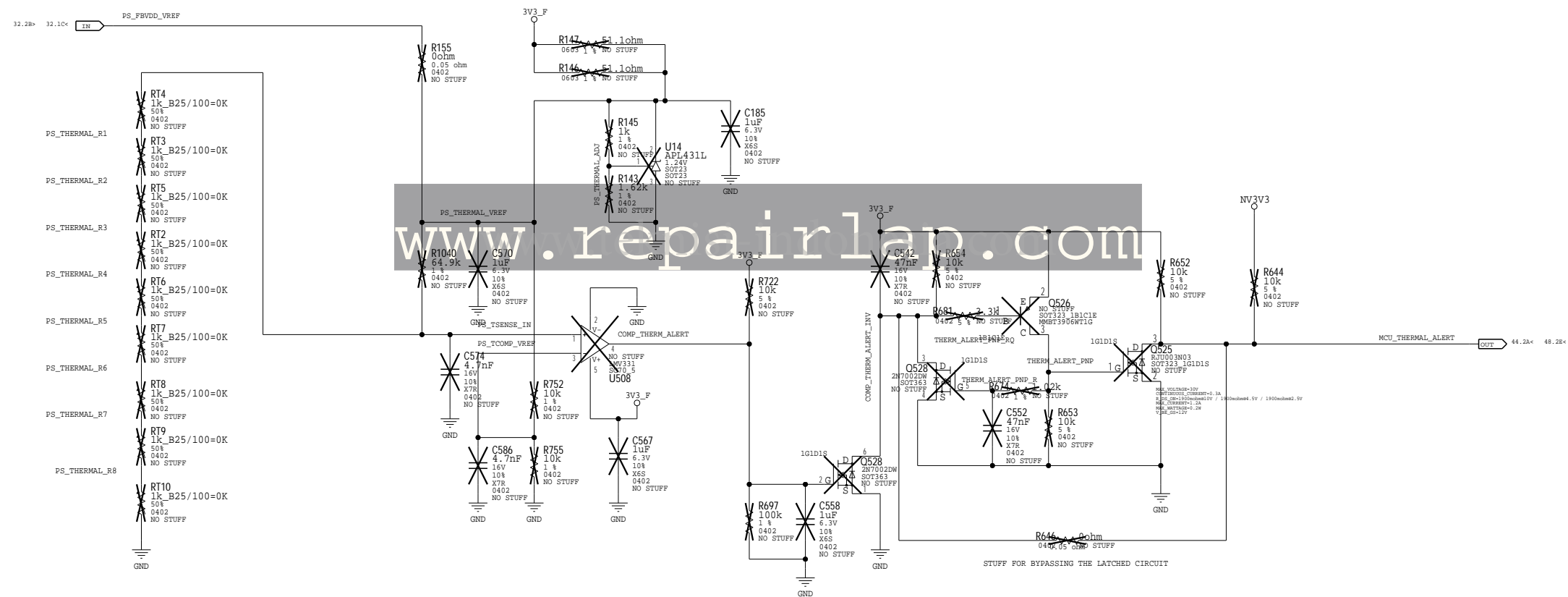


Mechanical Holes Symbol




GPU HOLES SYMBOL





ASSEMBLY	SKU50
PAGE DETAIL	VR Thermal Protection

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