

PG132-A02

370W, FH Std PCB, 384b, GDDR6x 2CH X16
DP + DP + DP + HDMI/DP

TABLE OF CONTENTS

Page Description

1	Table of Contents
2	BLOCK DIAGRAM
3	PCI EXPRESS
4	MEMORY: GPU PARTITION A/B
5	MEMORY: FBA PARTITION[31:0]
6	MEMORY: FBA PARTITION[63:32]
7	MEMORY: FBB PARTITION[31:0]
8	MEMORY: FBB PARTITION[63:32]
9	MEMORY: GPU PARTITION C/D
10	MEMORY: FBC PARTITION[31:0]
11	MEMORY: FBC PARTITION[63:32]
12	MEMORY: FBD PARTITION[31:0]
13	MEMORY: FBD PARTITION[63:32]
14	MEMORY: GPU PARTITION E/F
15	MEMORY: FBE PARTITION[31:0]
16	MEMORY: FBE PARTITION[63:32]
17	MEMORY: FBF PARTITION[31:0]
18	MEMORY: FBF PARTITION[63:32]
19	GPU GND, RFUs & RSVD
20	GPU POWERS
21	GPU DECOUPLING NVVDD
22	GPU DECOUPLING FBVDDQ
23	GPU DECOUPLING MSVDD
24	BLANK
25	NVHS x16

Page Description

26	MISC: THERMAL, JTAG, GPIO
27	IFPA UNUSED, IFPB UNUSED
28	IFPE DP
29	IFPD DP
30	IFPC HDMI/DP
31	IFPF DP
32	MISC. ROM, STRAPS
33	MISC. XTAL, PLL
34	PS: 5V
35	PS: PEX_DVDD and 1V8
36	BLANK
37	PS: FBVDD Controller_OVR3
38	PS: FBVDDQ_OVR4
39	PS: FBVDD PH1
40	PS: FBVDD PH3
41	PS: FBVDD PH2
42	PS: FBVDD PH4
43	PS: FBVDD OUTPUT CAP
44	PS: FBVDD_OUTPUT_CAP_NEAR_MEMORY
45	PS: MSVDD CONTROLLER
46	PS: MSVDD PH1
47	PS: MSVDD PH2
48	PS: MSVDD PH3 and PH5
49	PS: MSVDD PH4 and PH6
50	PS: MSVDD OUTPUT CAP(TOP)

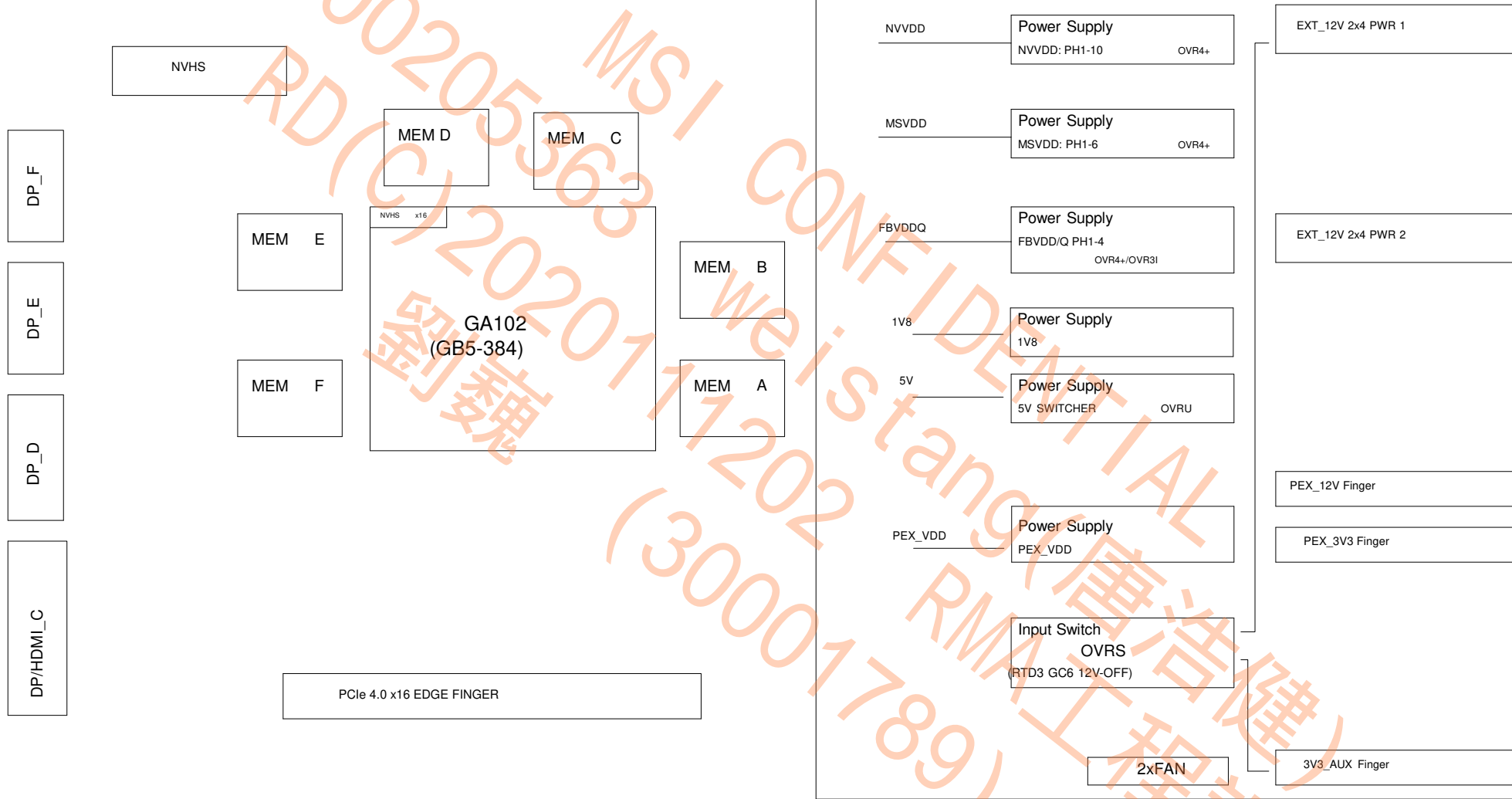
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53	PS: NVVDD PH1 (PWM1)
54	PS: NVVDD PH2(PWM6)
55	PS: NVVDD PH3 (PWM3) and PH4 (PWM3)
56	PS: NVVDD PH5(PWM7) and PH7(PWM8)
57	PS: NVVDD PH6 (PWM7)
58	PS: NVVDD PH8(PWM5) and PH9(PWM2)
59	PS: NVVDD PH10 (PWM4)
60	Colayout_Notes
61	BLANK
62	PS: NVVDD OUTPUT CAP(TOP)
63	BLANK
64	PS: INPUT SWITCH RTD3
65	BLANK
66	PS: INPUTS, FILTERING, and, MONITORING
67	PS: HOT UNPLUG
68	PS: Discrete Power Steering
69	PS: PREFILTER
70	PS: PREFILTER B
71	Sequence: 5V, 1V8, 3V3_SEQ
72	Sequence: NV, PEX, FB EN
73	Sequence: 3V3 MONITOR
74	Sequence: MISC
75	MISC: LED & FAN

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PCB REV	PG132-A02	PAGE	1 OF 79
BCM REV	A	DATE	10-JUN-2020

Block Diagram



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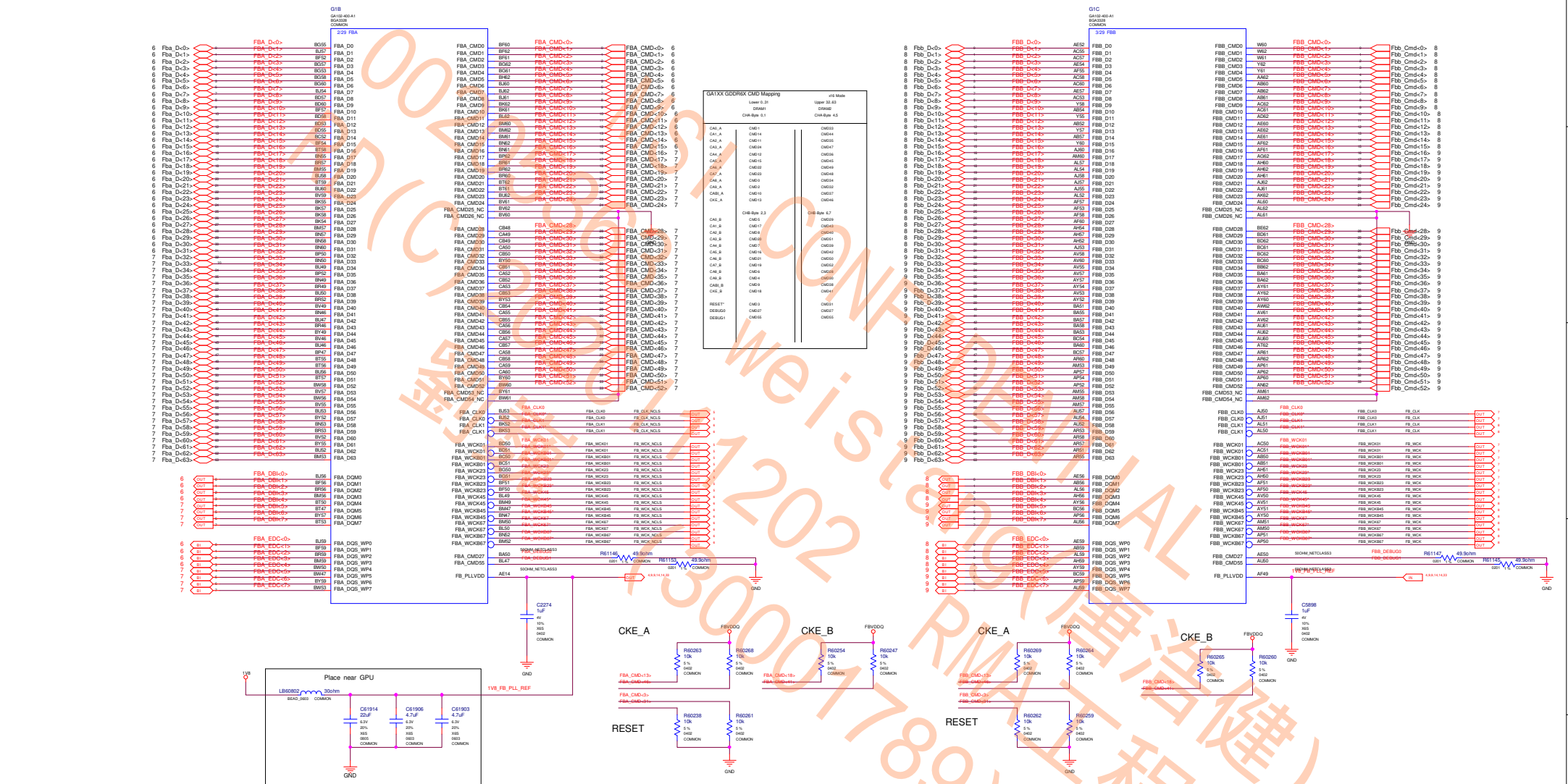
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NV_PN	600-1G132-BASE-300	PAGE	2 OF 70
PCB REV	PG132-A02	DATE	10-JUN-2020
BCM REV	A		

MEMORY: GPU Partition A/B



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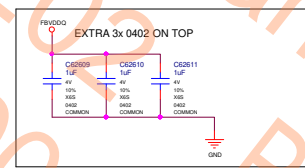
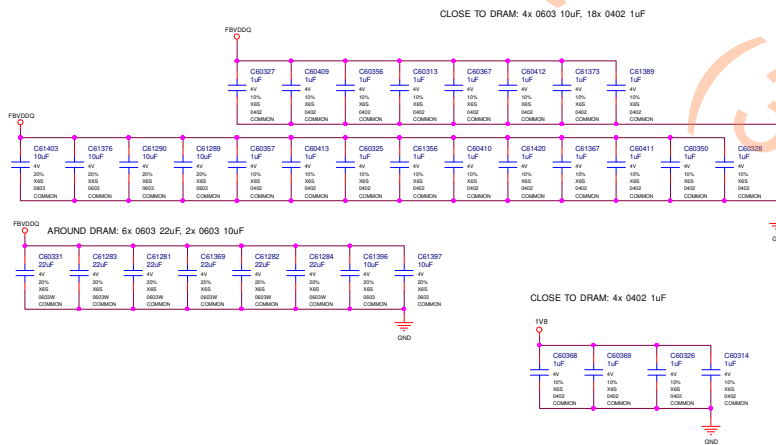
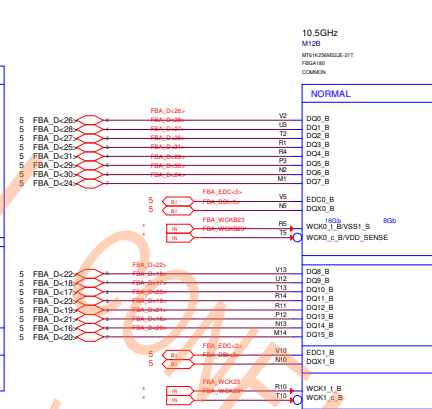
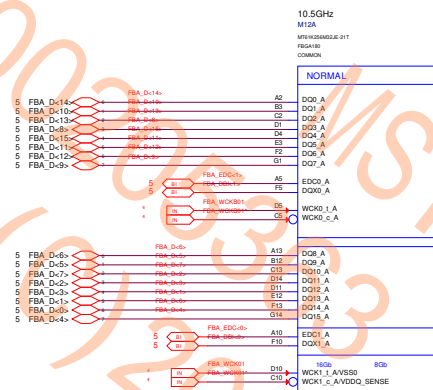
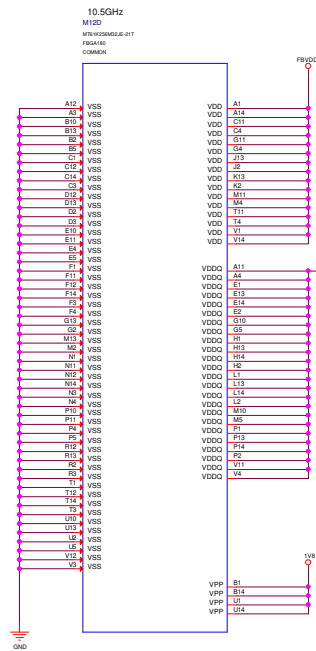


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PCB REV	PG132-A02	PAGE	4 OF 79
BCM REV	A	DATE	10-JUN-2020

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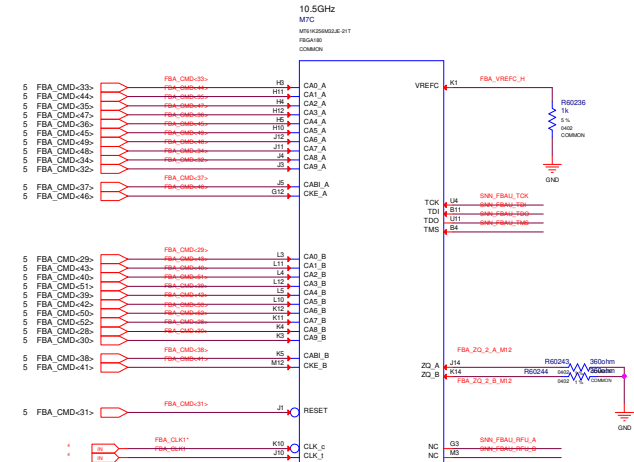
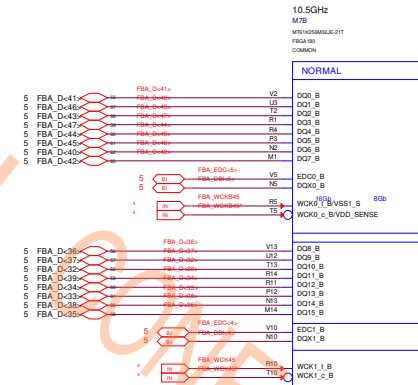
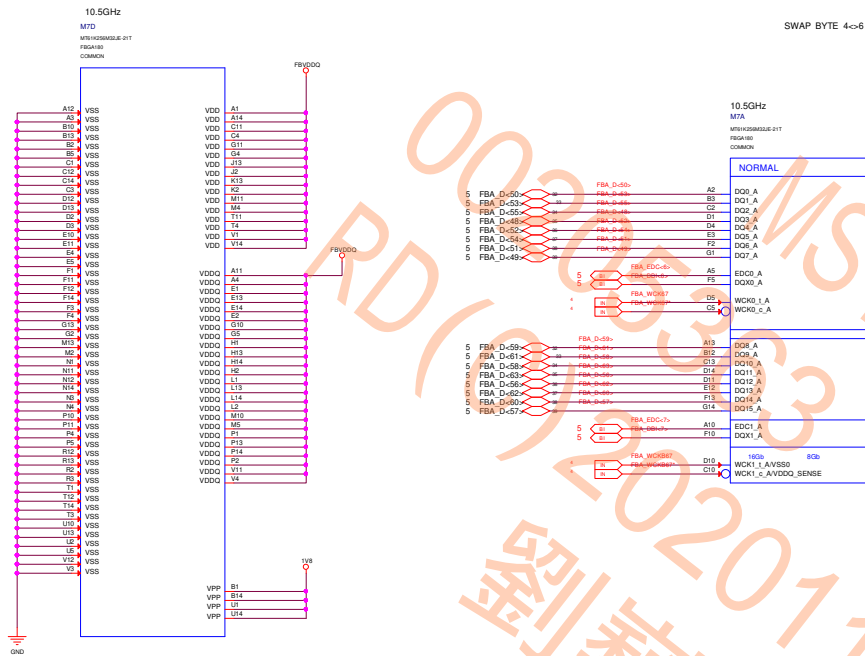
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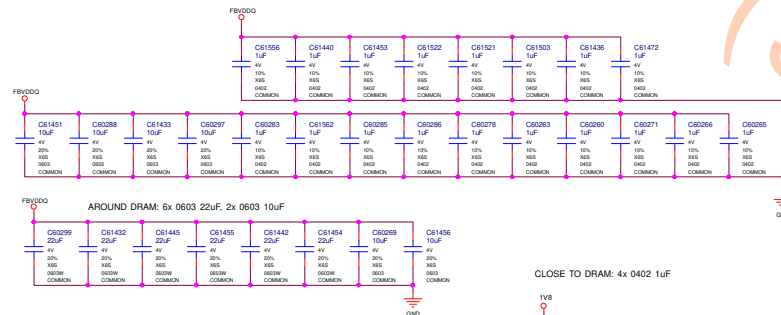
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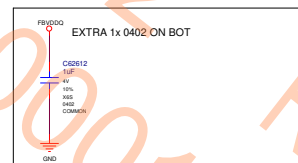
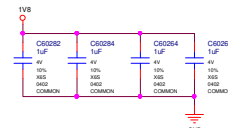
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CLOSE TO DRAM: 4x 0402 1uF



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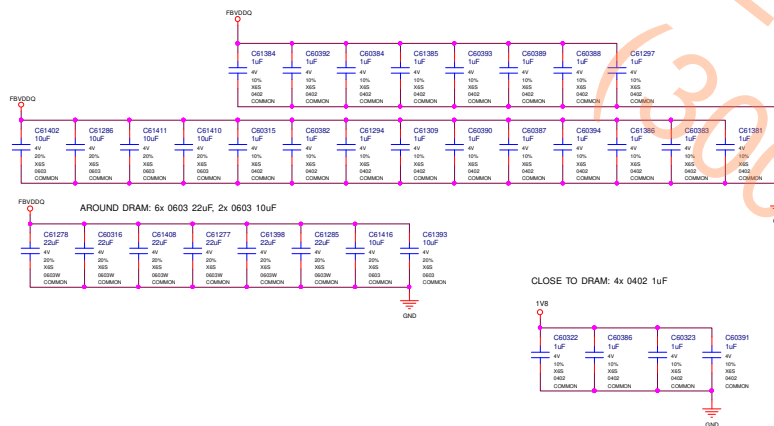
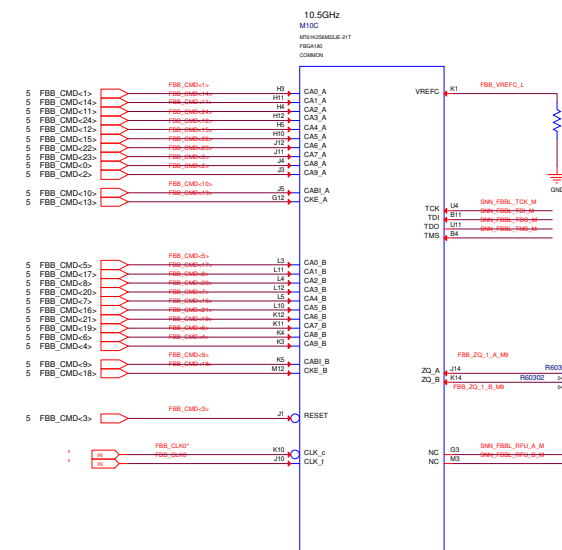
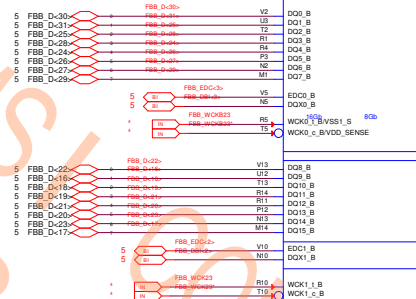
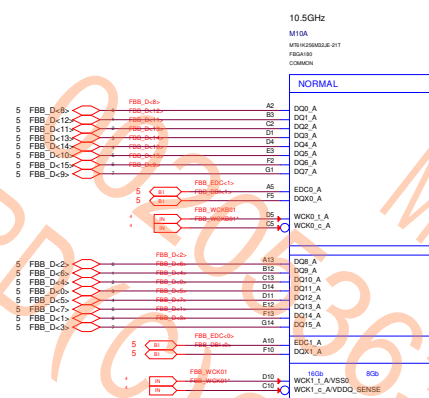
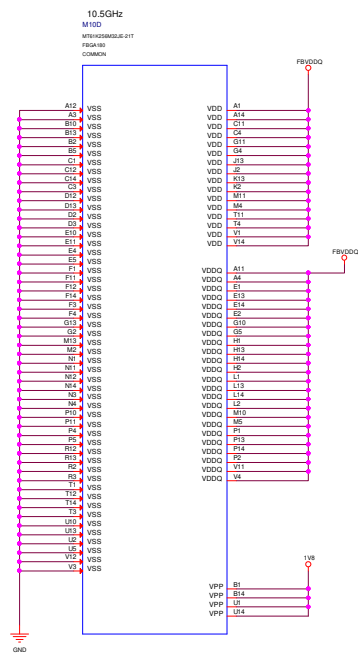


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PCB REV	PG132-A02
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MEMORY: FBB Partition 31..0



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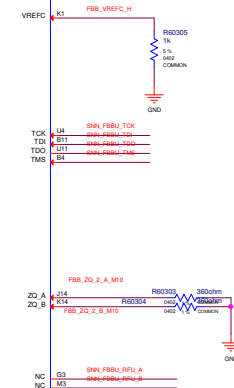
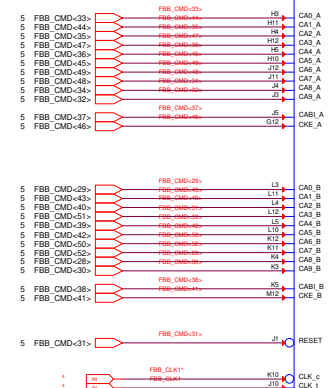
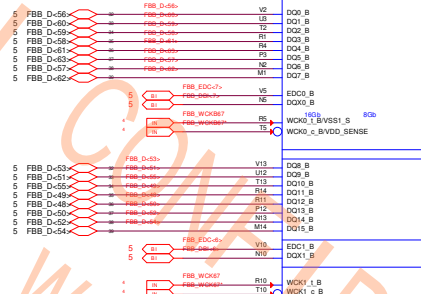
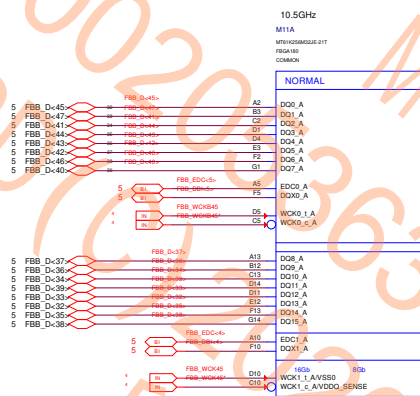
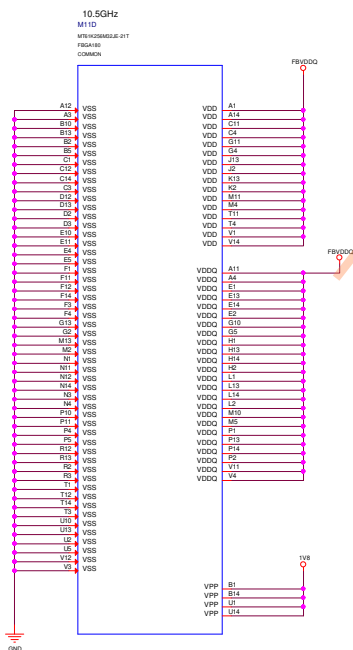


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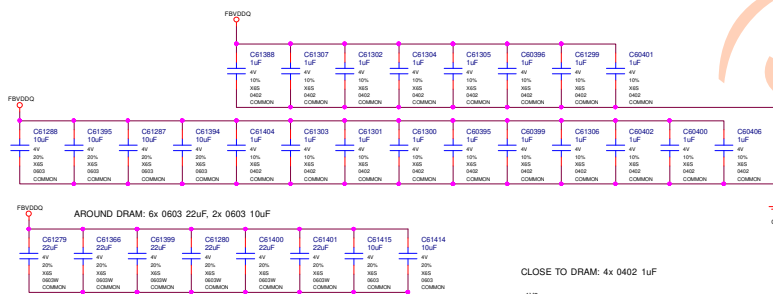
PCB REV	PG132-A02	PAGE	7 OF 79
BCM REV	A	DATE	10-JUN-2020

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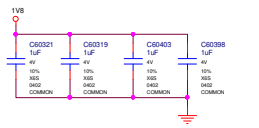
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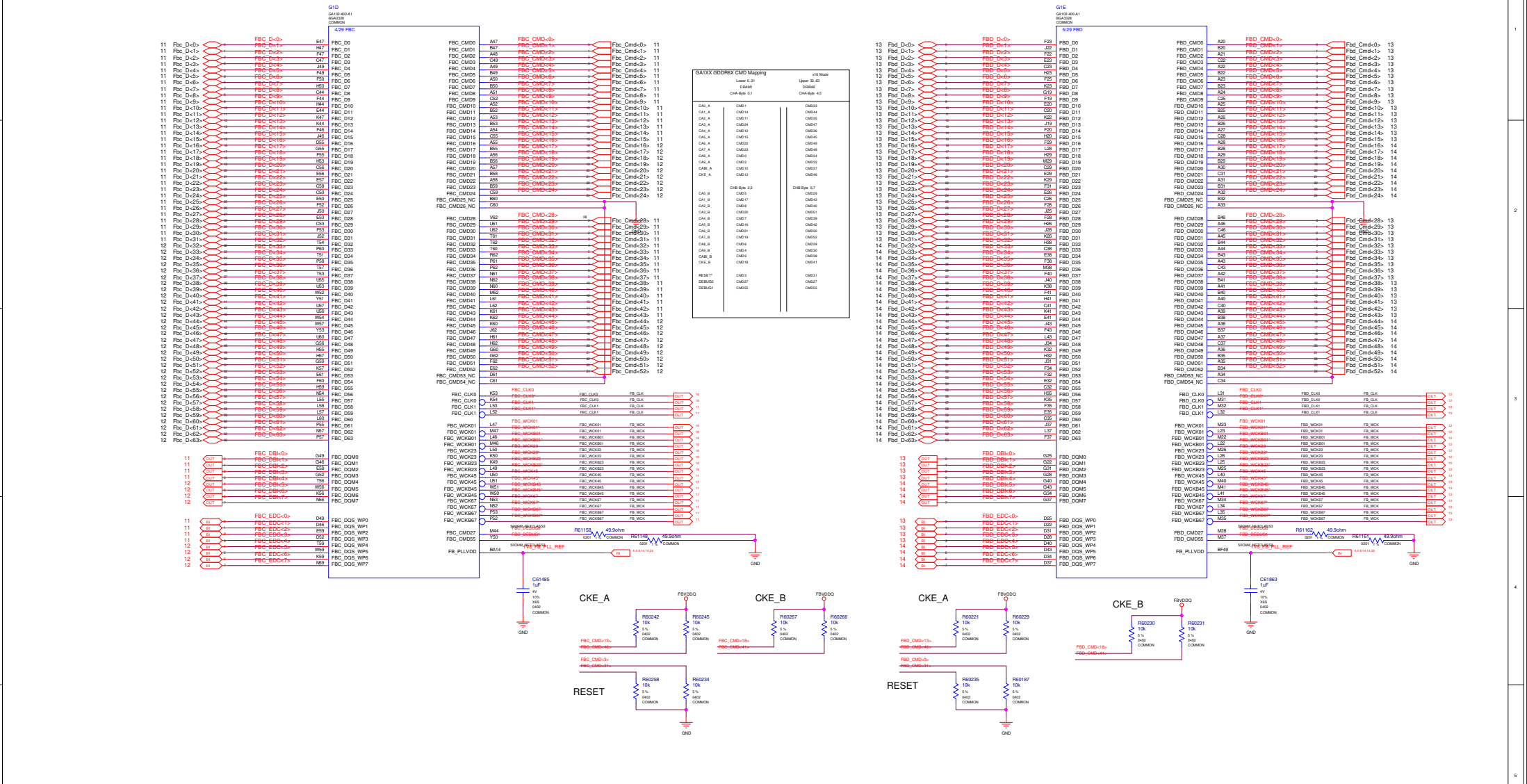
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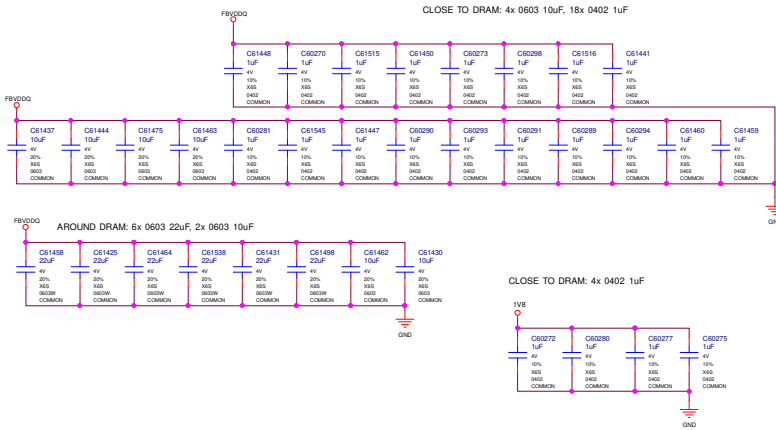
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PCB REV	PG132-002	PAGE	8 OF 79
BCM REV	A	DATE	10 JUN 2020

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MEMORY: GPU Partition C/D



MEMORY: FBC Partition 31..0



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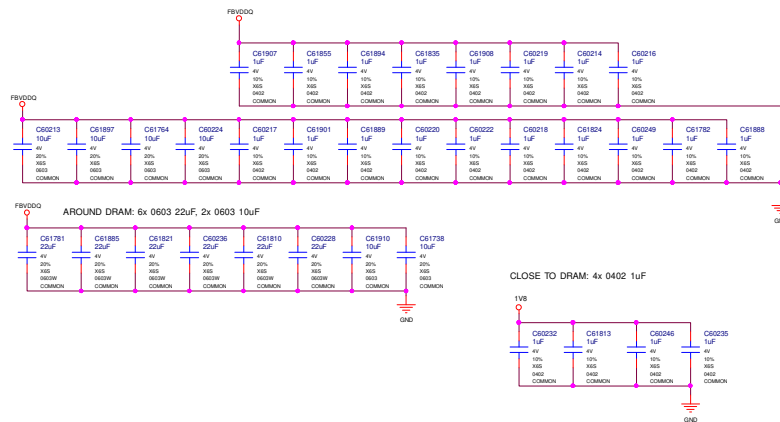
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TCR REV	PG132-A02	PAGE	10 OF 79
BCM REV	A	DATE	10-JUN-2020

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MEMORY: FBD Partition 31..0



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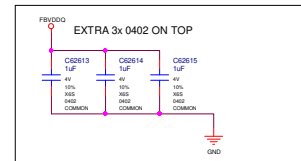
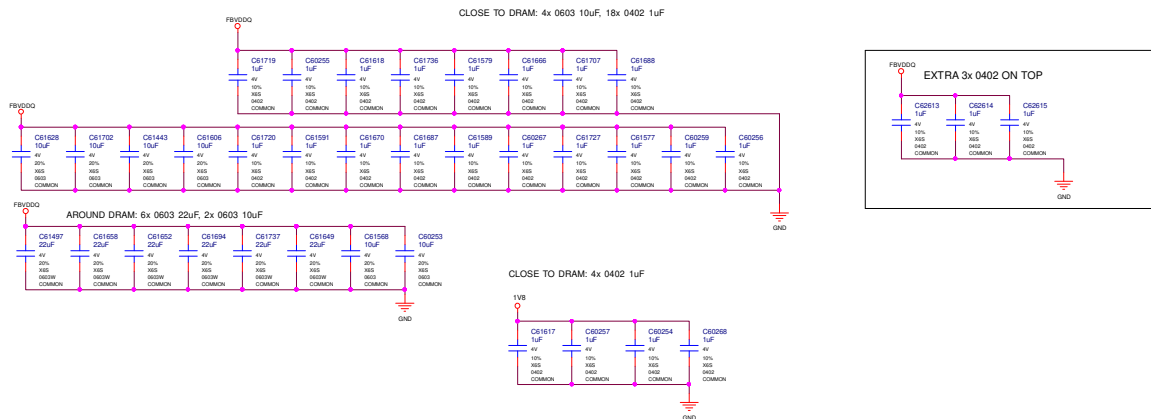
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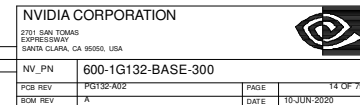


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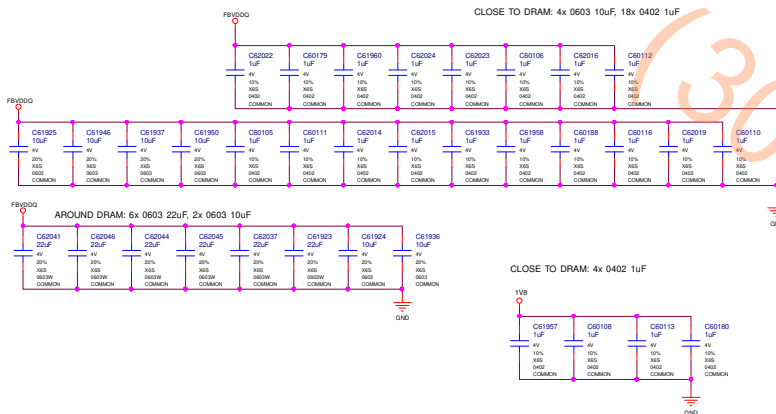
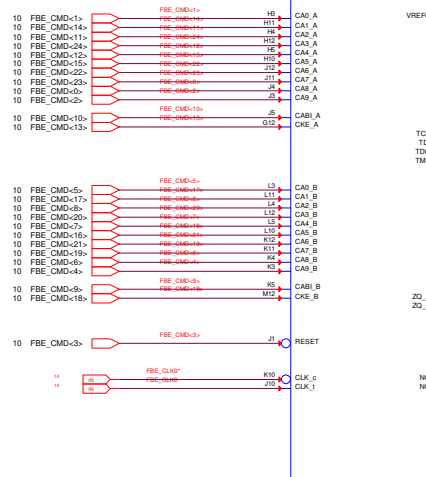
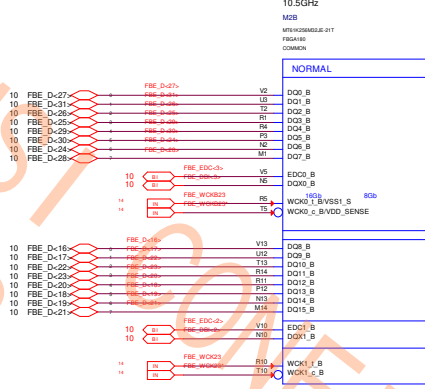
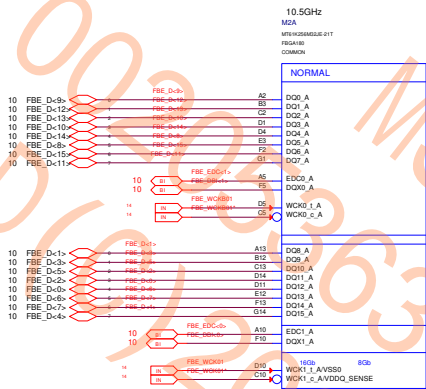
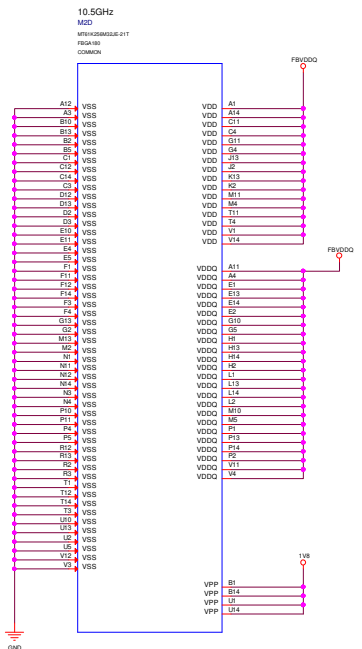
PCB REV	PG132-A02	PAGE	12 OF 79
BOM REV	A	DATE	10-JUN-2020

MEMORY: FBD Partition 63..32





MEMORY: FBE Partition 31..0



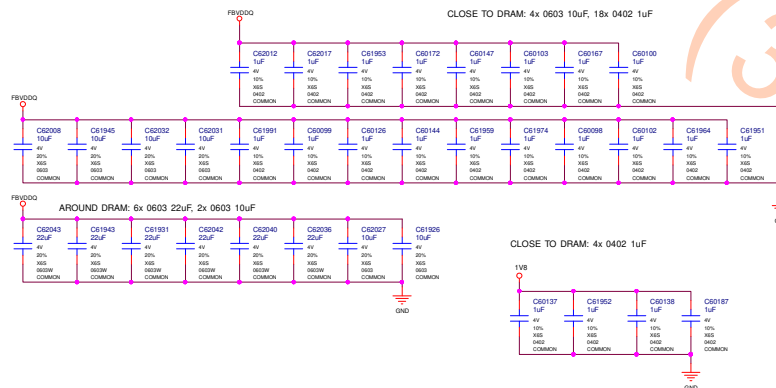
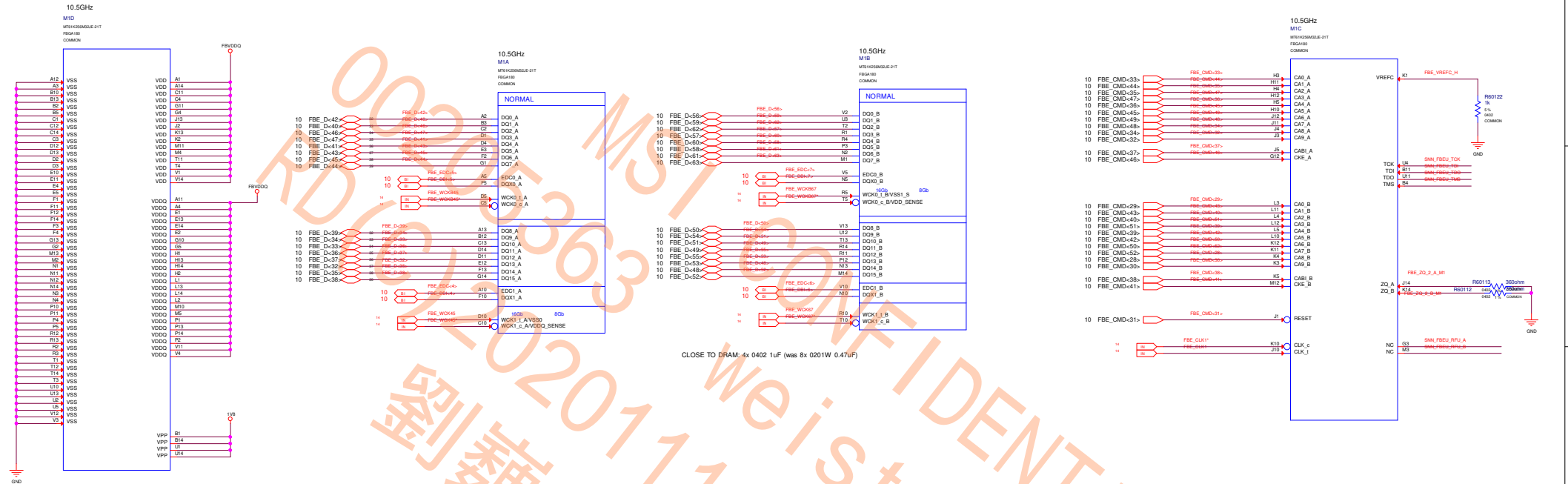
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PAGE DETAIL	MEMORY: FBE PARTITION31..0
NV_PN	600-1G132-BASE-300
PCB REV	PG132-A02
ICM REV	A
PAGE	15 OF 79
DATE	10 JUN 2020

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MEMORY: FBE Partition 63..32



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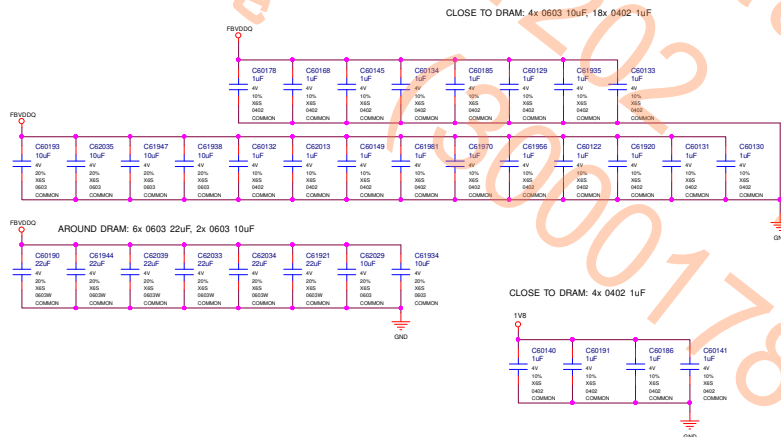
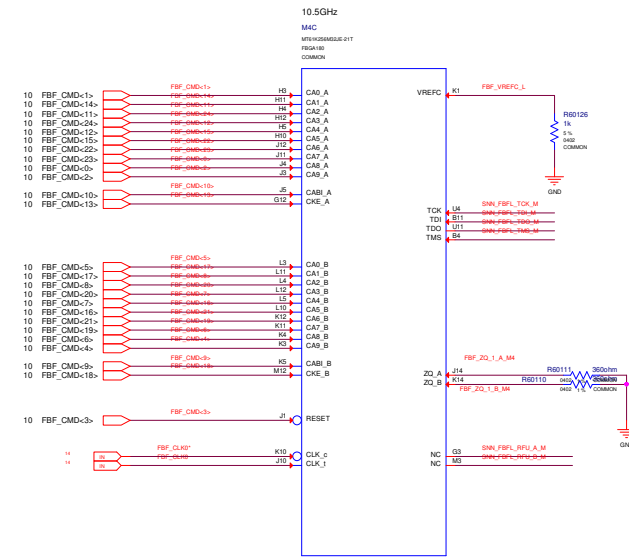
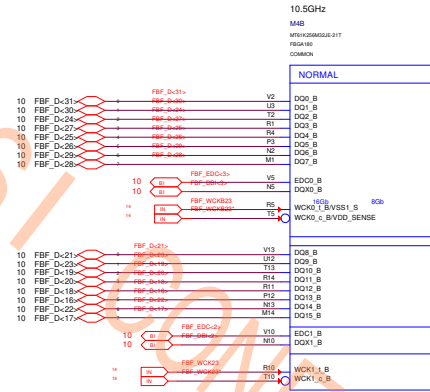
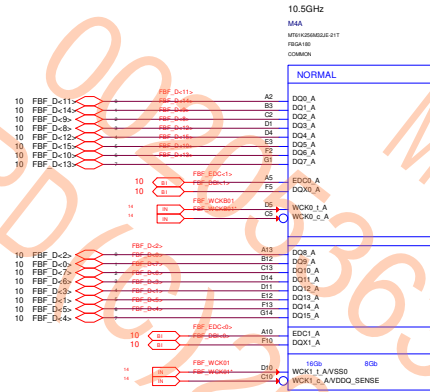
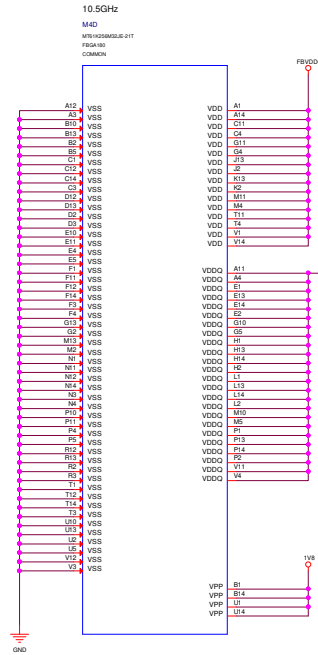


NV_PN	600-1G132-BASE-300
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PCB REV	PG132-A02	PAGE	16 OF 79
BCM REV	A	DATE	10-JUN-2020

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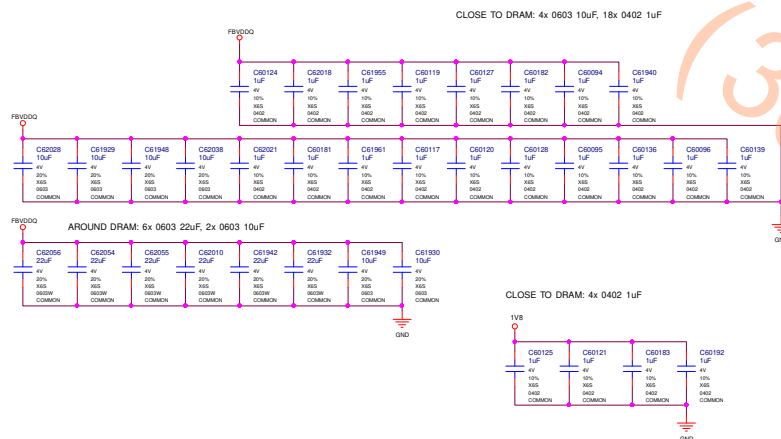
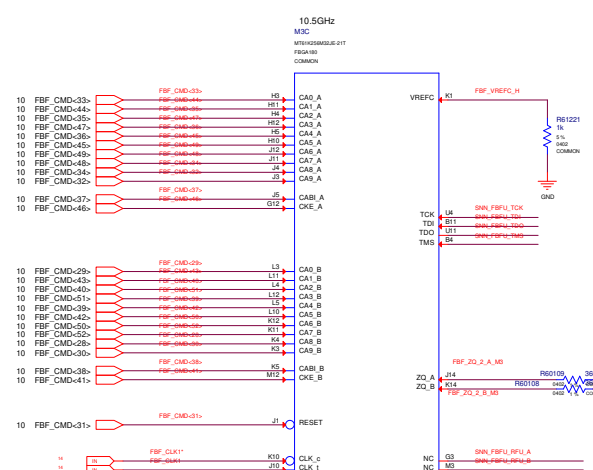
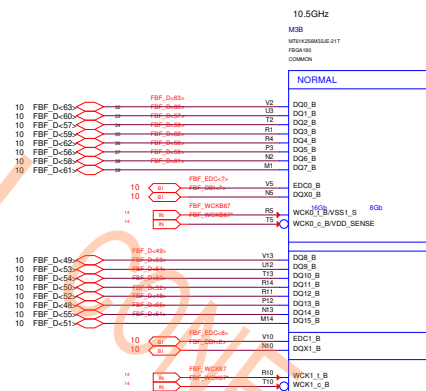
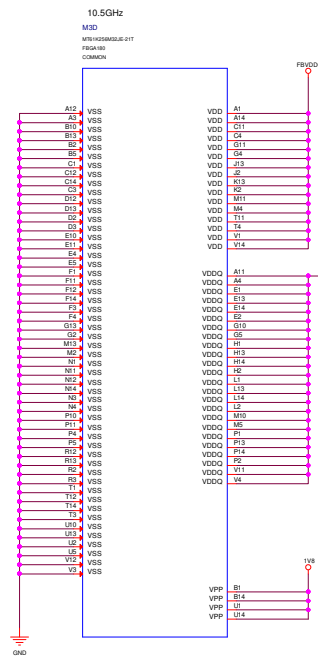
MEMORY: FBF Partition 31..0



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NV_PN	600-1G132-BASE-300
PCB REV	PG132-A02
BCM REV	A
PAGE	17 OF 79
DATE	10 JUN 2020

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MEMORY: FBF Partition 63..32



ASSEMBLY	<ASSEMBLY...DESCRIPTION>
PAGE DETAIL	MEMORY: FBF PARTITION 633

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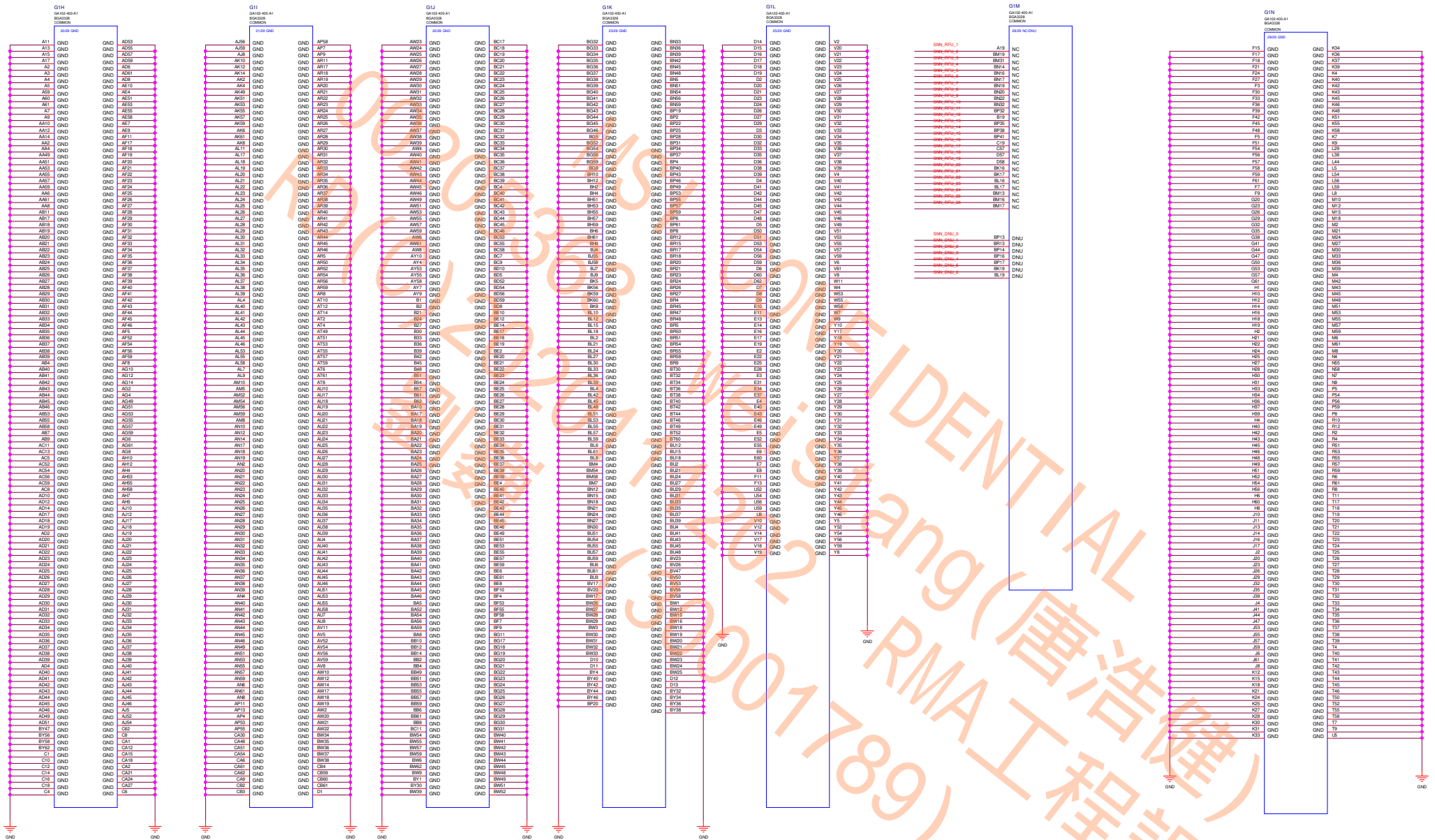


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PCB REV	PG132-A
BCM REV	A

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GPU GND, RFUs & RSVD



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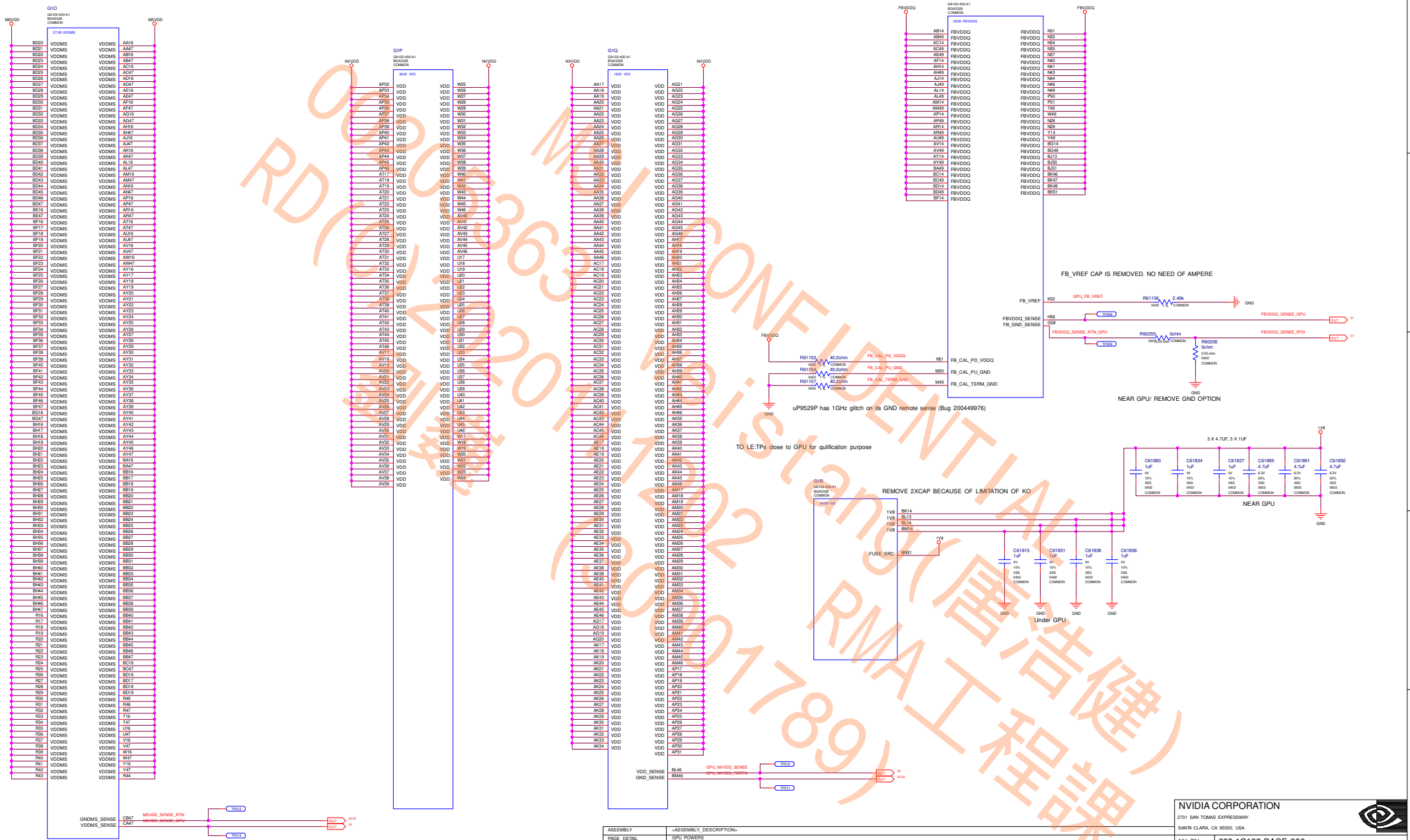
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USAASSEMBLY DESCRIPTION:
GPU GND, RFUs & RSVD

PN PN 600-1G132-BASE-300


PCB REV PG132-202 PAGE 19 OF 79
RCM REV A DATE 10-JUN-2020

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GPU PWR and GND



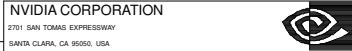
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PCB REV	PG132-A02	PAGE	20 OF 79	
BOM REV	A	DATE	10-JUN-2020	

NVVDD UNDER GPU

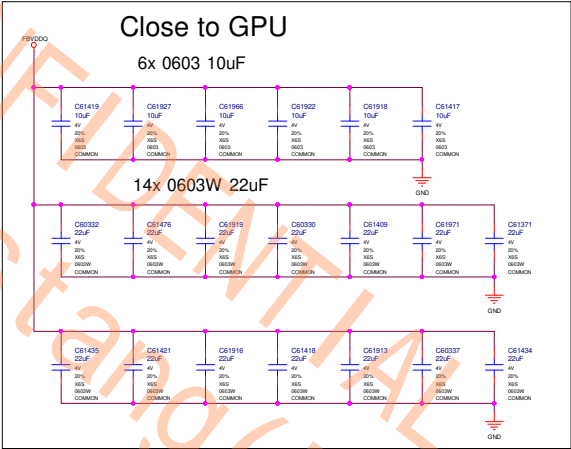


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NV_PN	600-1G132-BASE-300		
PCB REV	PG132-A02	PAGE	21 OF 79
BCM REV	A	DATE	10-JUN-2020

FBVDDQ



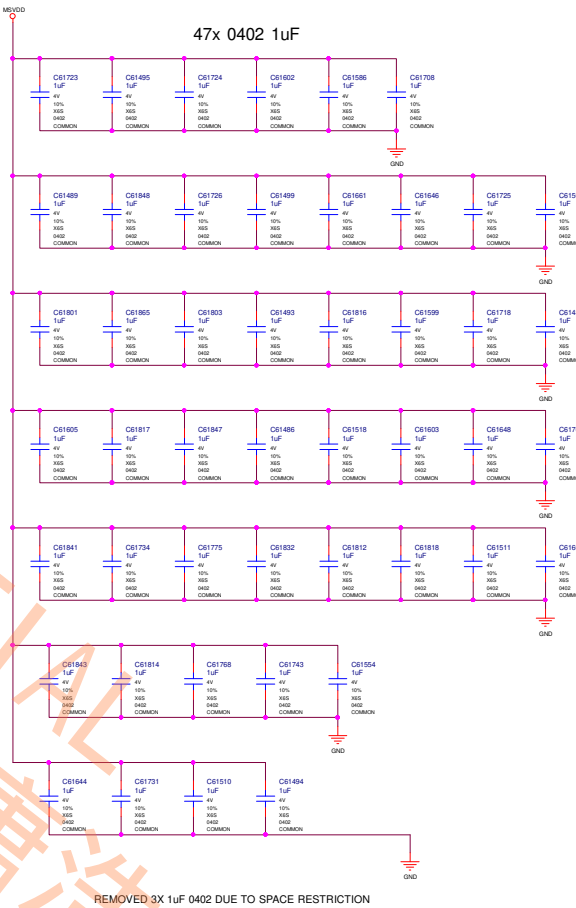
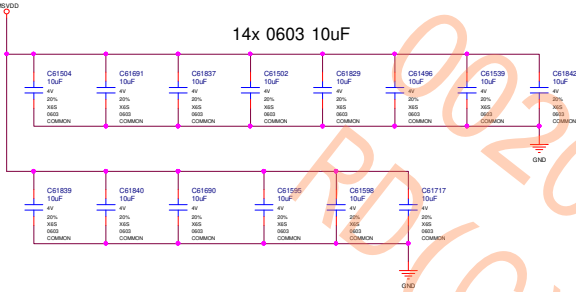
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ASSEMBLY	ASSEMBLY DESCRIPTION
PAGE: DETAIL	GPU DECOUPLING FBVDDQ

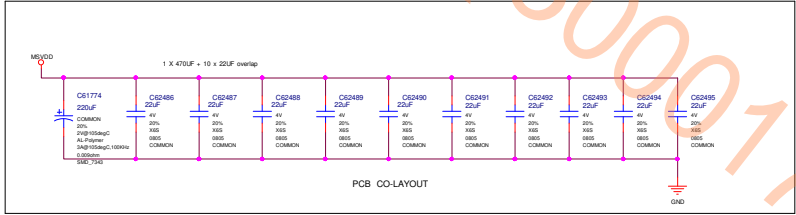
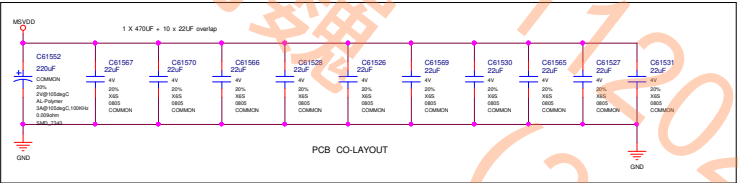
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NV_PN	600-1G132-BASE-300		
PCB REV	PG132-A02	PAGE	22 OF 79
BCM REV	A	DATE	10-JUN-2020

MSVDD

UNDER GPU



2x SMD7343 220uF (EACH CO-LAYOUT WITH 10x 22uF 0805)



REMOVED 3X 1uF 0402 DUE TO SPACE RESTRICTION

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ASSEMBLY	ASSEMBLY DESCRIPTION
PCB DETAIL	GPU DECOUPLING MSVDD

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PCB REV

PG132-A02

BCM REV

A

PAGE

23 OF 79

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ASSEMBLY	ASSEMBLY DESCRIPTION
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NV_PN	600-1G132-BASE-300		
PCB REV	PG132-A02	PAGE	24 OF 79
BCM REV	A	DATE	10-JUN-2020

NVHS Interface and FRAME LOCK



ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	NVHS x16

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NV_PN	600-1G132-BASE-300
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PCB REV	PG132-A02	PAGE	25 OF 79
BCM REV	A	DATE	10-JUN-2020

Figure 1 shows a horizontal timeline from 1990 to 2010. A vertical line is drawn at the year 1995, with the letter 'H' placed below it. A horizontal bracket spans from the year 1995 to the year 2010, with the letter 'H' placed below it.

MISC1: Fan, Thermal, JTAG, GPIO, STEREO



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ASSEMBLY	ASSEMBLY DESCRIPTION
PAGE DETAIL	MISC. THERMAL, JTAG, GPI

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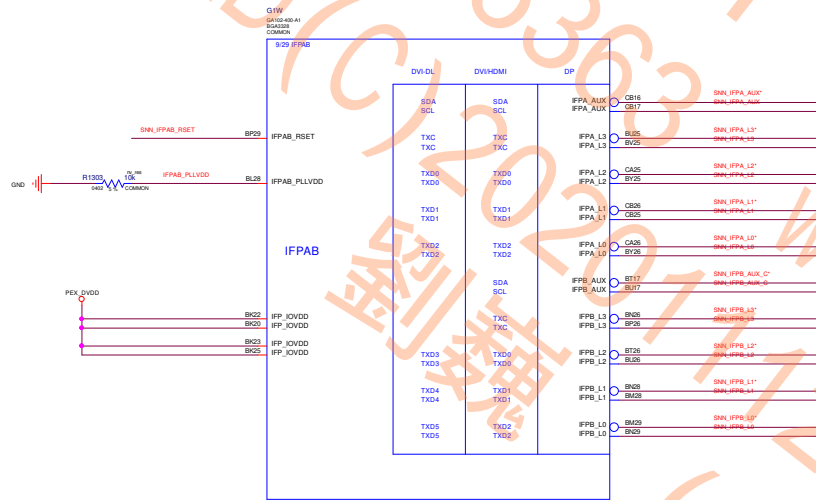


NV_PN	600-1G132-BASE-300
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PCB REV	PG132-A02	PAGE	26 OF 79
BCM REV	A	DATE	10-JUN-2020

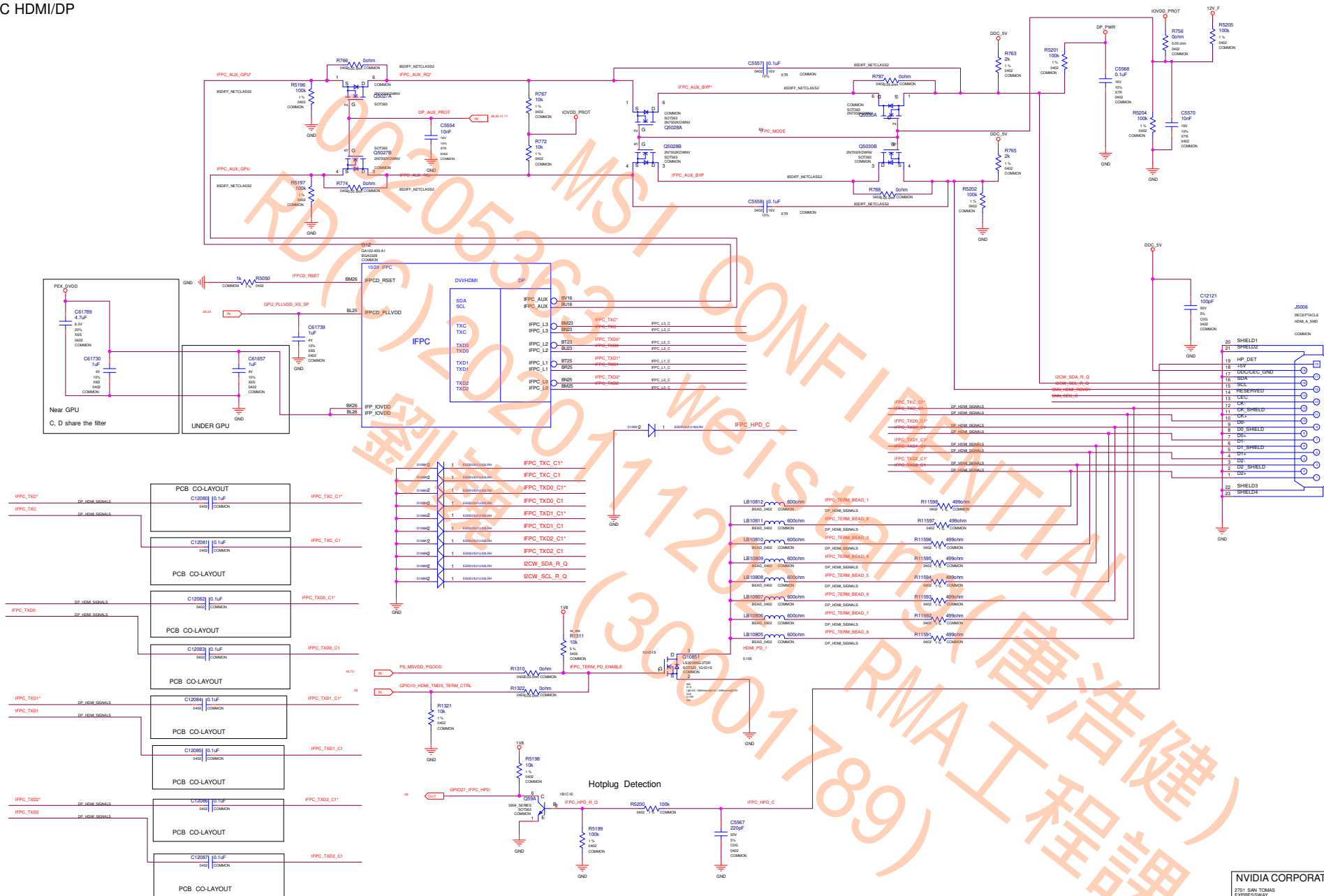
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IFPA UNUSED, IFPB UNUSED



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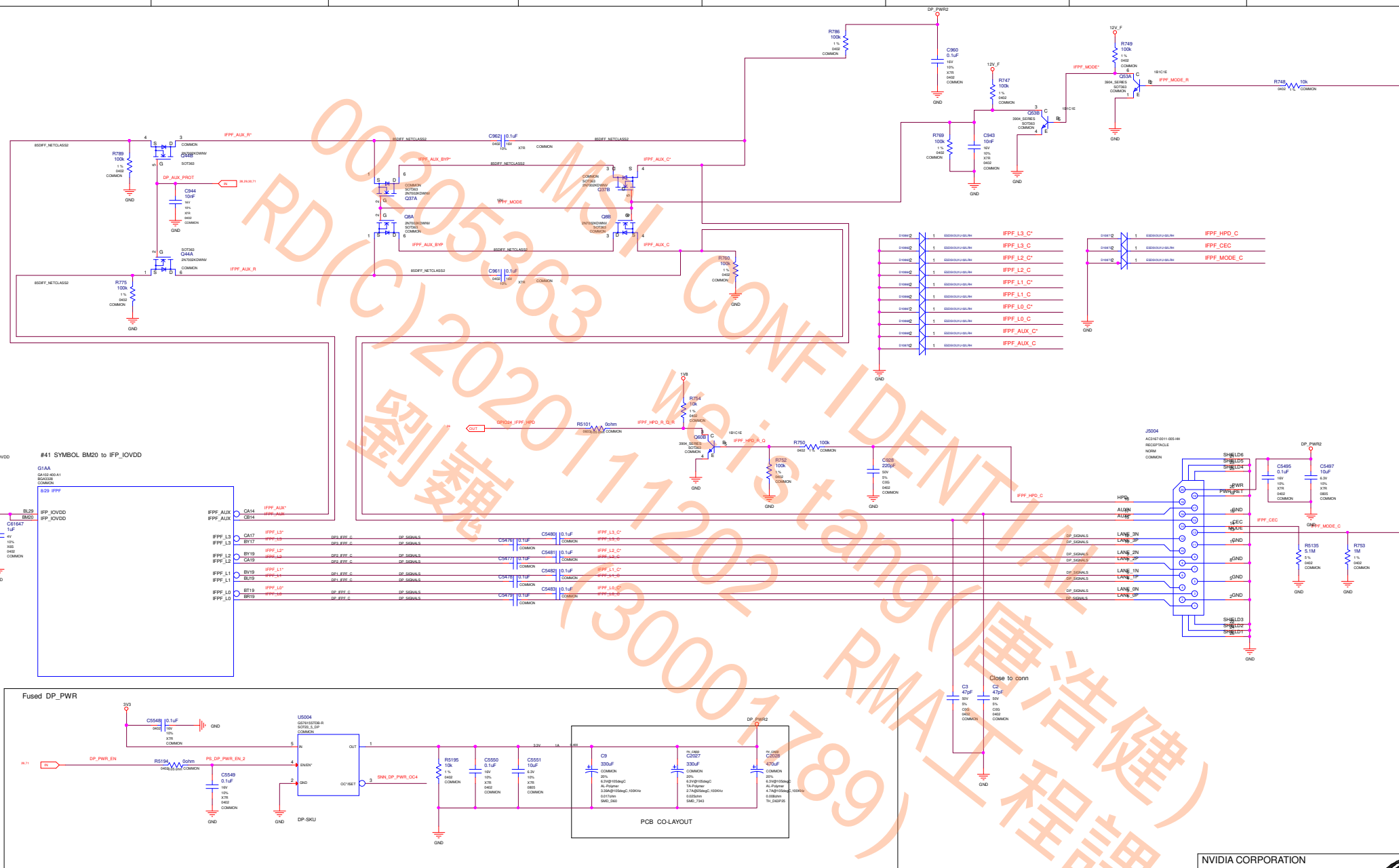
IFPC HDMI/DP

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ICM REV APAGE 30 OF 79
DATE 10-JUN-2020

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MISC: ROM, Straps

GROUP0 STRAP2	STRAP1	STRAP0	RAMCFG[4:0]	
L	L	L	00000	RAMCFG MICRON 8Gb G6X 19Gbps x16 (161-0430-900)
H	L	L	00100	RAMCFG MICRON 8Gb G6X 19Gbps x8 (161-0430-900)
H	L	H	00101	RAMCFG MICRON 8Gb G6X 21Gbps x8 (161-0431-900)
L	L	M	01000	RAMCFG MICRON 8Gb G6X 20Gbps x16 (161-0424-900)
L	L	H	00001	RAMCFG MICRON 8Gb G6X 21Gbps x16 (161-0431-900)
L	M	H	01010	RAMCFG MICRON 8Gb G6X 19Gbps x16 (161-0430-900)

ROM_SO	ROM_SI	ROM_SCLK	SMARTFAN[2:0]/FS_OVERT	1:ENABLE 0:DISABLE
H	H	H	0111	FS_OVERT ENABLE
L	L	L	0000	FS_OVERT DISABLE

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
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DEFAULT

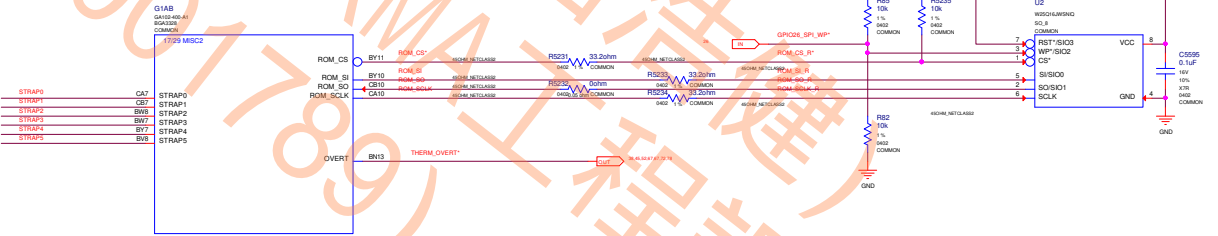
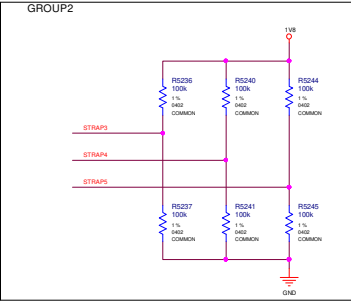
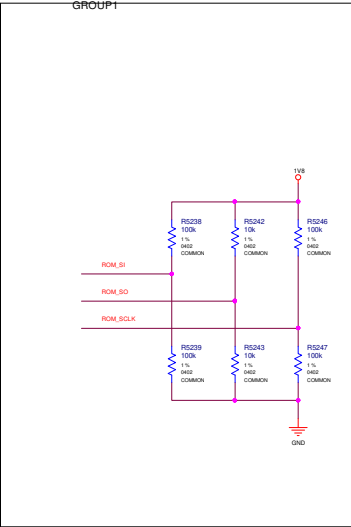
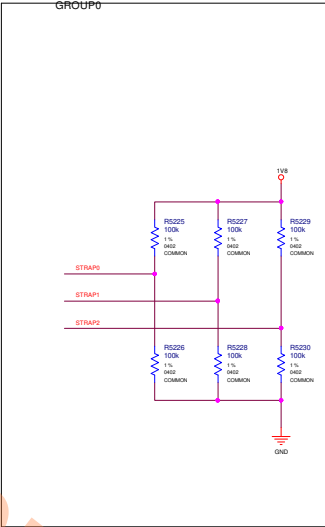
Default

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

<-A01 PCB

<-OLD

<-LATEST A02 PCB



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ROM REV

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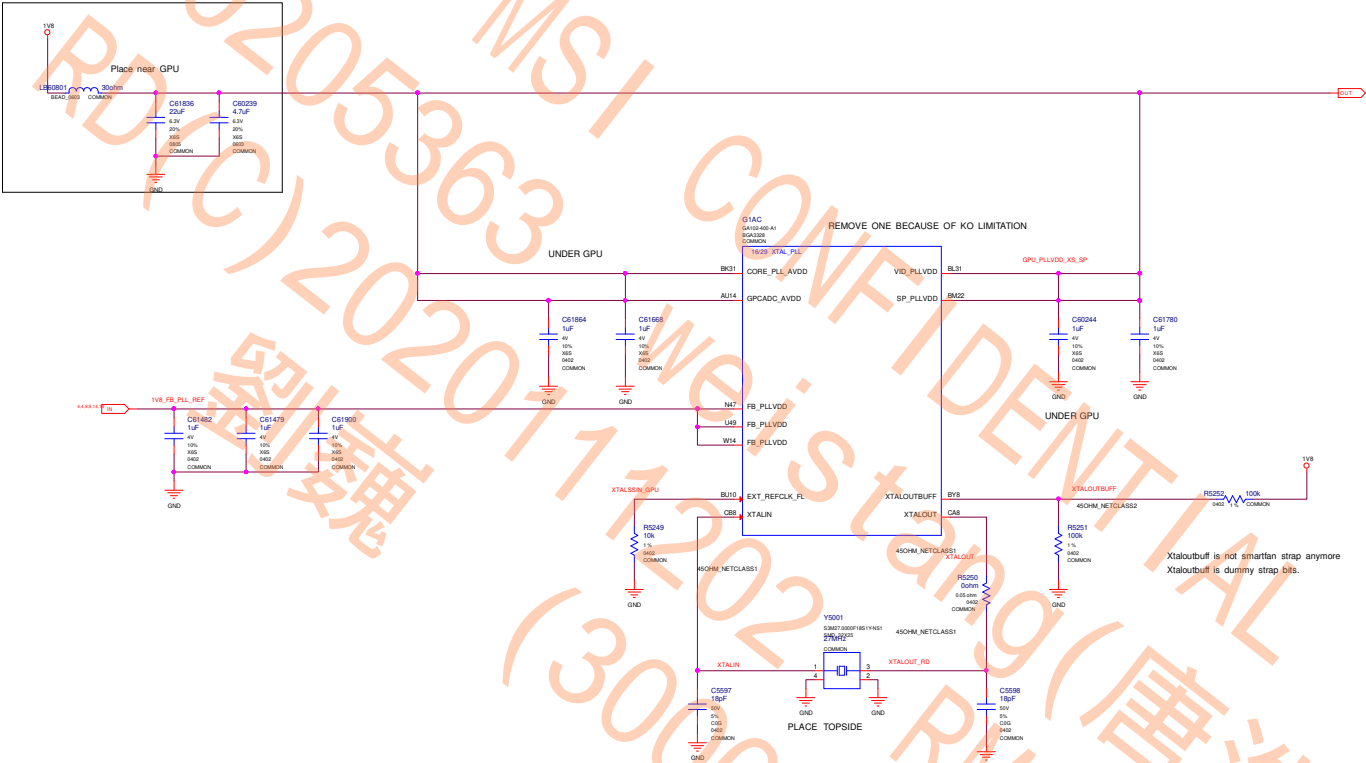
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PAGE

32 OF 79

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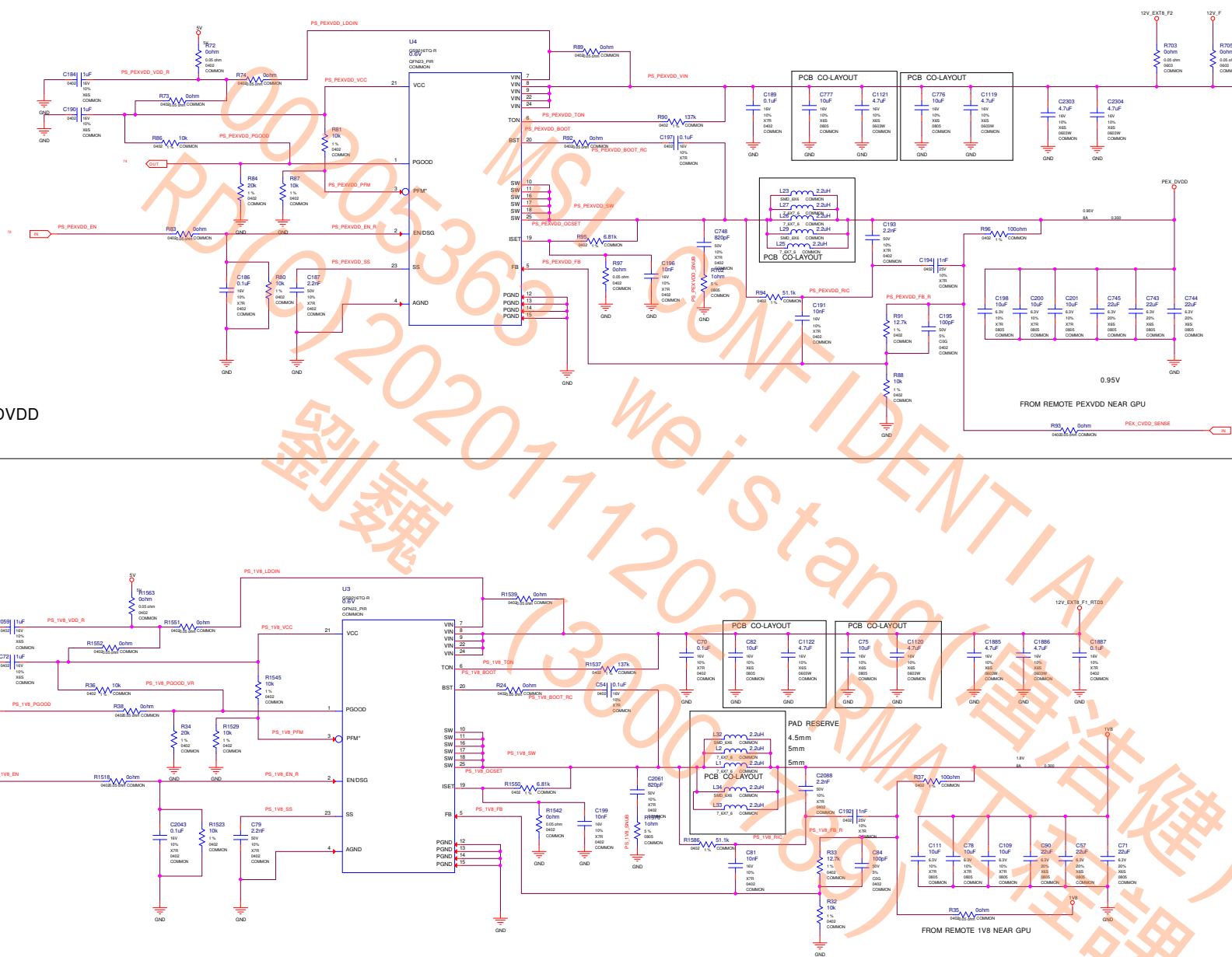


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PS: PEX_DVDD 1V8 Rail

PEX_DVDD

1V8



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NV_PN	600-1G132-BASE-300
PCB REV	PG132-A02
BCM REV	A
PAGE	35 OF 79
DATE	10 JUN 2020

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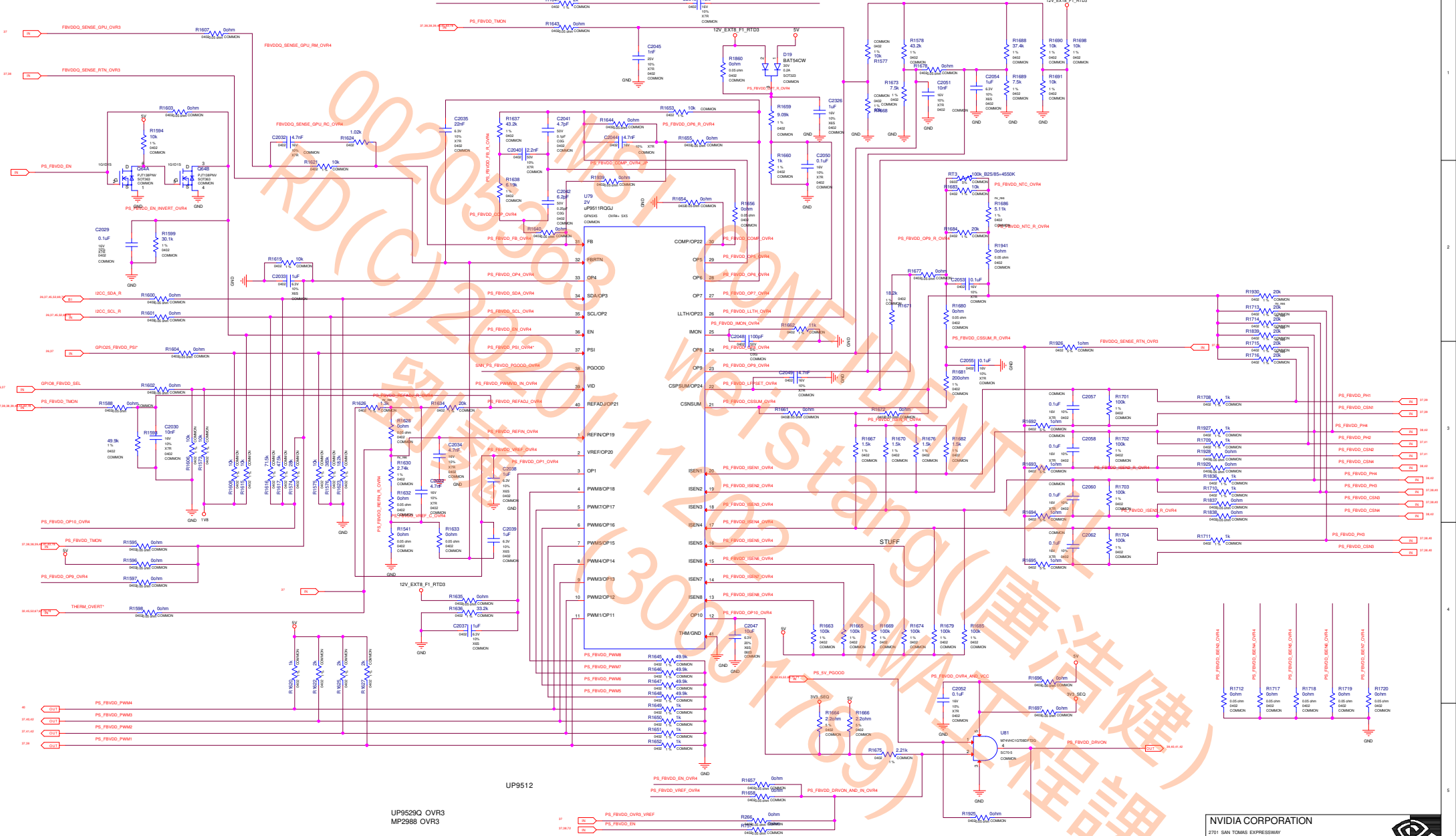
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PCB REV	PG132-A02	PAGE	36 OF 79
BCM REV	A	DATE	10-JUN-2020



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PS:FBVDDQ OVR4



UP9529Q OVR3
MP2988 OVR3

UP9512

ASSEMBLY	«ASSEMBLY _ DESCRIPTION
PAGE DETAIL	PS: FBVDDQ CWR4

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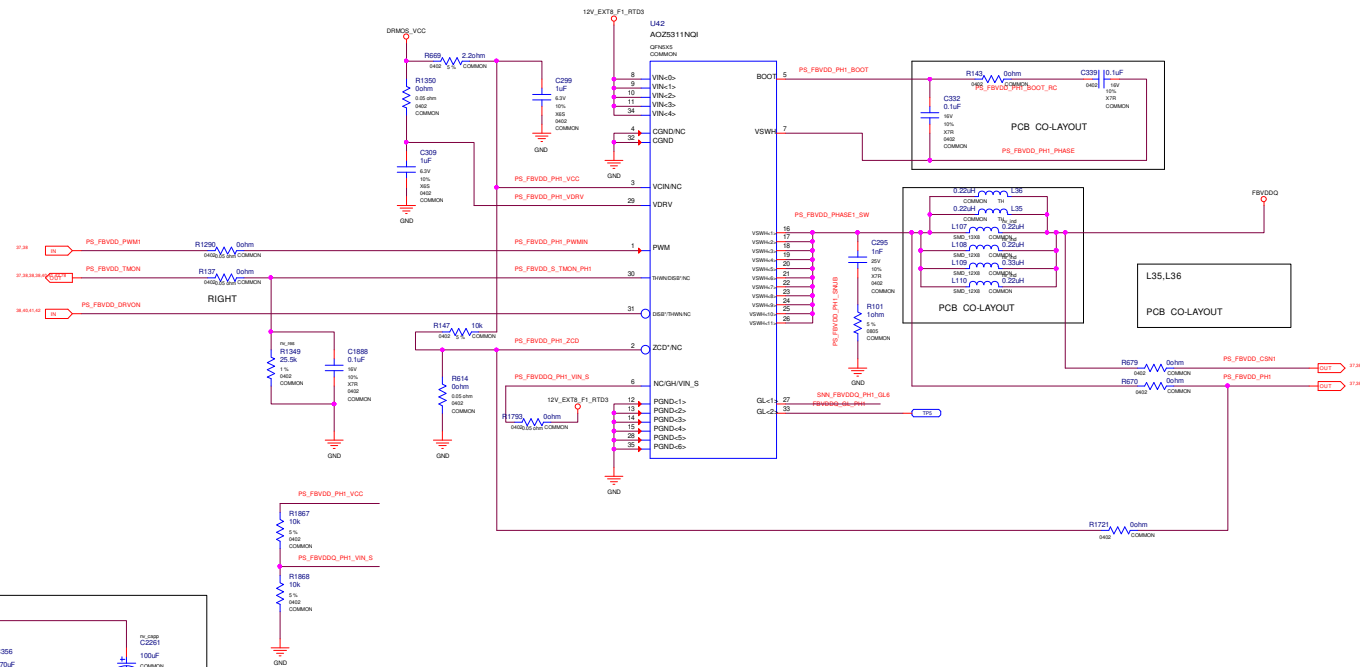
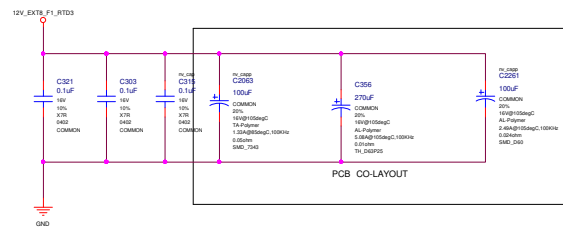
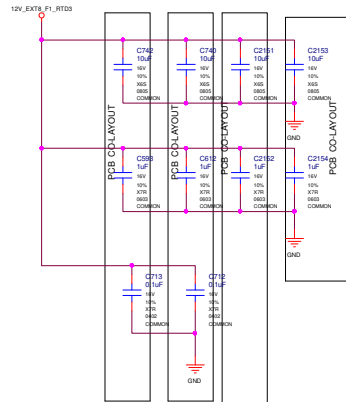


NV_PN	600-1G132-BASE-300
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PCB REV	PG132-A02	PAGE	38 OF 79
BOM REV	A	DATE	10-JUN-2020

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PS: FBVDD PH1



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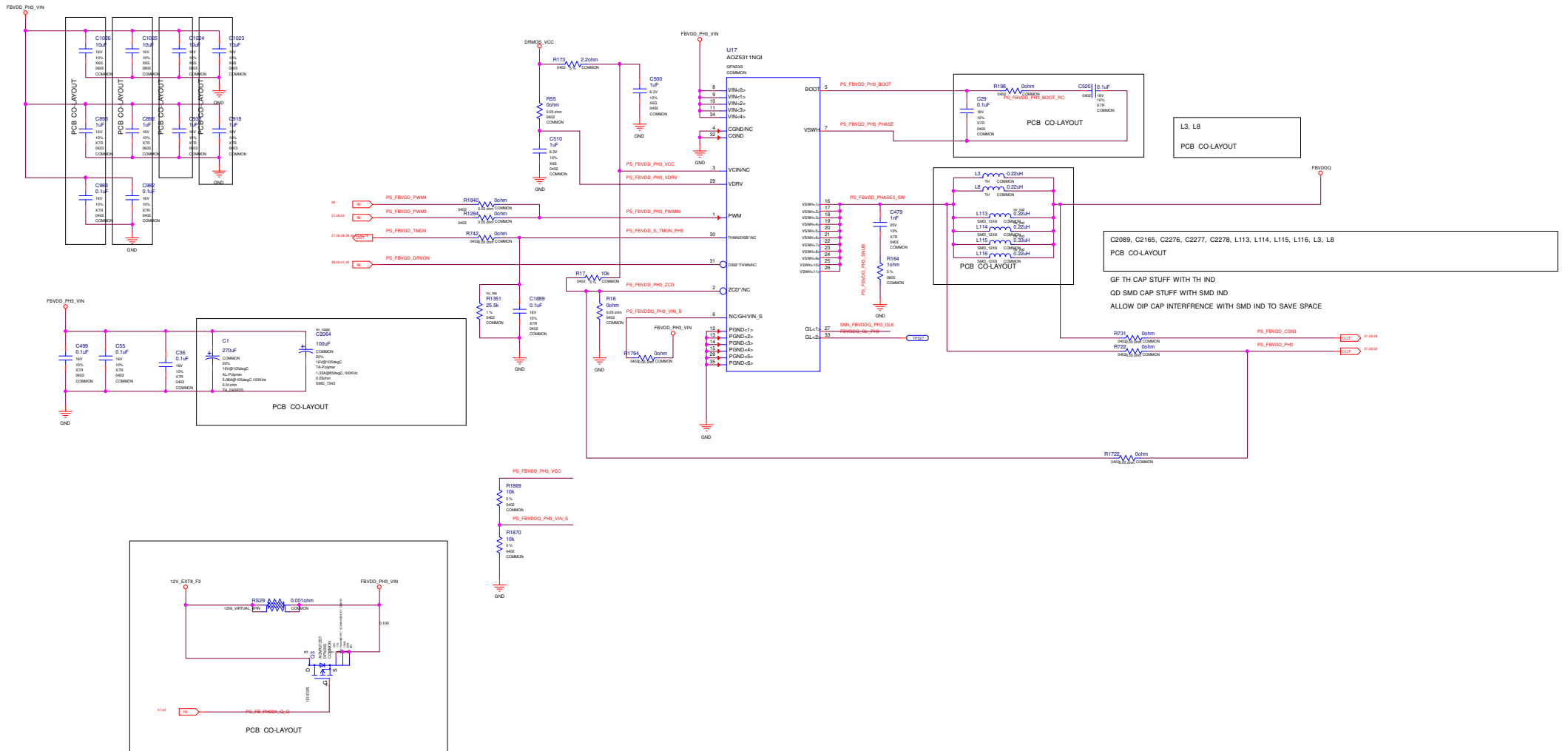


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PCB REV	PG132-A02	PAGE	39 OF 79
BOM REV	A	DATE	10-JUN-2020

BCM REV	A	DATE	10-JUN-2020
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PS: FBVDD PH3



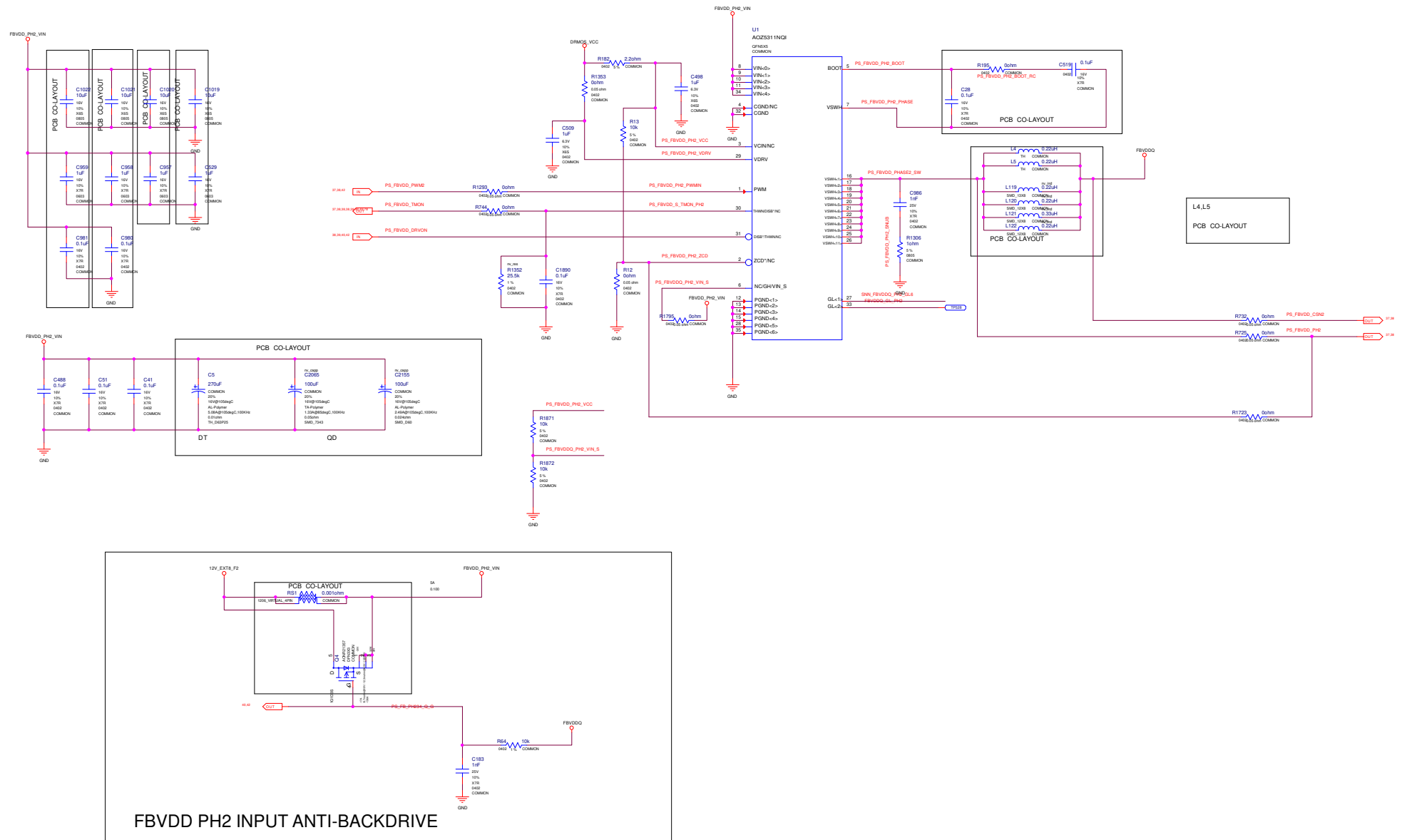
FBVDD PH3 INPUT ANTI-BACKDRIVE

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NV_PN	600-1G132-BASE-300		
PCB REV	PG132-A02	PAGE	40 OF 79
BOM REV	A	DATE	10-JUN-2020

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PS: FBVDD PH2



FBVDD PH2 INPUT ANTI-BACKDRIVE

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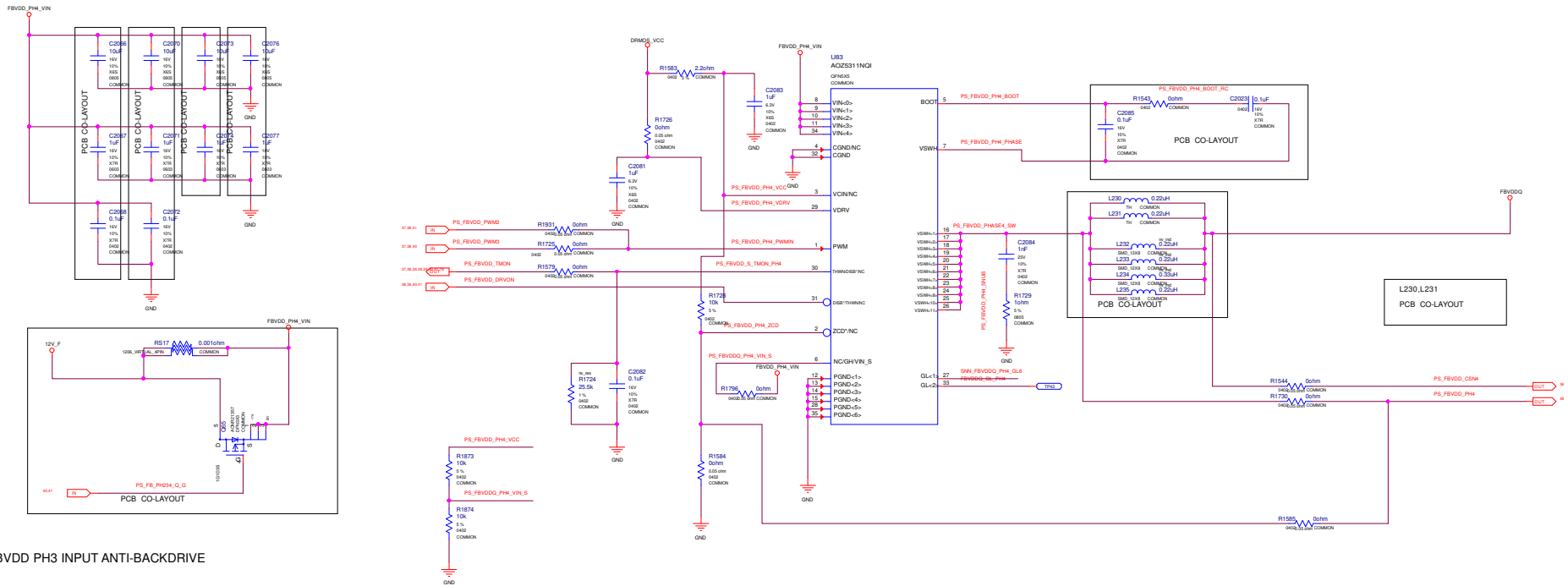
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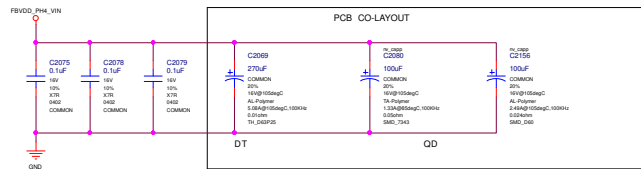
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PCB REV	PG132-A02	PAGE	41 OF 79
BCM REV	A	DATE	10-JUN-2020

PS: FBVDD PH4



FBVDD PH3 INPUT ANTI-BACKDRIVE



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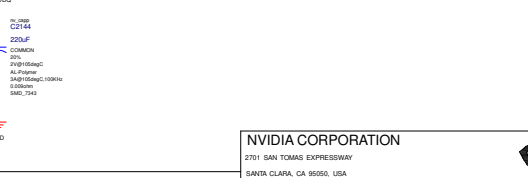
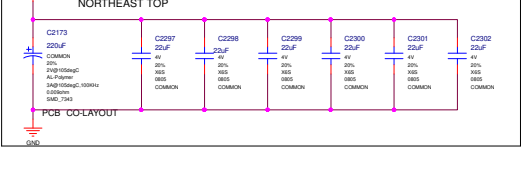
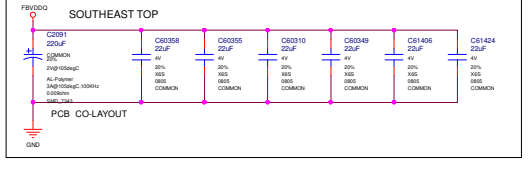
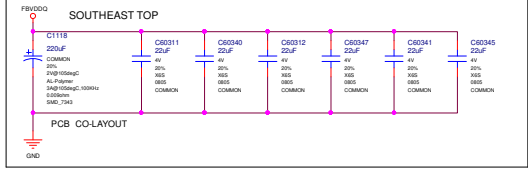
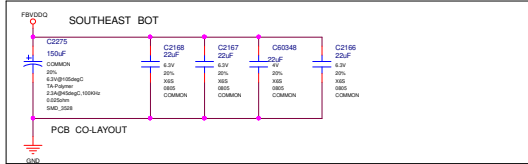
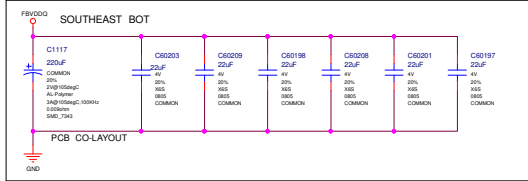
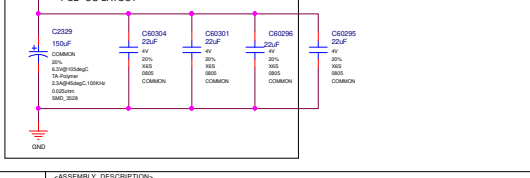
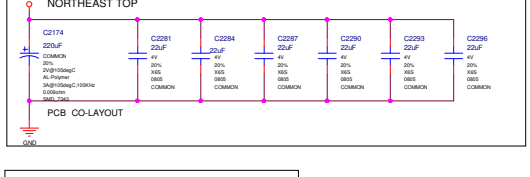
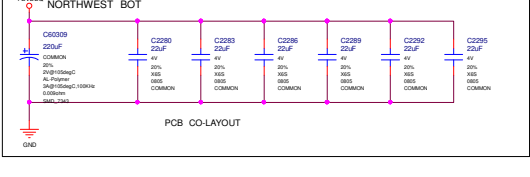
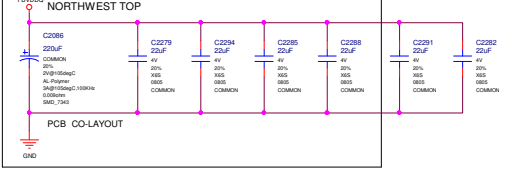
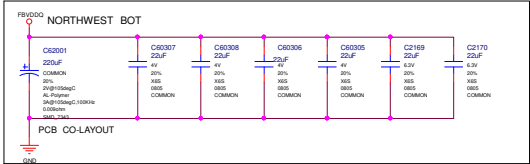
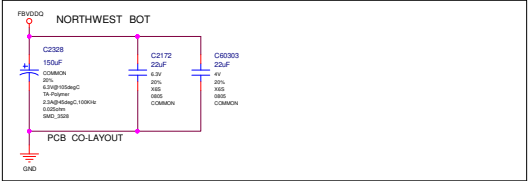
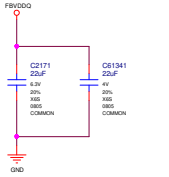
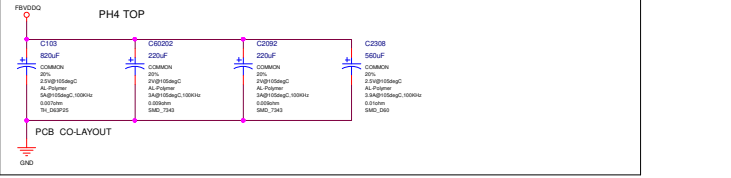
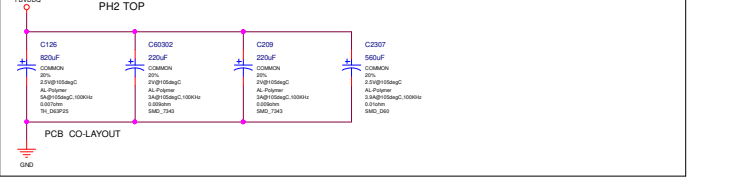
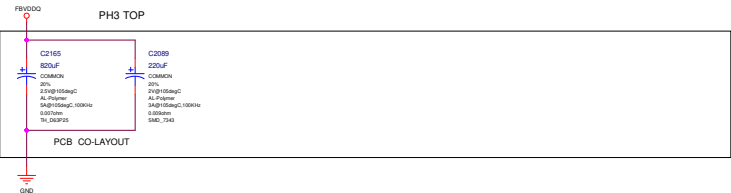


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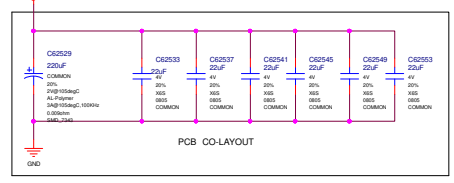
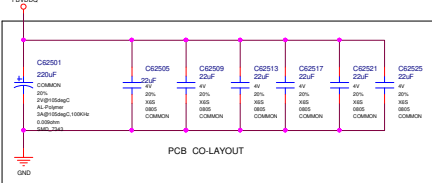
PCB REV	PG132-A02	PAGE	42 OF 79
BCM REV	A	DATE	10-JUN-2020

PS: FBVDD OUTPUT CAP

3x 820uF TH FBVDD OUTPUT BULK CAPS



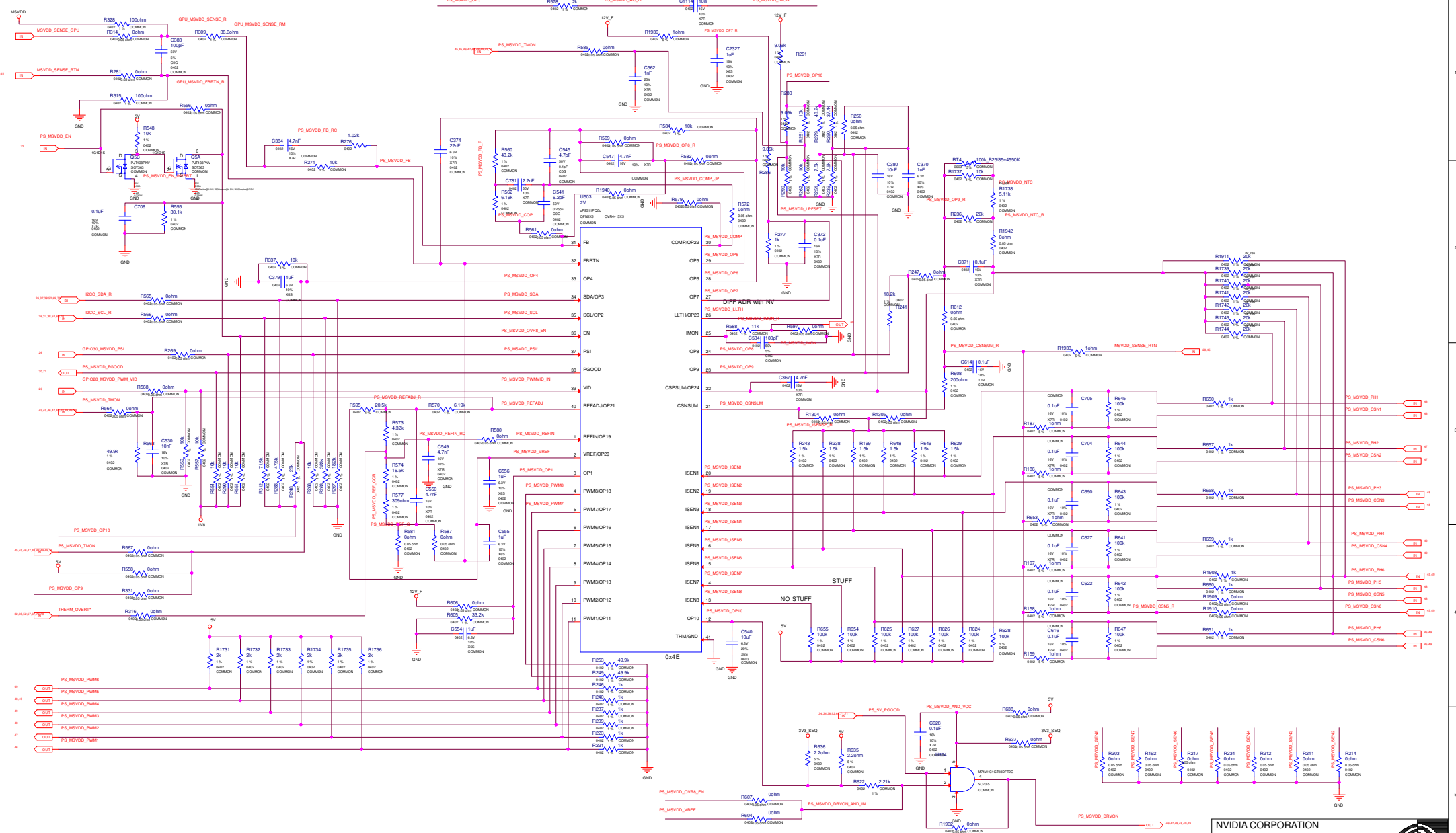
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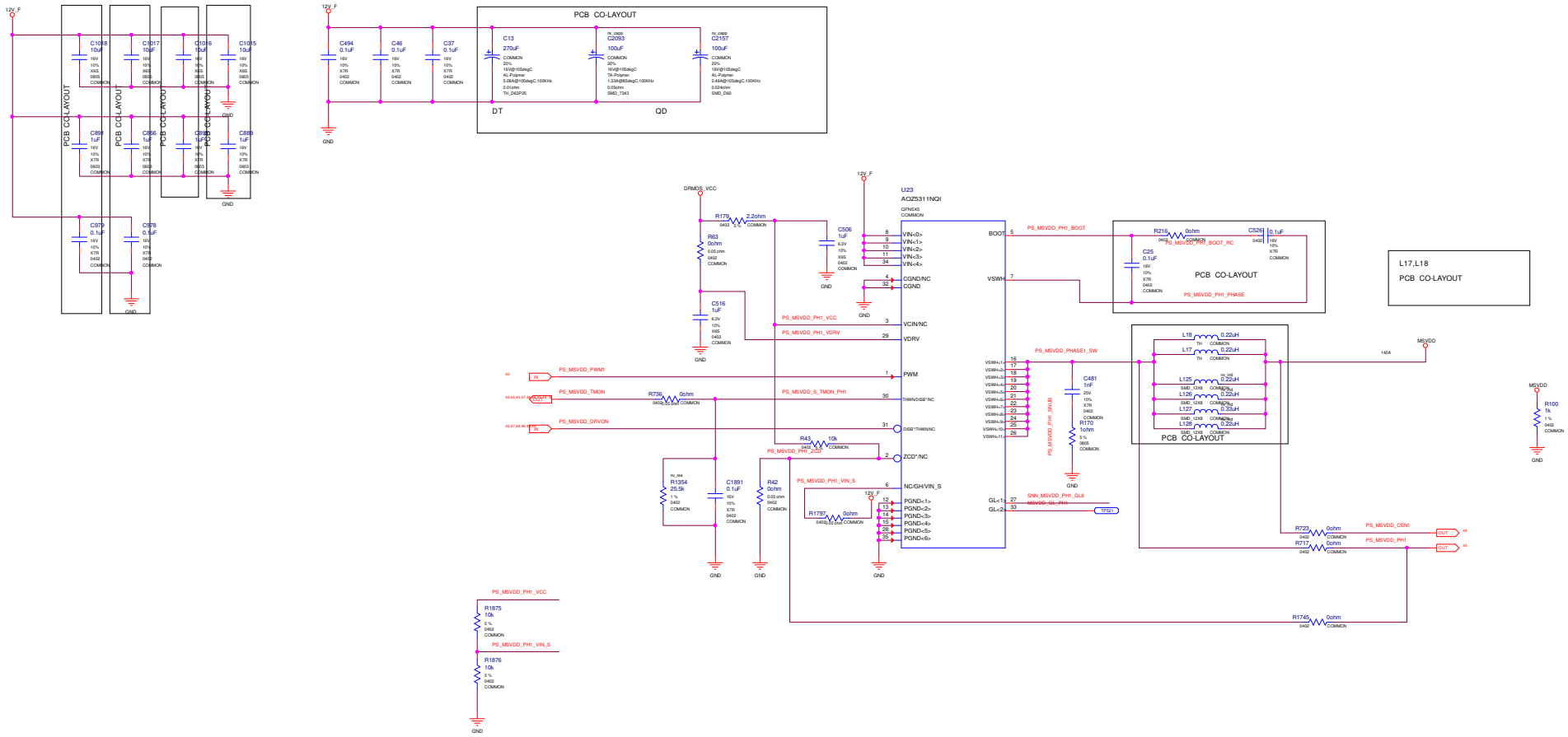
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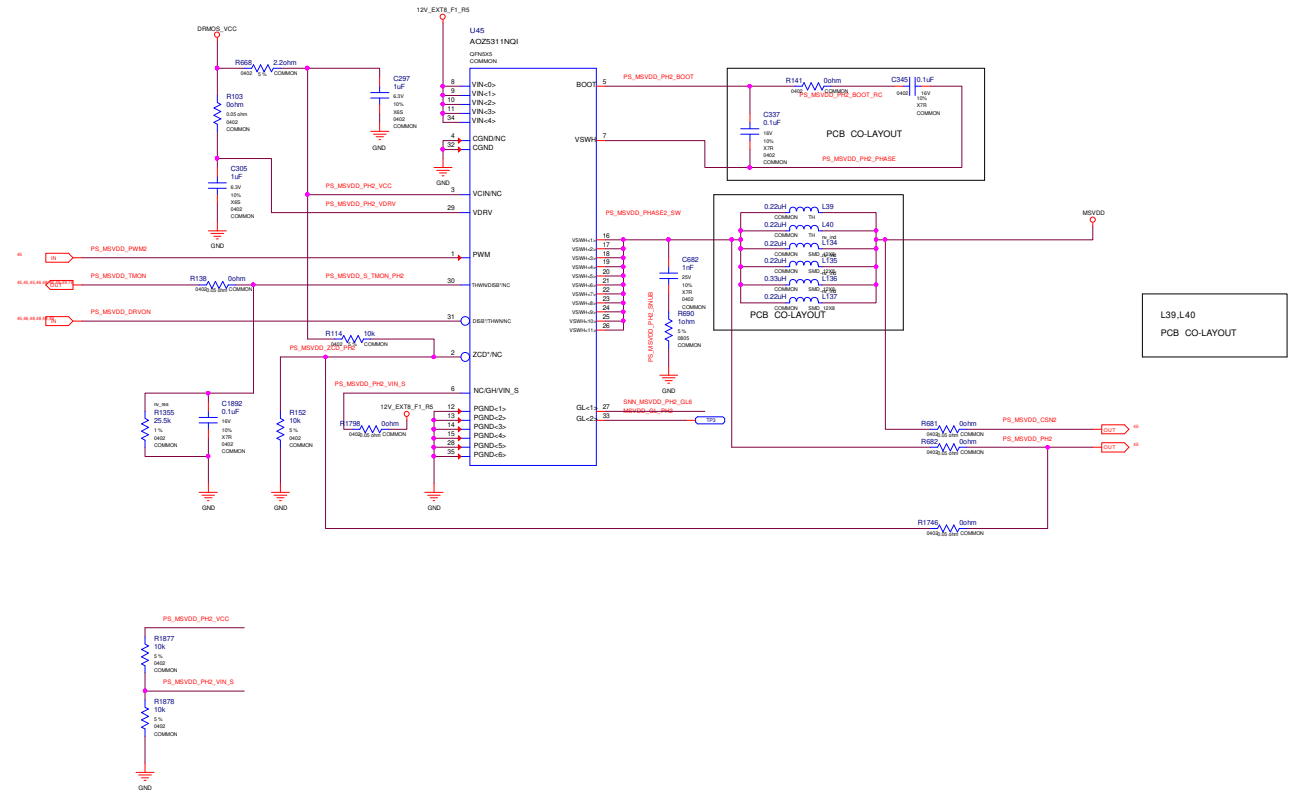
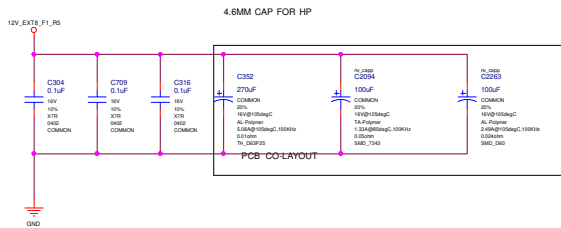
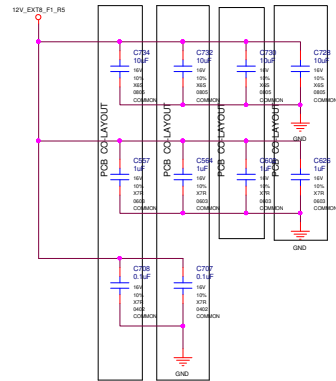
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PS: MSVDD



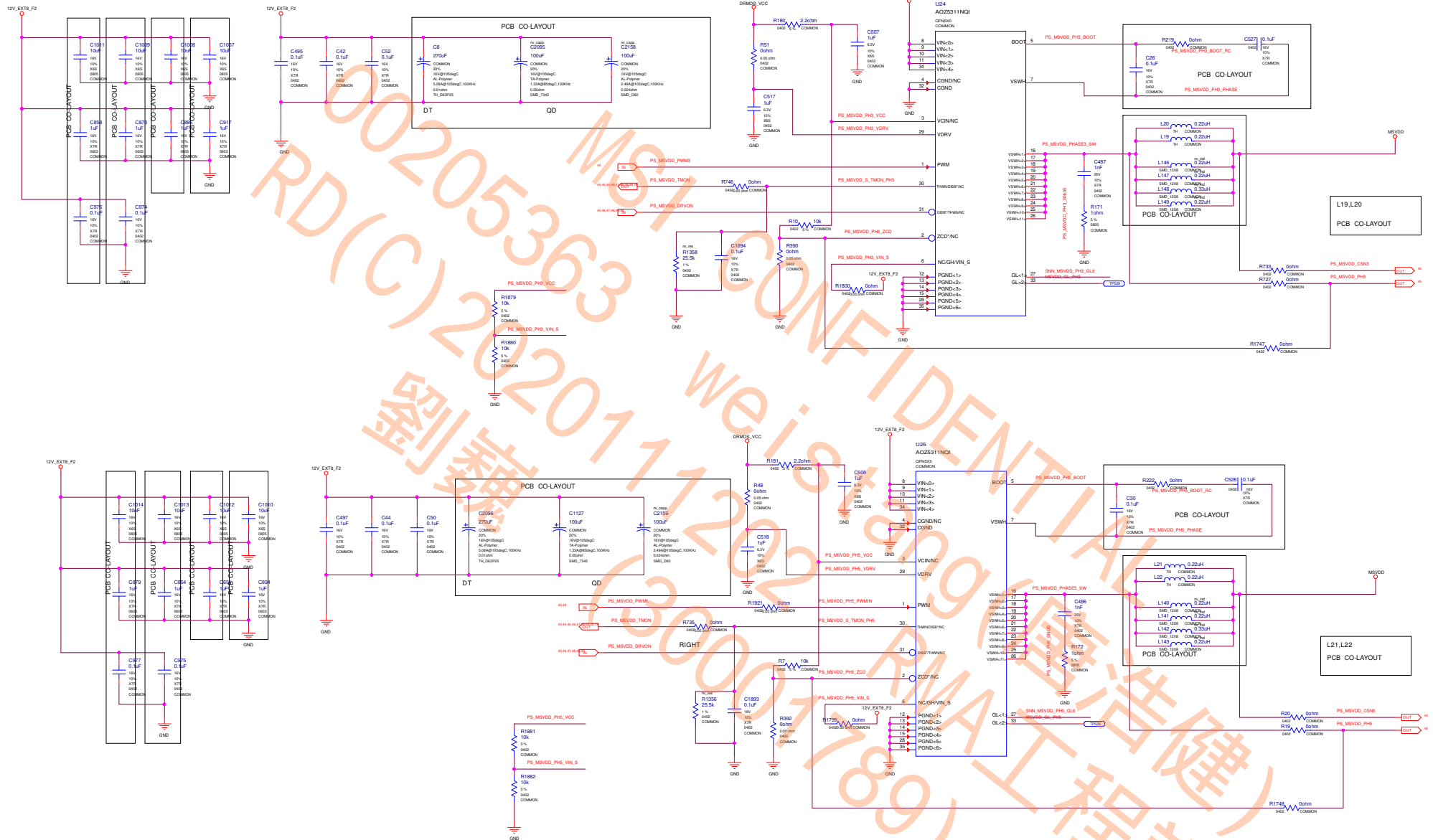
PS: MSVDD Phase 1





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Y STANDARDS.		A		47 OF 78	
		DATE		10-JUN-2020	

PS:MSVDD Phase 3, 5



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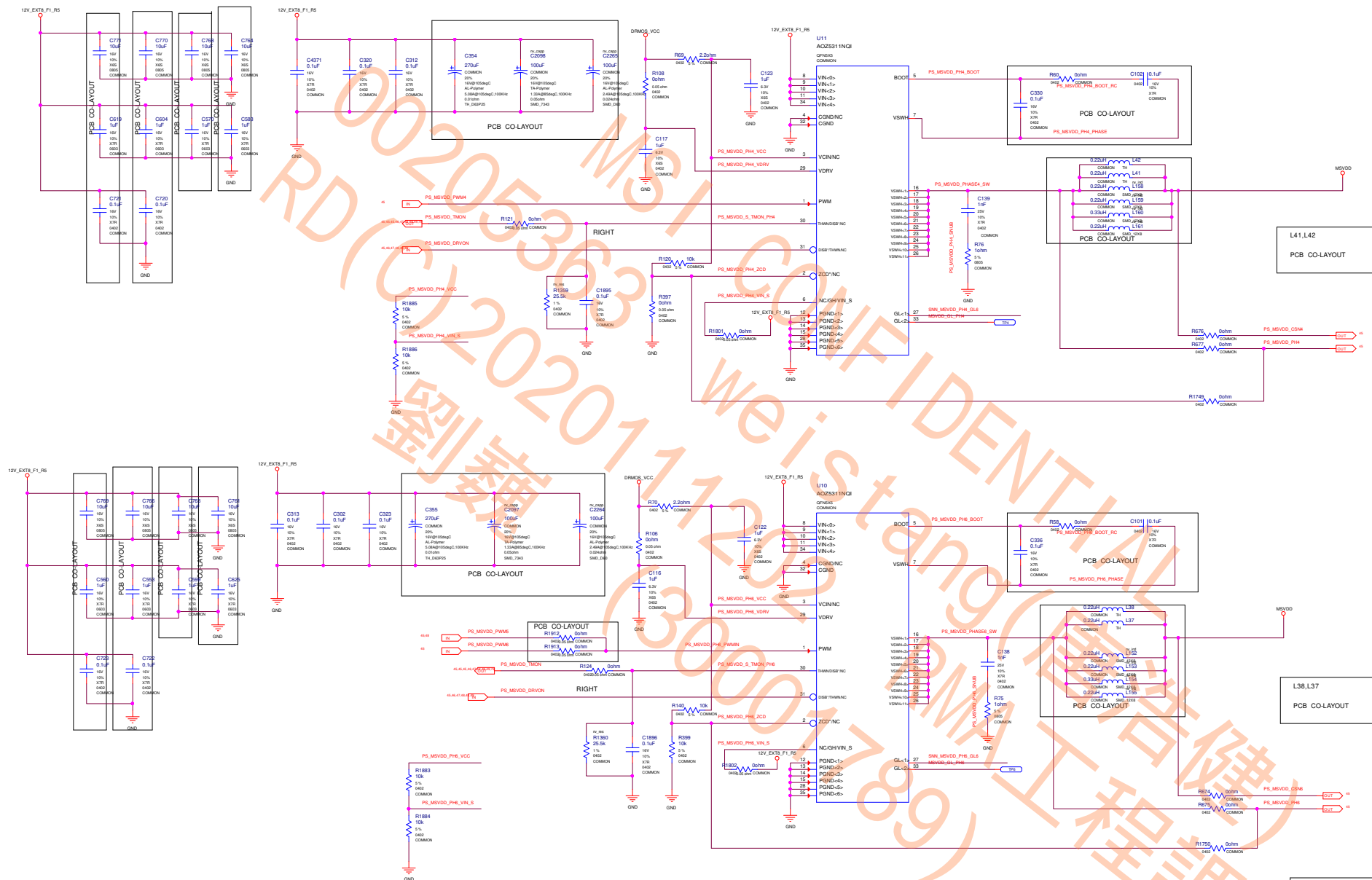


NV_PN	600-1G132-BASE-300
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PCB REV	PG132-A02	PAGE	48 OF 79
BCM REV	A	DATE	10-JUN-2020

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PS: MSVDD PH 4,6



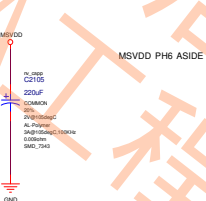
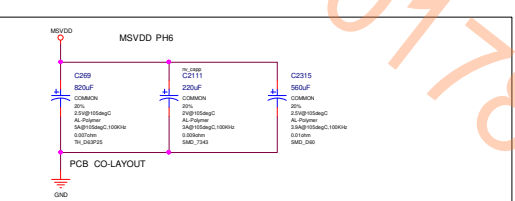
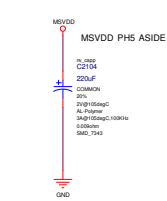
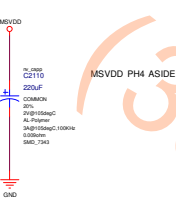
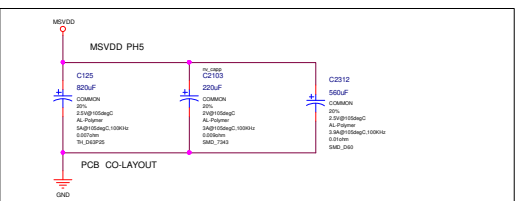
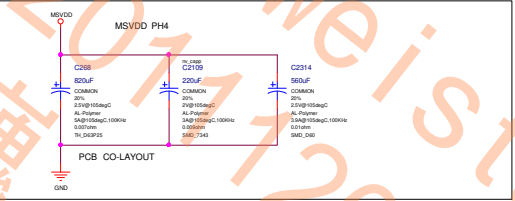
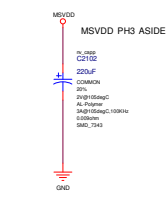
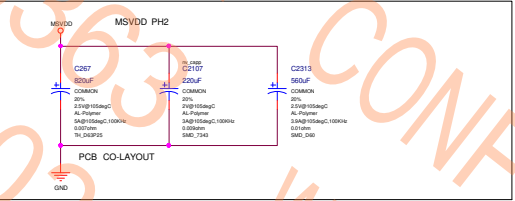
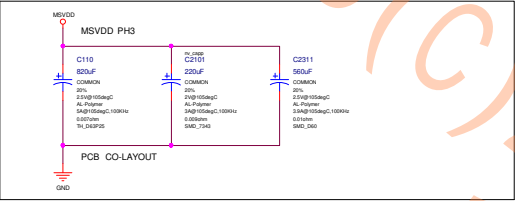
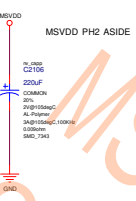
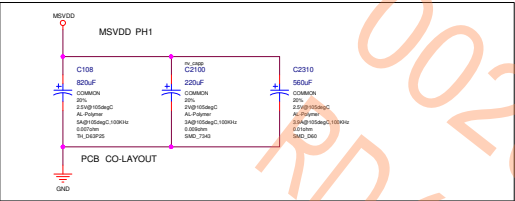
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NV_PN	600-1G132-BASE-300		
PCB REV	PG132-A02	PAGE	49 OF 79
BCM REV	A	DATE	10-JUN-2020

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PS:MSVDD OUTPUT CAP (TOP)




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Weistang (唐浩健)
RMA工程課

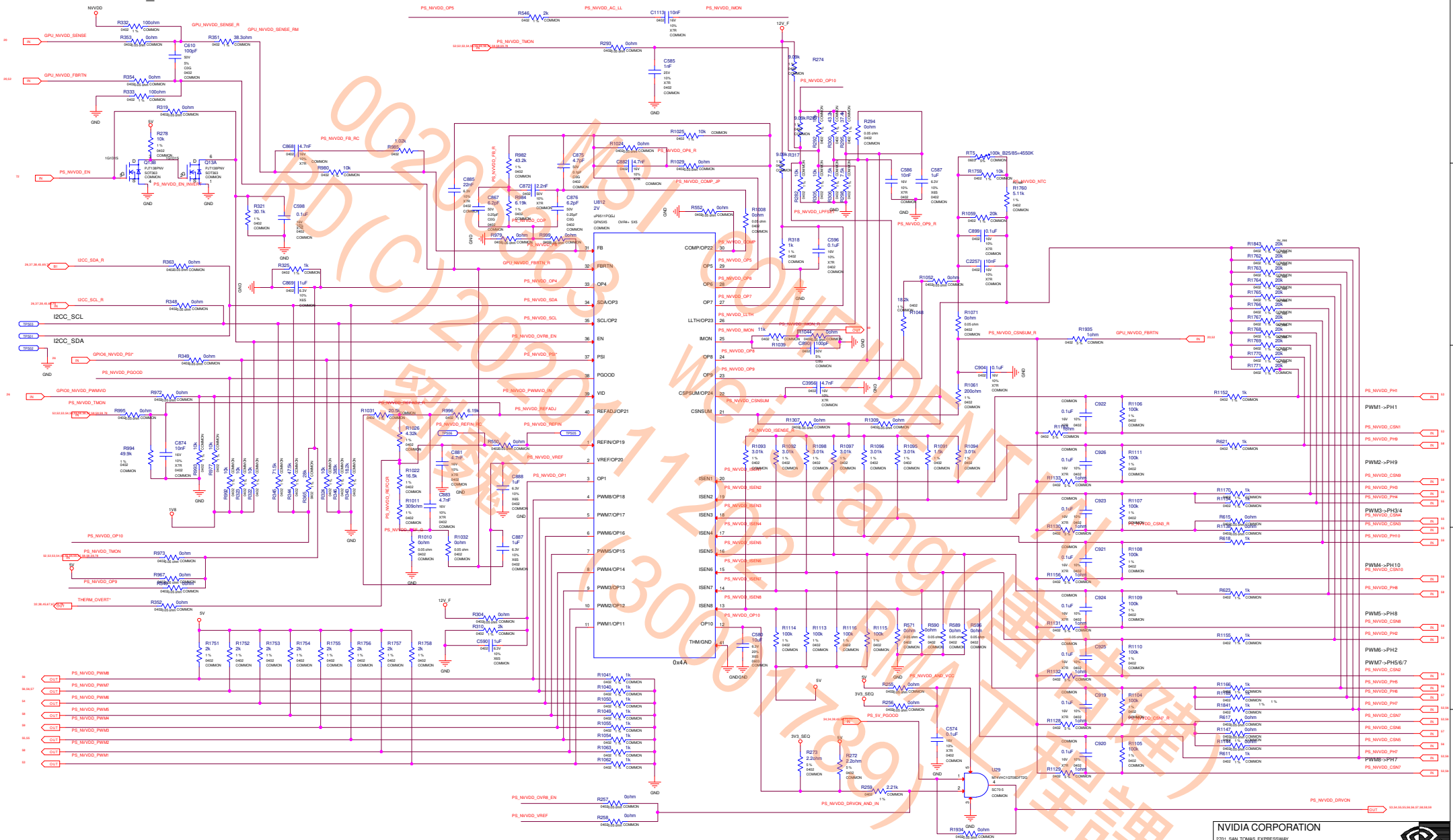
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NV_PN	600-1G132-BASE-300				
PCB REV	PG132-A02	PAGE	51 OF 79		
BCM REV	A	DATE	10-JUN-2020		

PS: NVVDD Controller_OVR8



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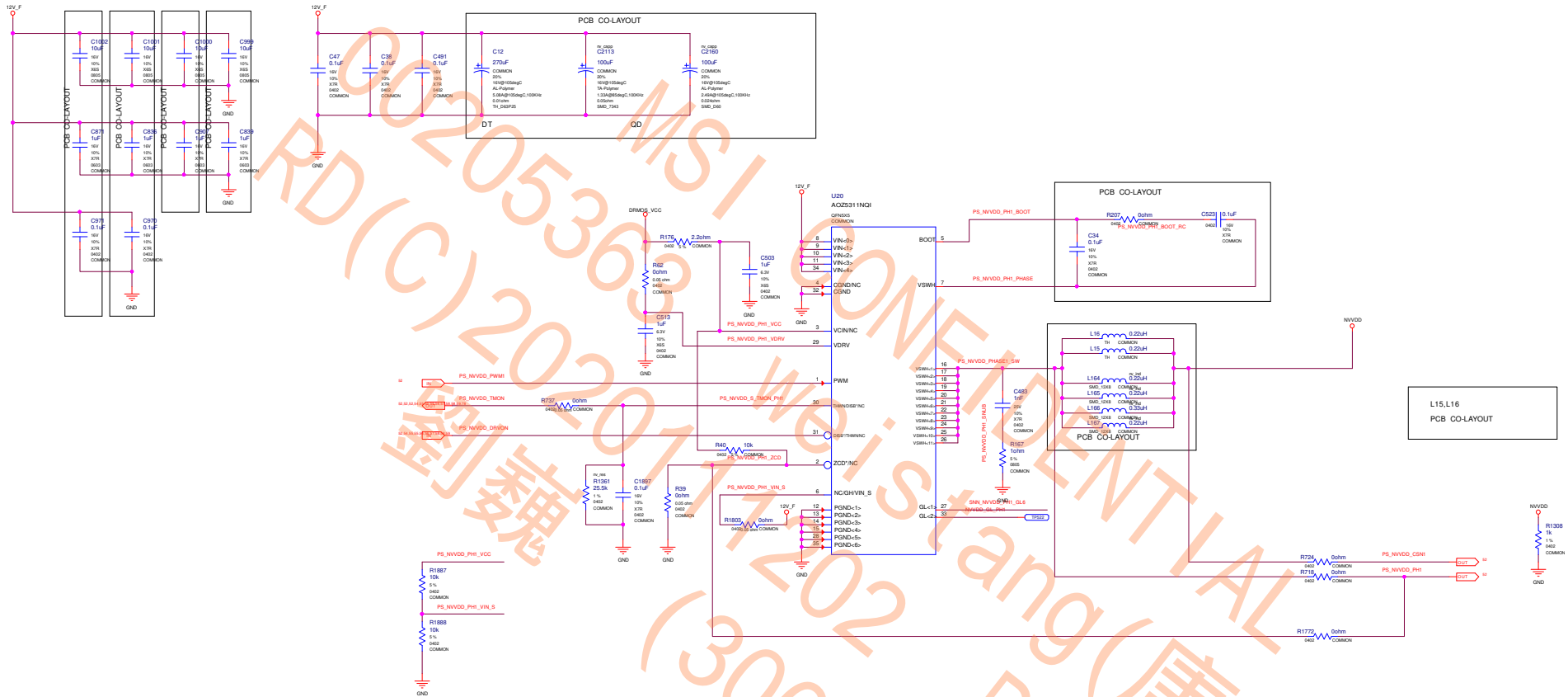
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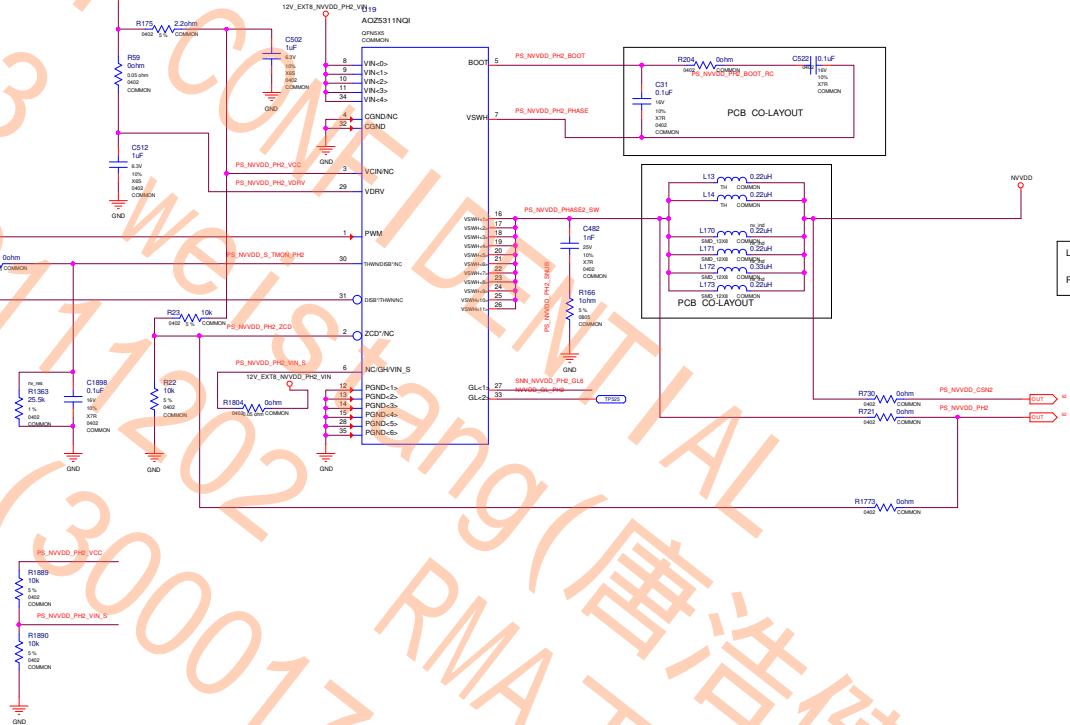
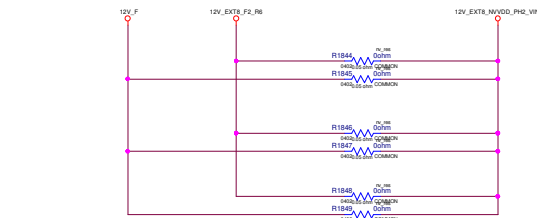
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PCB REV	PG132-A02	PAGE	52 OF 79
BCM REV	A	DATE	10-JUN-2020

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PS: NVVDD Phase 1



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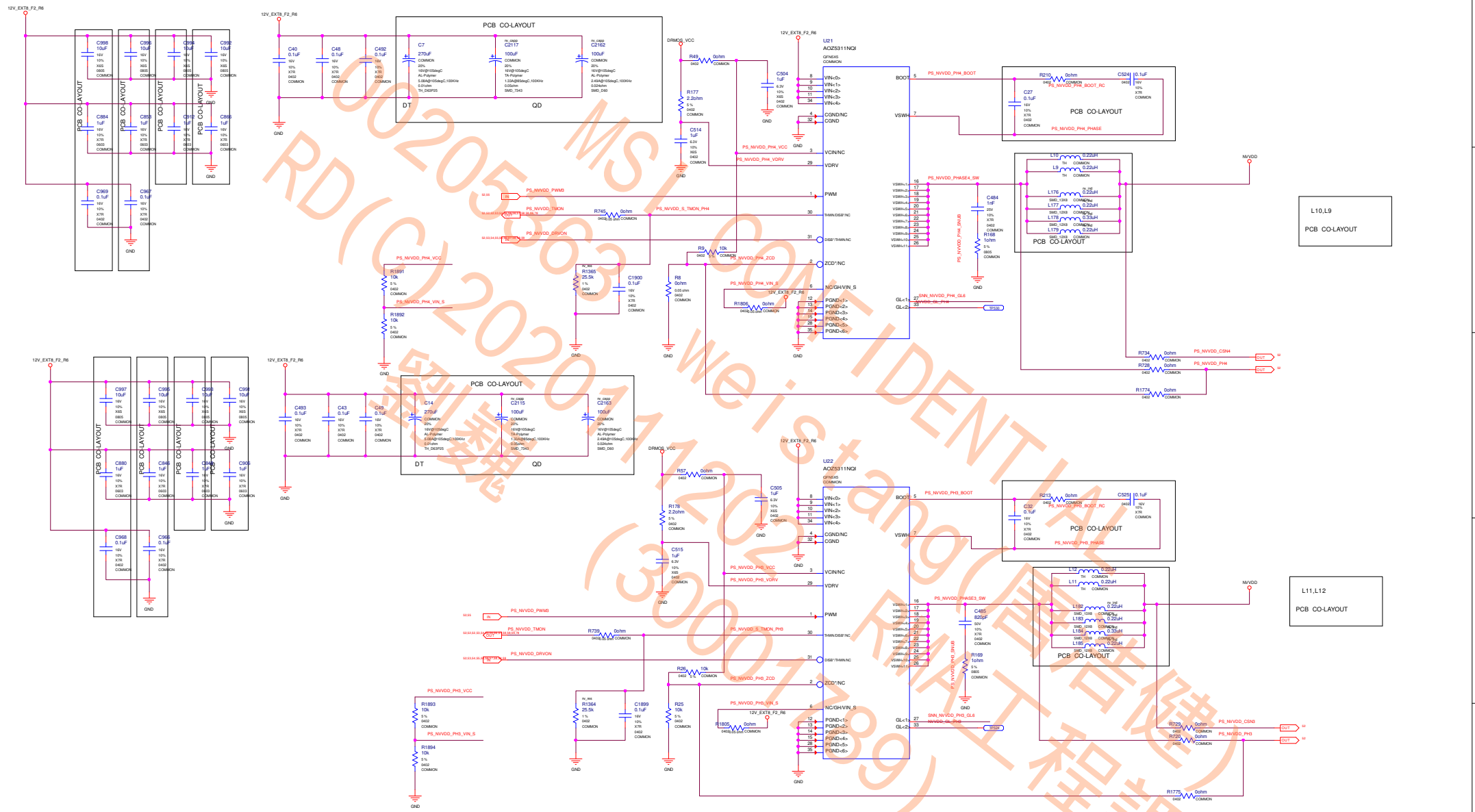
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PCB REV	PG132-A02	PAGE	54 OF 79
BCM REV	A	DATE	10-JUN-2020

PS: NVVDD Phase 3 (PWM6), PHASE 4(PWM2)



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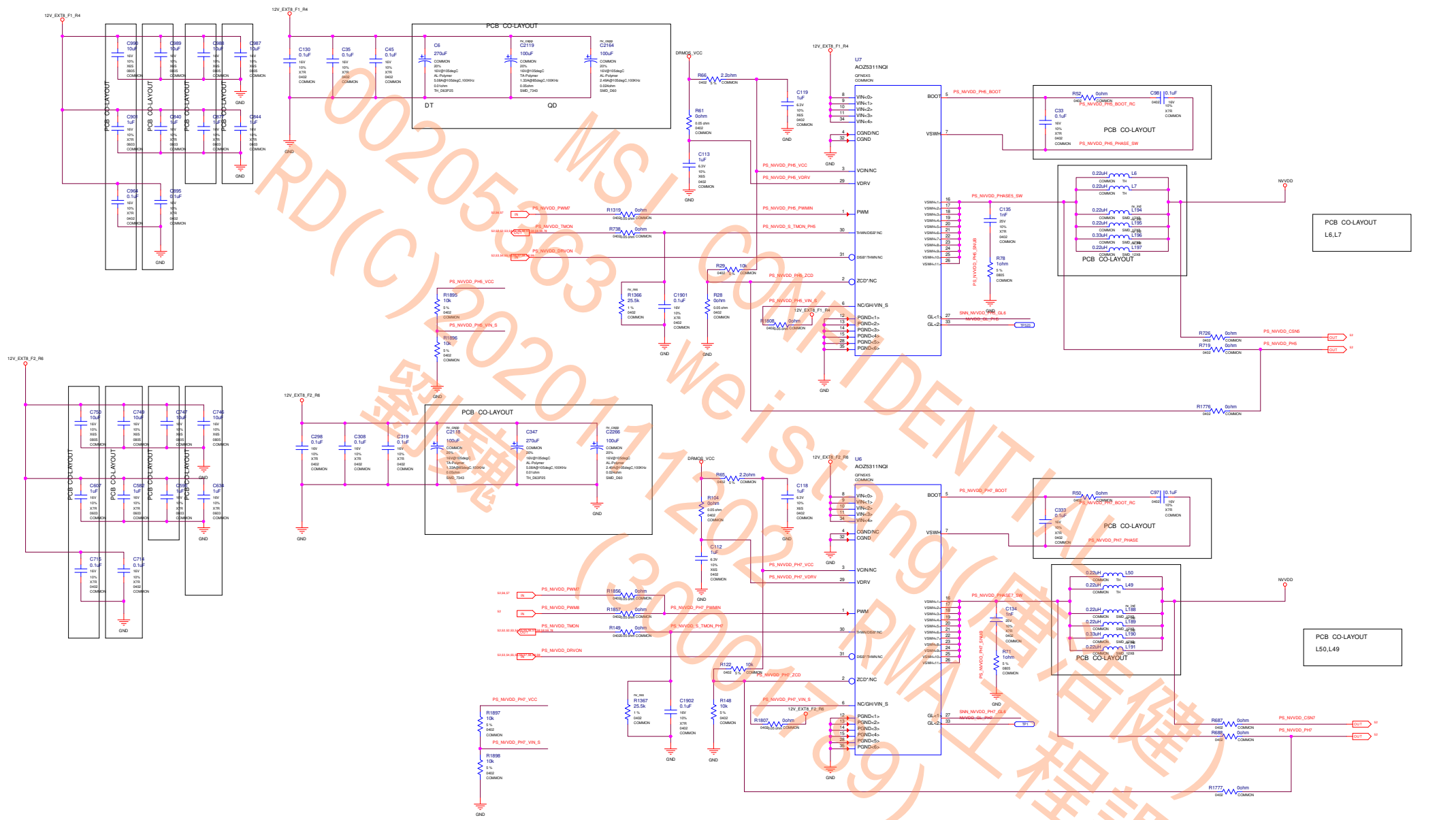


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PCB REV	PG132-A02	PAGE	55 OF 79
BCM REV	A	DATE	10-JUN-2020

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PS: NVVDD PH 5(PWM2), PH7(PWM3)



ASSEMBLY		-ASSEMBLY_DESCRIPTION-	
PAGE: DETAIL		PS: NVVDD PH5(PWM2) and PH7(PWM3)	

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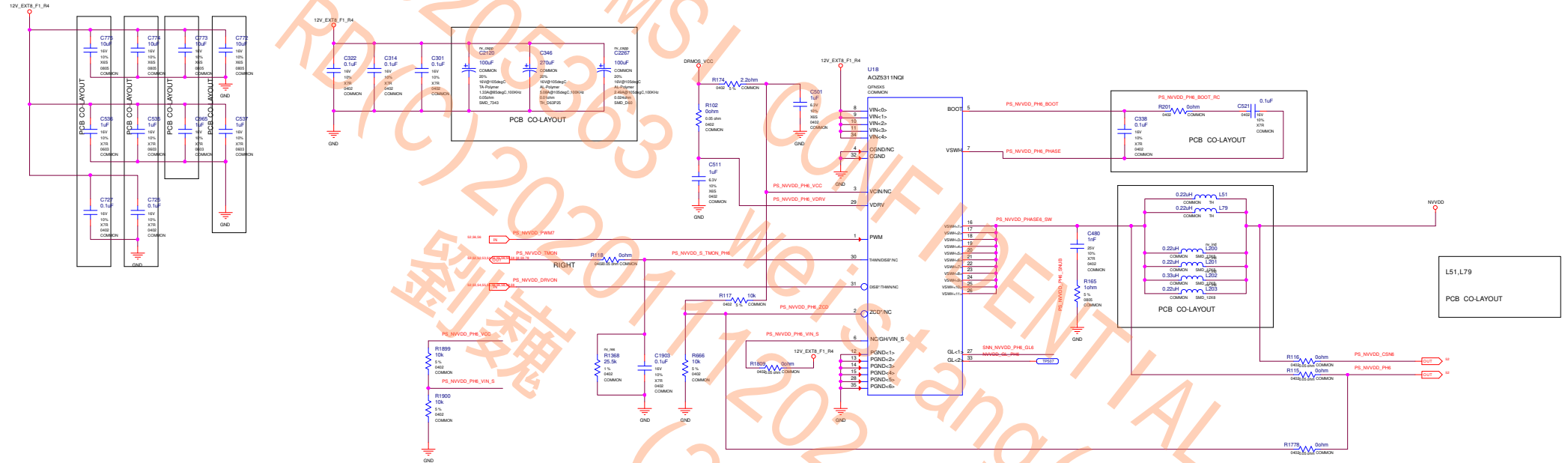
56 OF 79

DATE

10 JUN 2020




PS: NVVDD Phase 6(PWM7)



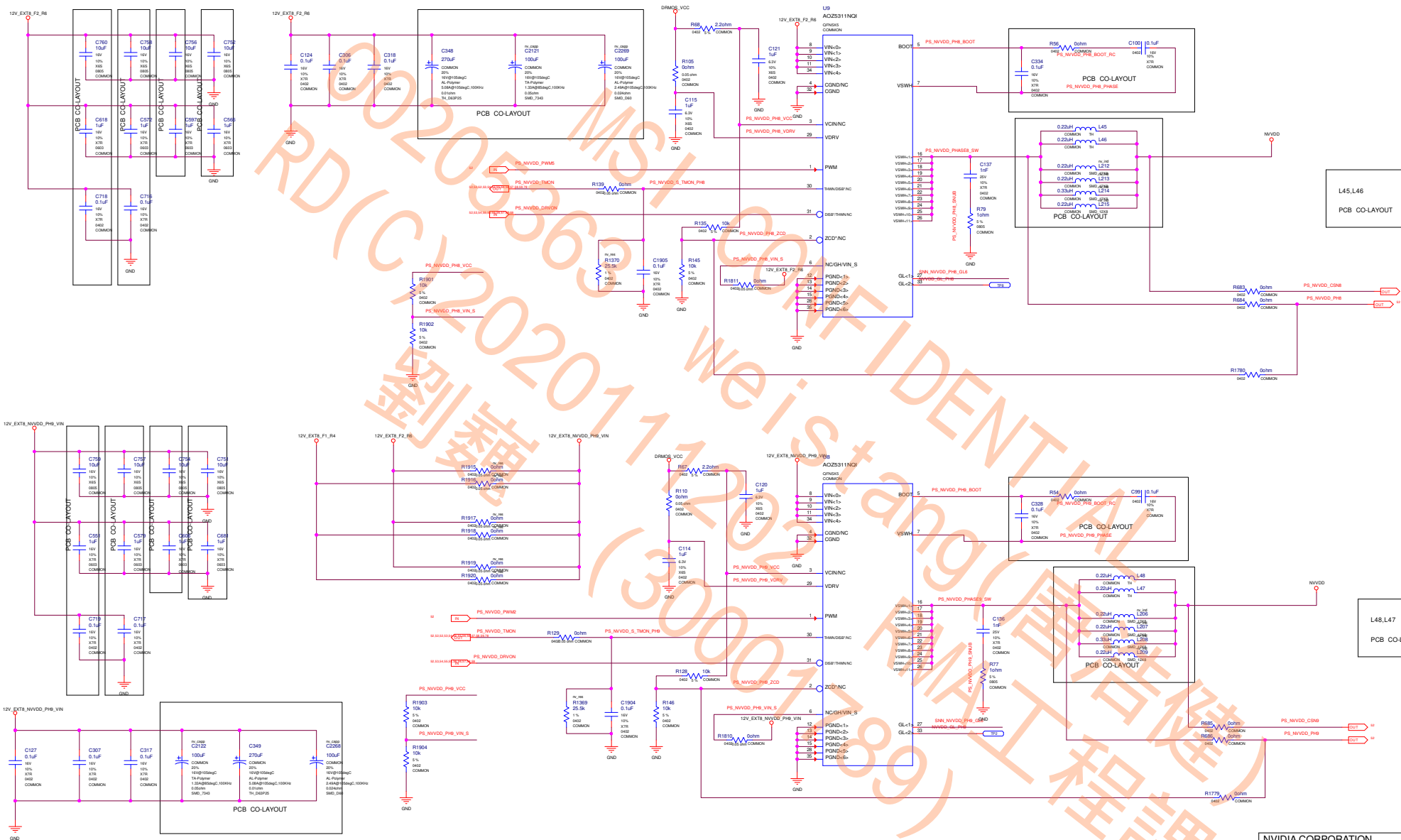
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ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	P5: NVDD PH5 (PWM7)

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NV_PN 600-1G132-BASE-300			
PCB REV	BG132-A02	PAGE	57 OF 79
PGM REV	A	DATE	10-JUN-2020



PS: NVVDD PH 8 (PWM5), PH 9(PWM8)



ASSEMBLY	«ASSEMBLY_DESCRIPTION»
PAGE DETAIL	PS: NVDD PH0(PWM5) and PH0(PW

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PGD 35M	PG132-A0
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FCB REV	FCB REV
BCM REV	A

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PCB CO-LAYOUT
C131, C132, C133, C140, C141, C142, C2106, C2107, C2133, C2134, C2135, C2137, C264, C265, C266, C267, C61, C64, C65, C66, C67, C68, C69, C77, C80, C83, C88


PCB CO-LAYOUT
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C163, C164, C166, C167, C2087, C2105, C2109, C2110, C2111, C224, C225, C261, C268, C269, C60354, C61428, C62, C63, C89, C91, C96
PCB CO-LAYOUT

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NV_PN	600-1G132-BASE-300		
PCB REV	PG132-A02	PAGE	50 OF 79
BCM REV	A	DATE	10-JUN-2020

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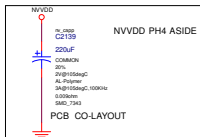
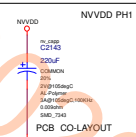
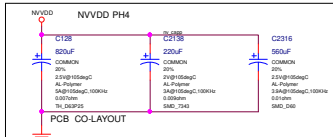
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NV_PN	600-1G132-BASE-300		
PCB REV	PG132-A02	PAGE	51 OF 79
BCM REV	A	DATE	10-JUN-2020

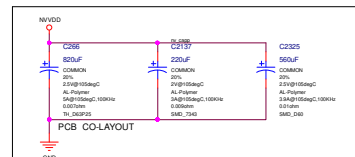
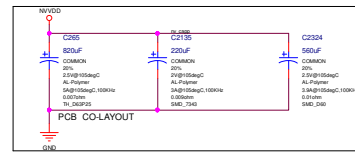
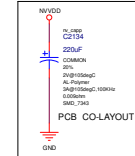
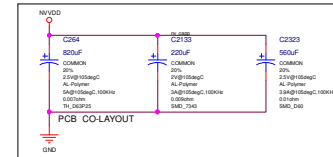
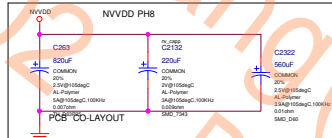
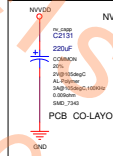
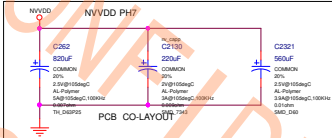
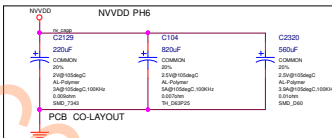
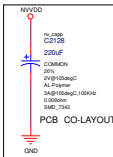
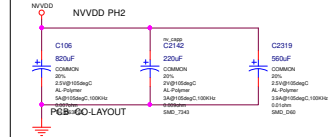
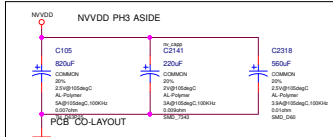
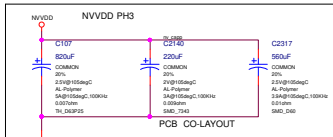


PS: NVVDD OUTPUT CAP(TOP)



NVVDD PH

REMOVE



PCB CO-LAYOUT

ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	PS: NWC0 OUTPUT CAP(TOP)

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PCB REV	PG132-A02	PAGE	62 OF 79
BCM REV	A	DATE	10-JUN-2020


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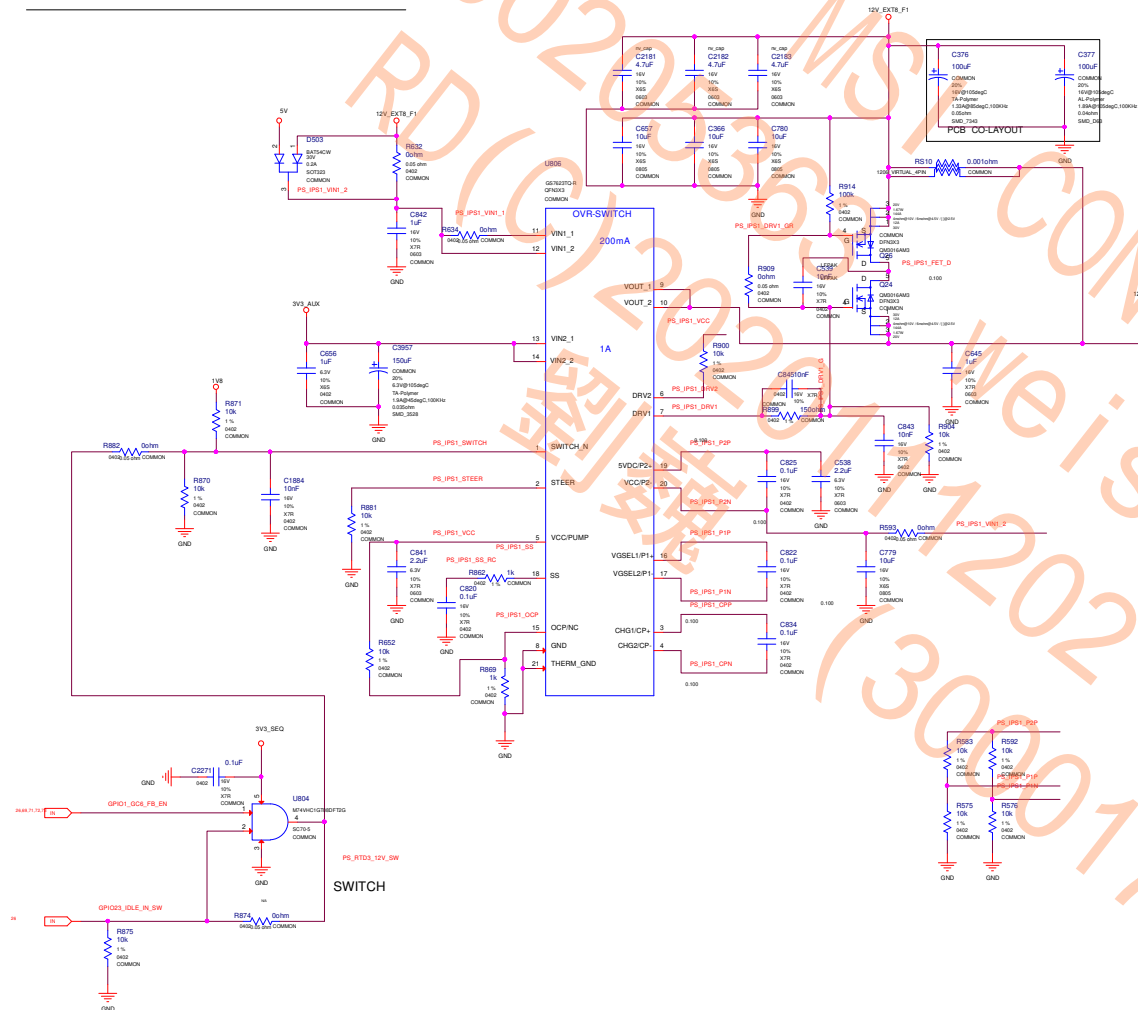
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NV_PN	600-1G132-BASE-300		
PCB REV	PG132-A02	PAGE	83 OF 79
BCM REV	A	DATE	10-JUN-2020

PS: INPUT SWITCH RTD3

AND GATE LOGIC FOR P-BOARD

GPIO1	GPIO23	SWITCH	VOUT
0	0	0	12V_F
0	1	0	12V_F
1	0	0	12V_F
1	1	1	3V3A



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ASSEMBLY	«ASSEMBLY_DESCRIPTION»
PAGE DETAIL	PS: INPUT SWITCH RTD3

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PCB REV	PG132-A02	PAGE	64 OF 79
BCM REV	A	DATE	10-JUN-2020

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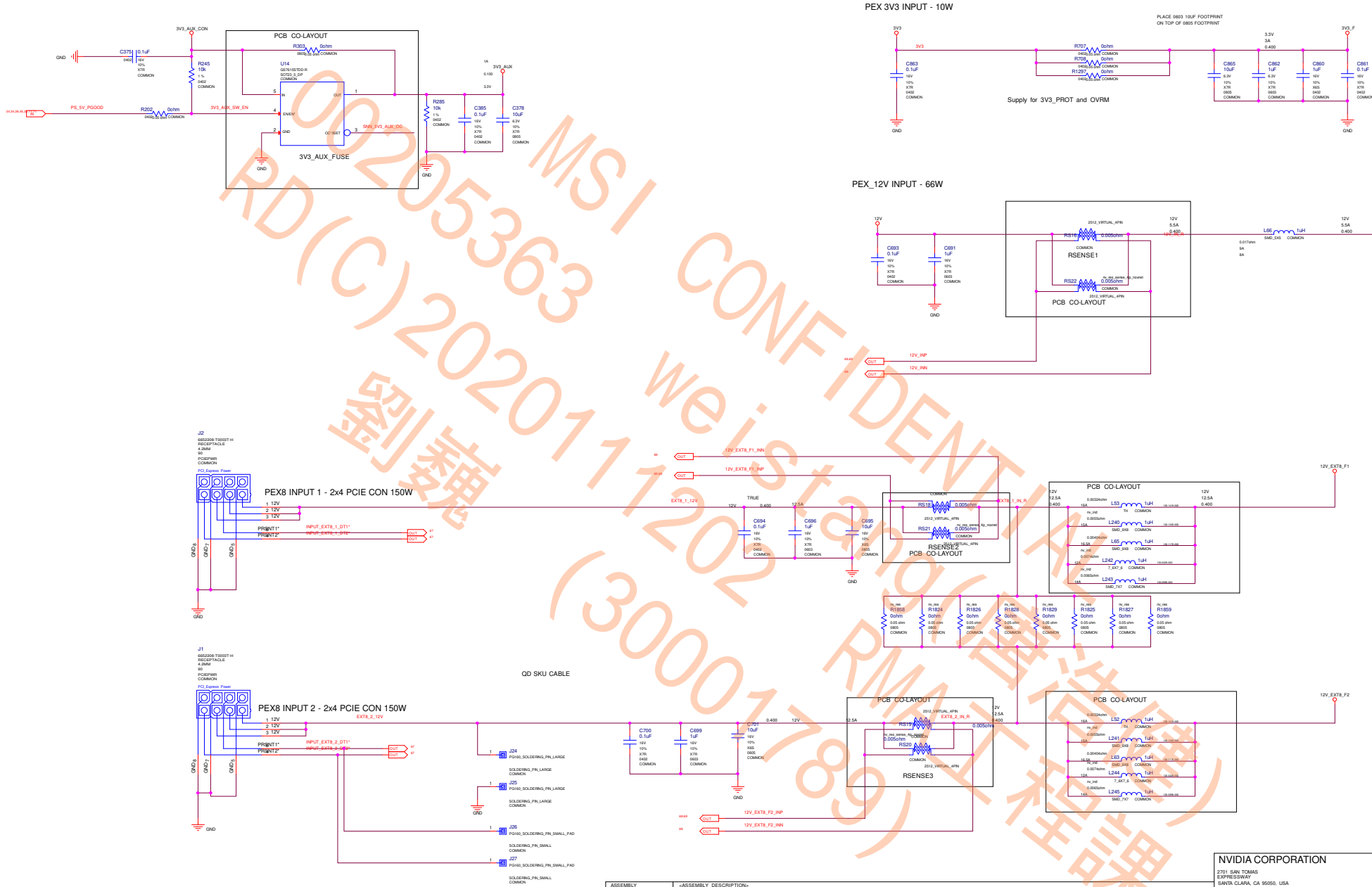
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PCB REV	PG132-A02	PAGE	85 OF 79
BCM REV	A	DATE	10-JUN-2020



PS: Inputs, Filtering, and Monitoring



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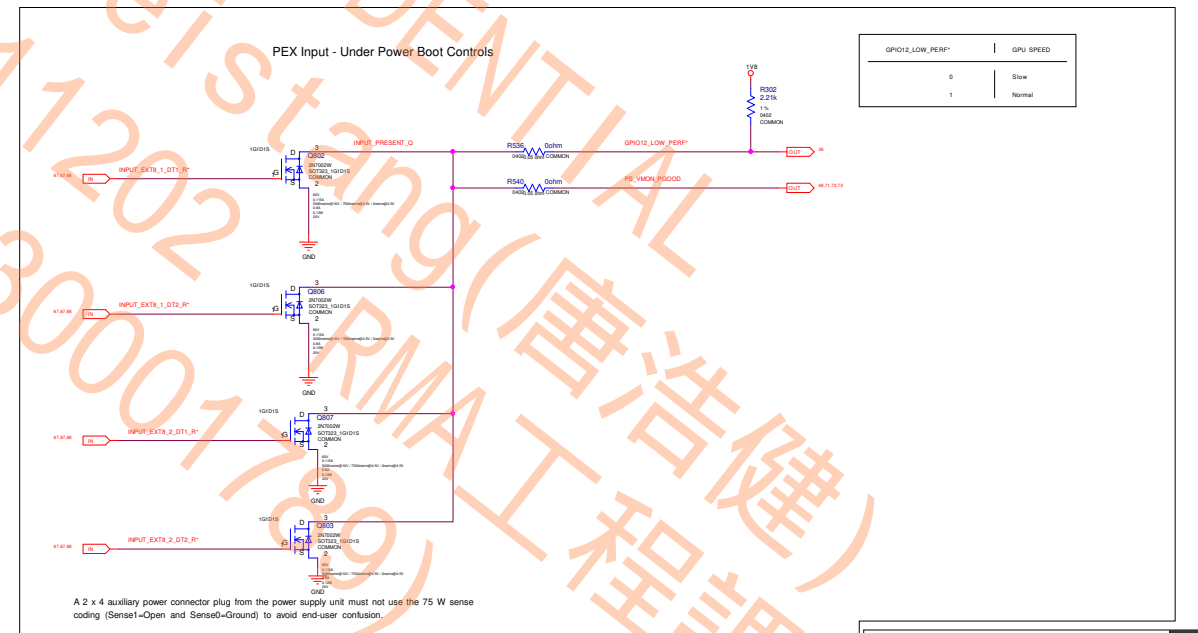
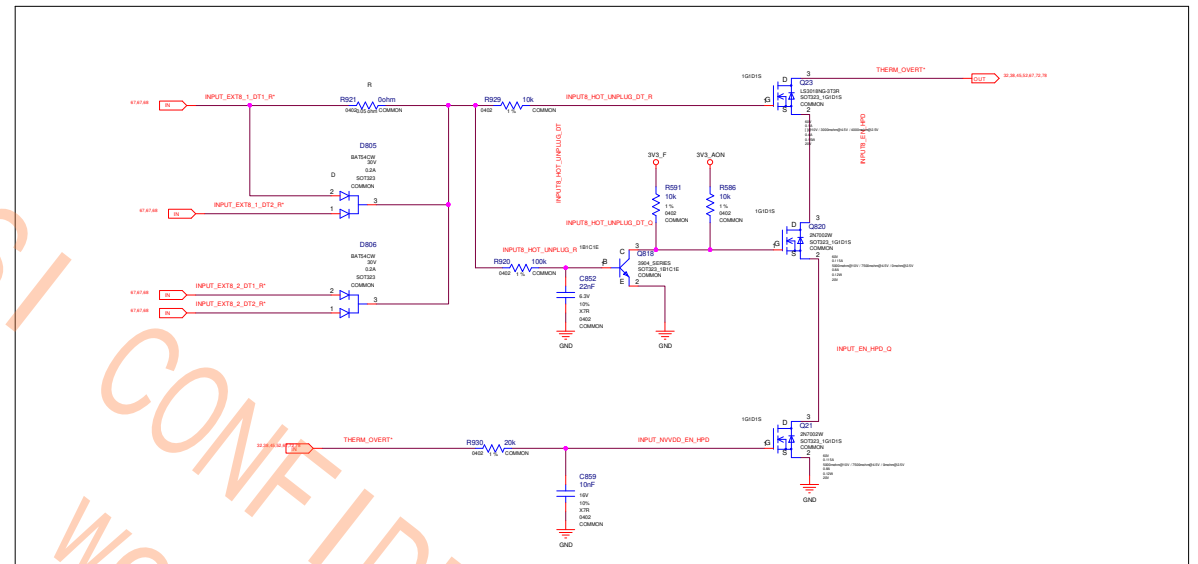
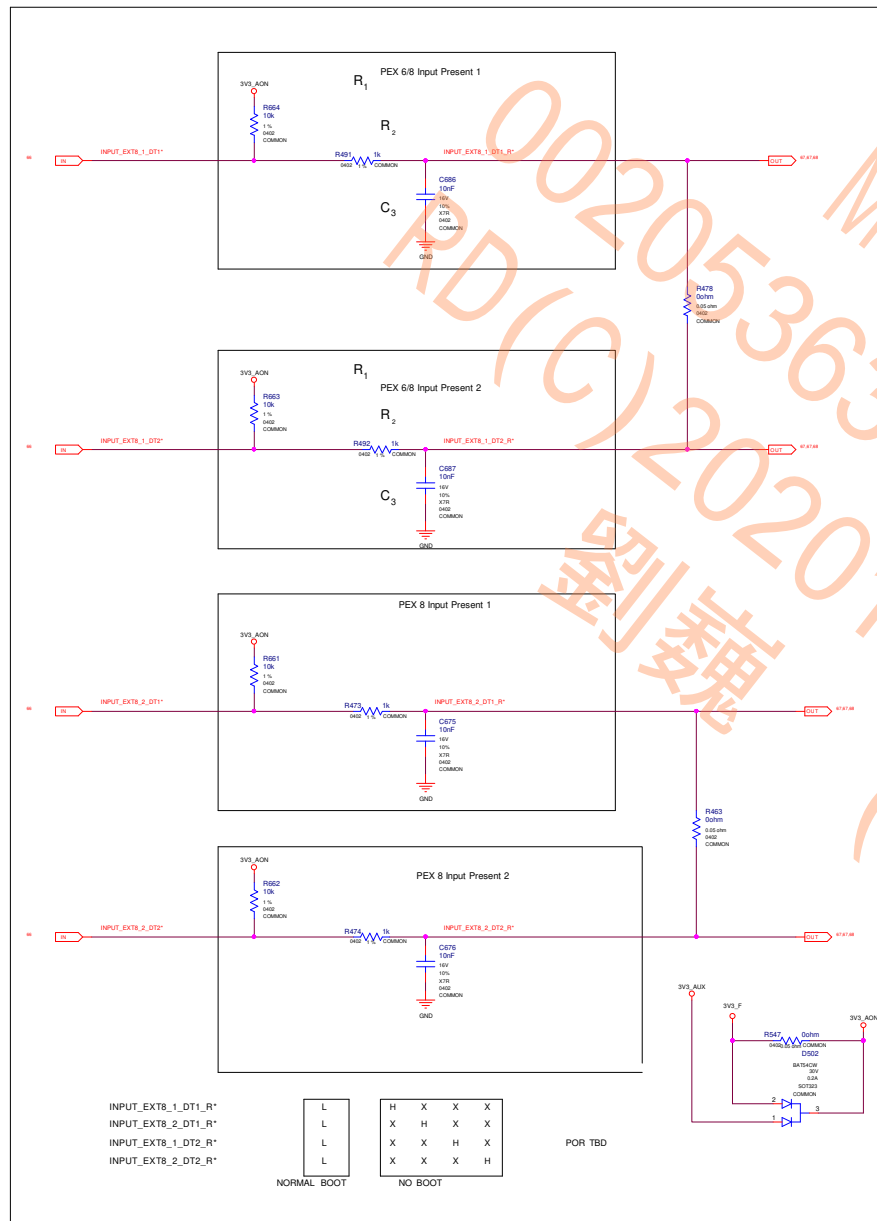
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PAGE DETAIL	PS: INPUTS, FILTERING, AND MONITORING


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NV_PN	600-1G132-BASE-300
PCB REV	PG132-A02
BCM REV	A
PAGE	66 OF 79
DATE	10 JUN 2020

PS: 12V Current Steering & Hot Unplug Detect



NVIDIA CORPORATION 2701 SAN TOMAS EXPRESSWAY SANTA CLARA, CA 95050, USA				
NV_PN		600-1G132-BASE-300		
PCB REV	BG132-A02	PAGE	67 OF 79	
PGM REV	A	DATE	10-JUN-2020	

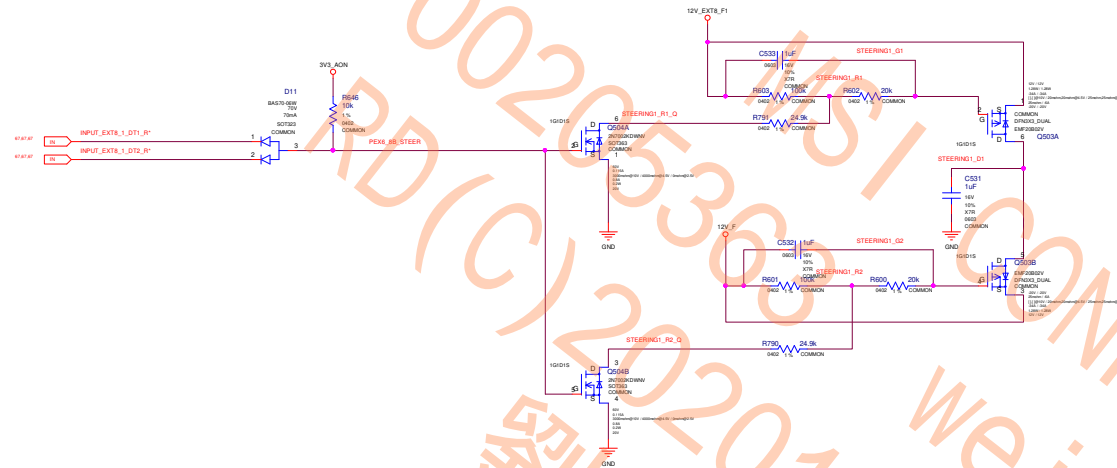
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ASSEMBLY	<ASSEMBLY_DESCRIPTION
PAGE DETAIL	PS: HOT UNPLUG

PS: Discrete Steering

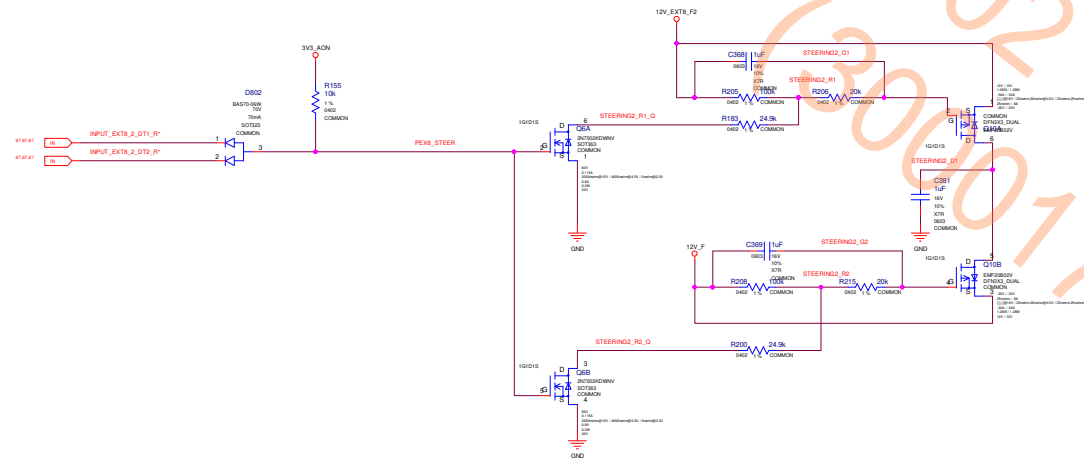
12V CURRENT STEERING (UNDER POWER BOOT):

PEX12V AND 12V_EXT8_F1



NO STUFF BY DEFAULT REF ONLY

PEX12V AND 12V_EXT8_F2



ASSEMBLY	ASSEMBLY DESCRIPTION
PAGE DETAIL	PS: Discrete Power Steering

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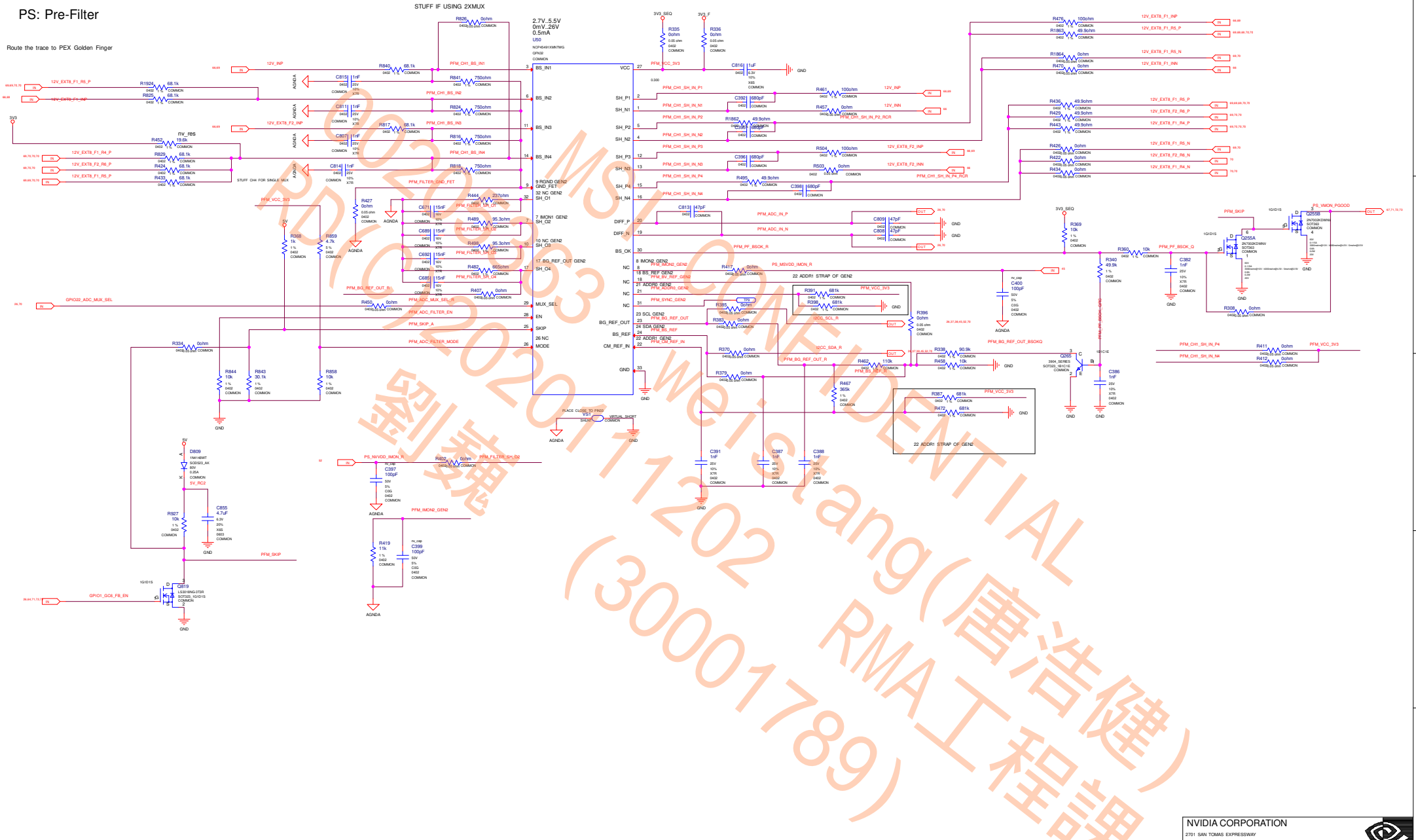


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PCB REV	PG132-A02	PAGE	68 OF 79
BOM REV	A	DATE	10-JUN-2020



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PS: Pre-Filter

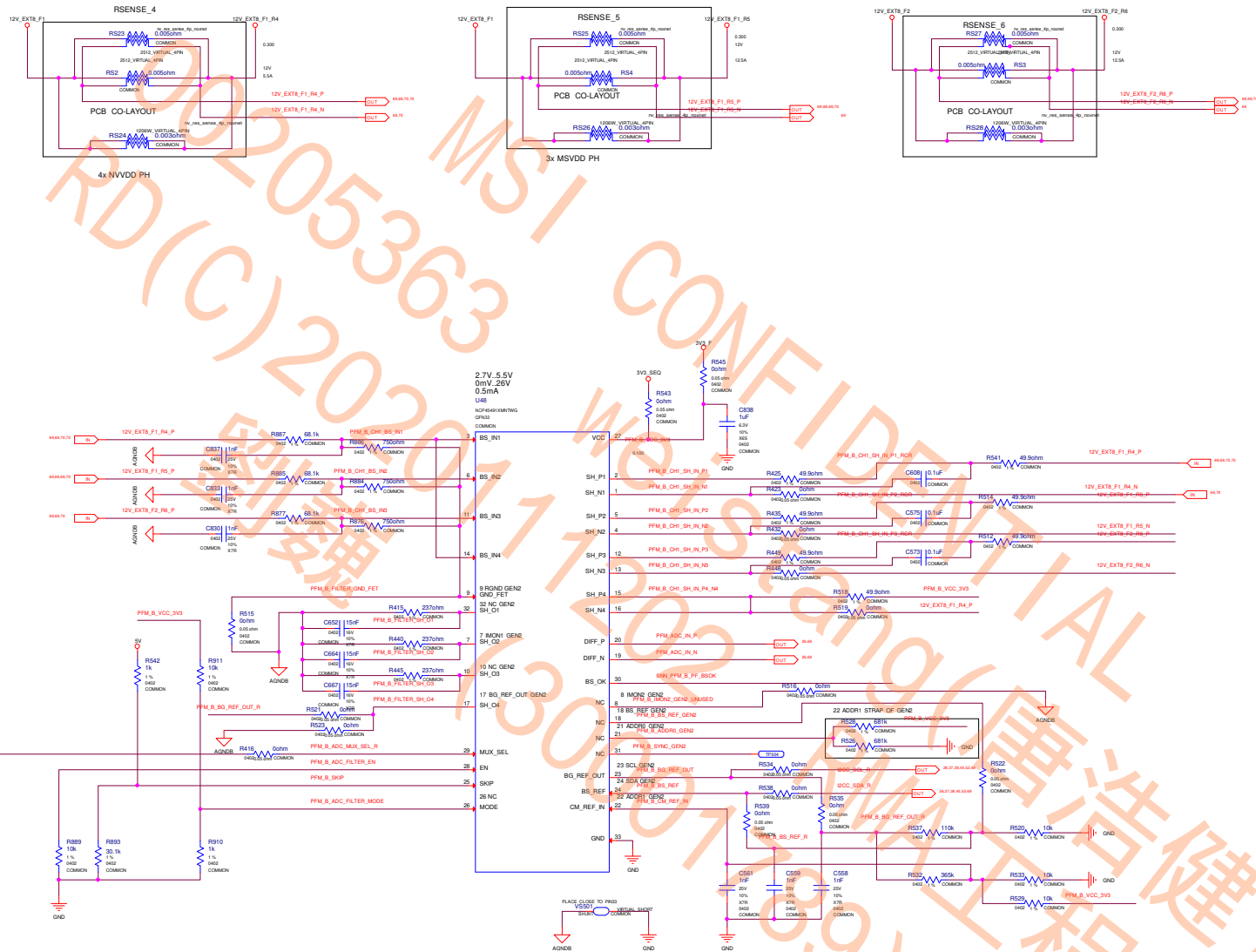
Route the trace to PEX Golden Finger



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		PCB REV	PT132-302	PAGE 69 OF 79
		BCM REV	A	DATE 10-JUN-2020





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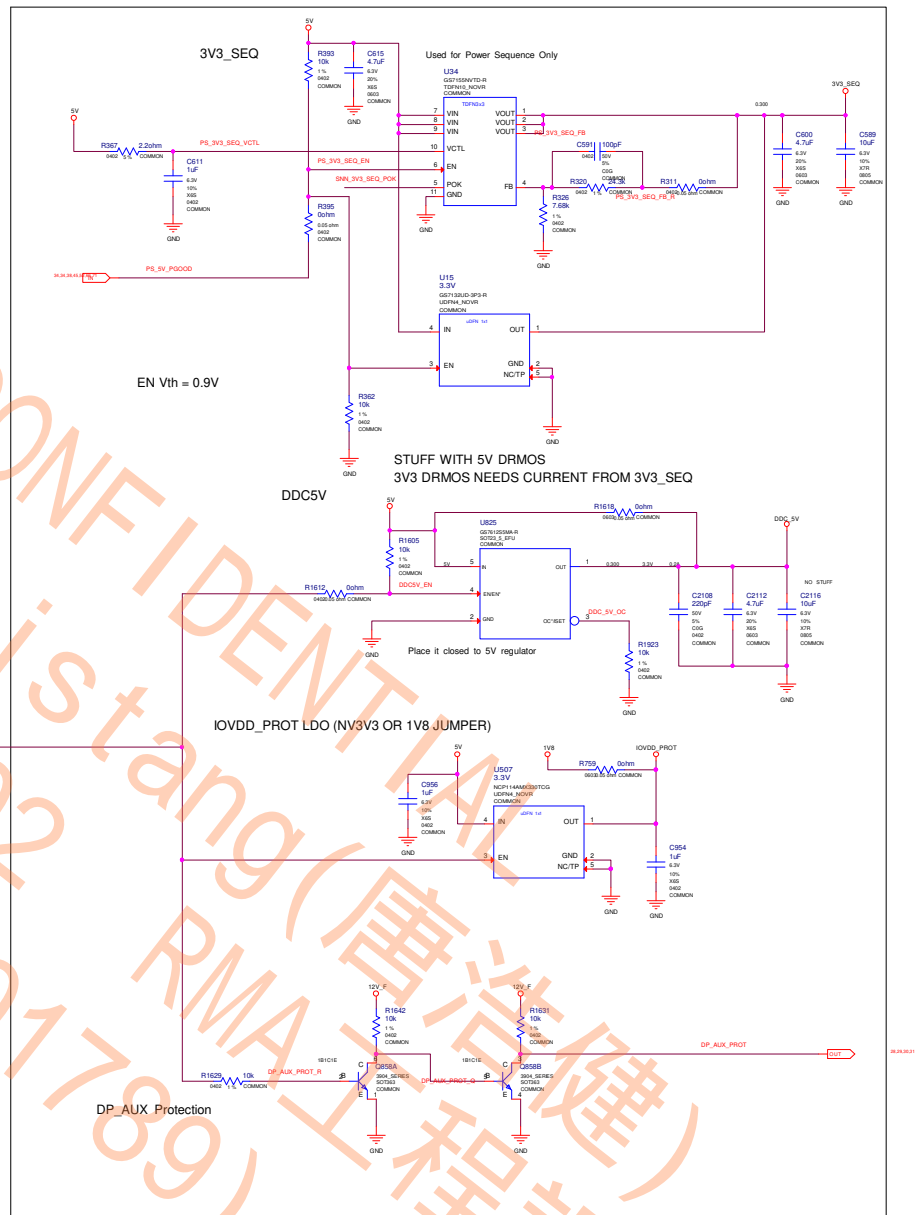
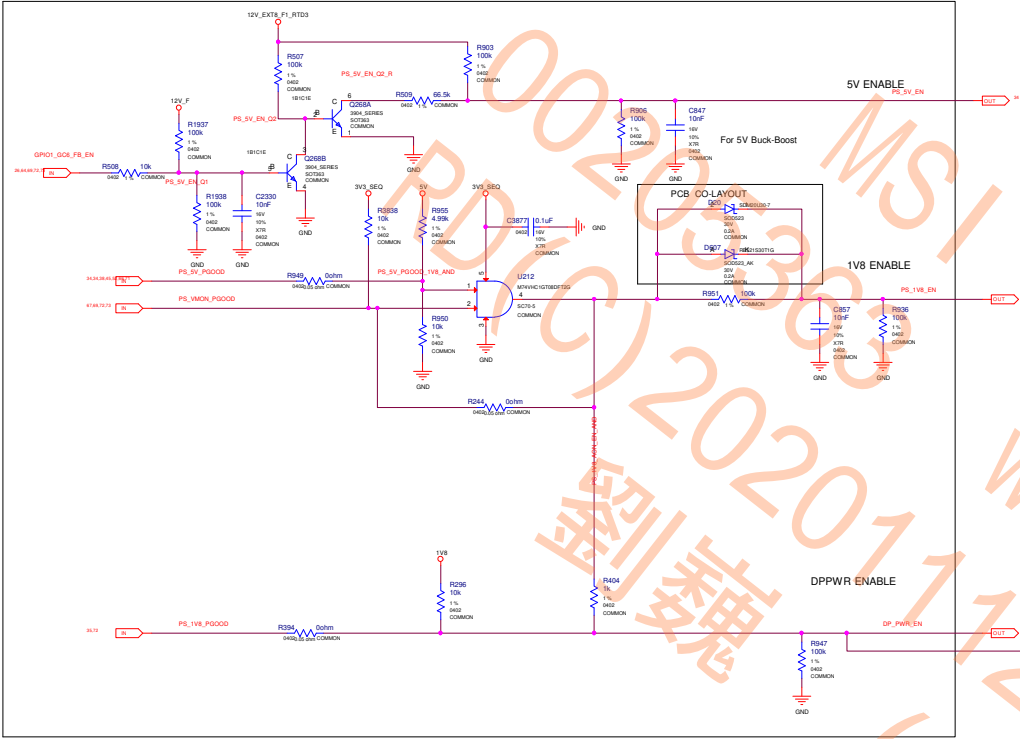
PCB REV PG132-A02

BCM REV A

PAGE 70 OF 79
DATE 10-JUN-2020

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SEQUENCE:5V,1V8,3V3_SEQ ENABLE



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NV_PN	600-1G132-BASE-300
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PCB REV	PG132-A02	PAGE	71 OF 79
BCM REV	A	DATE	10-JUN-2020

2701 SAN TOMAS EXPRESSWAY
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PCB REV	PG132-A02
BCM REV	A

PCB REV	PG132-A02	PAGE	72 OF 79
BCM REV	A	DATE	10-JUN-2020

[illegible]

3V3 can be monitored by OVR-M with un-used Channel

ASSEMBLY	«ASSEMBLY DESCRIPTION»	SANTA CLARA, CA 95050, USA	
PAGE: DETAIL	Sequence: 3/VA MONITOR	NV_PN	600-1G132-BASE-300
MAY		PCB REV	PG132-300Z
DISCLAIM ALL		PAGE	73 OF 79
Y STANDARDS.		DATE	10-JUN-2020

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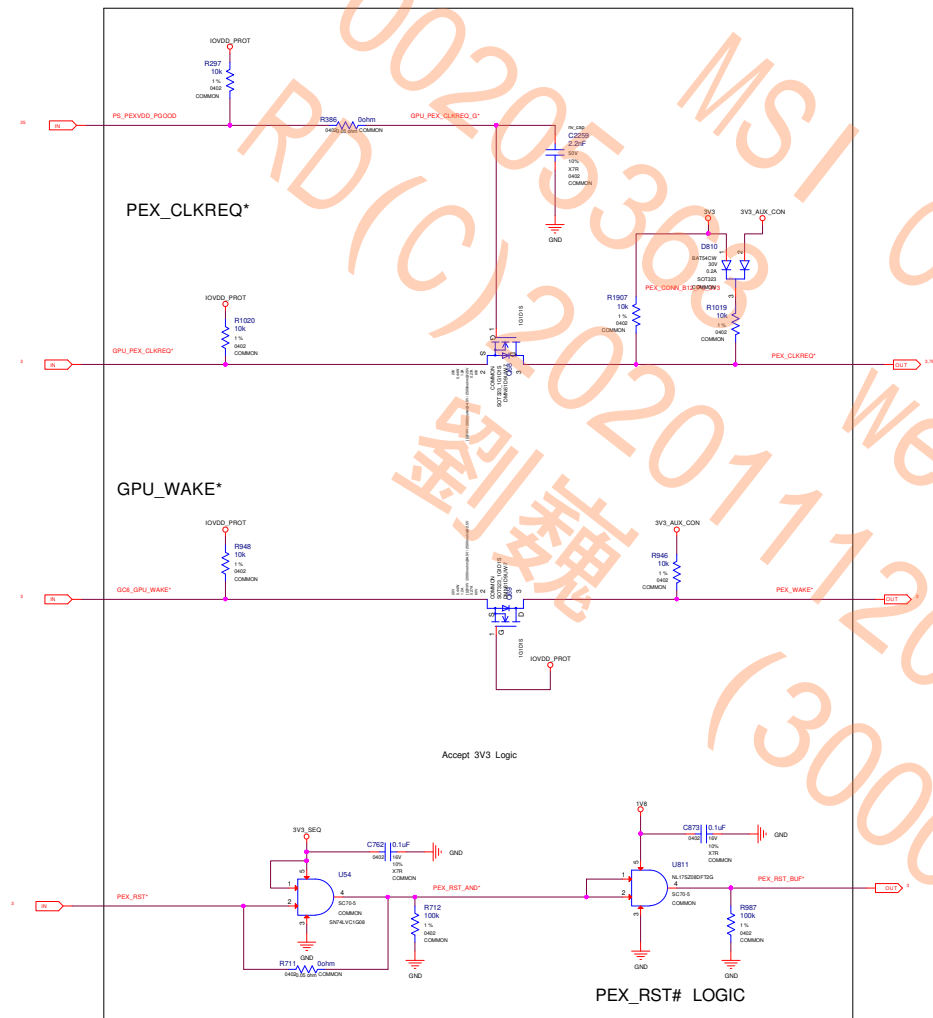


NV_PN	600-1G132-BASE-300
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PCB REV	PG132-A02	PAGE	73 OF 79
BOM REV	A	DATE	10-JUN-2020

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SEQUENCE:MISC



Accept 3V3 Logic

PEX_RST# LOGIC

ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	Sequence: MSC

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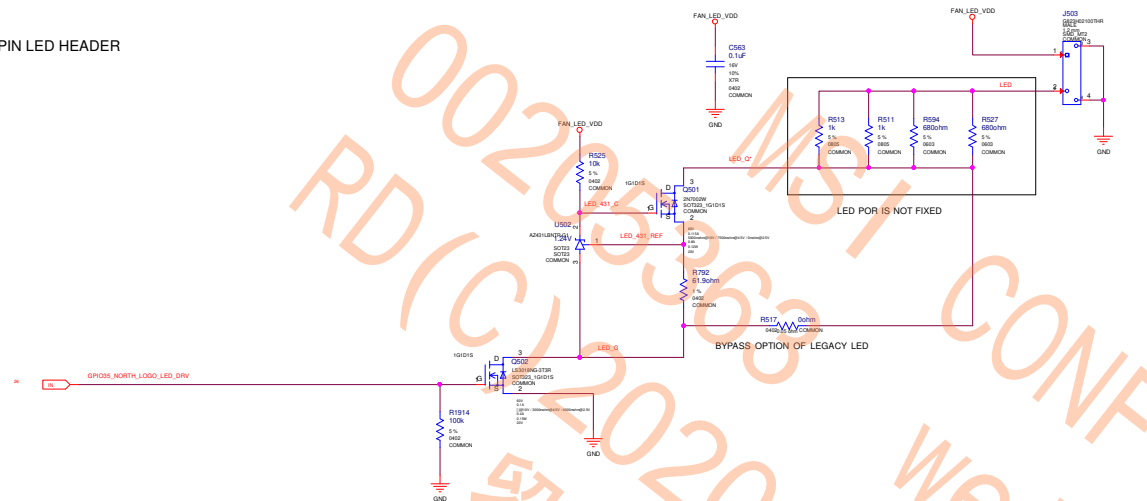


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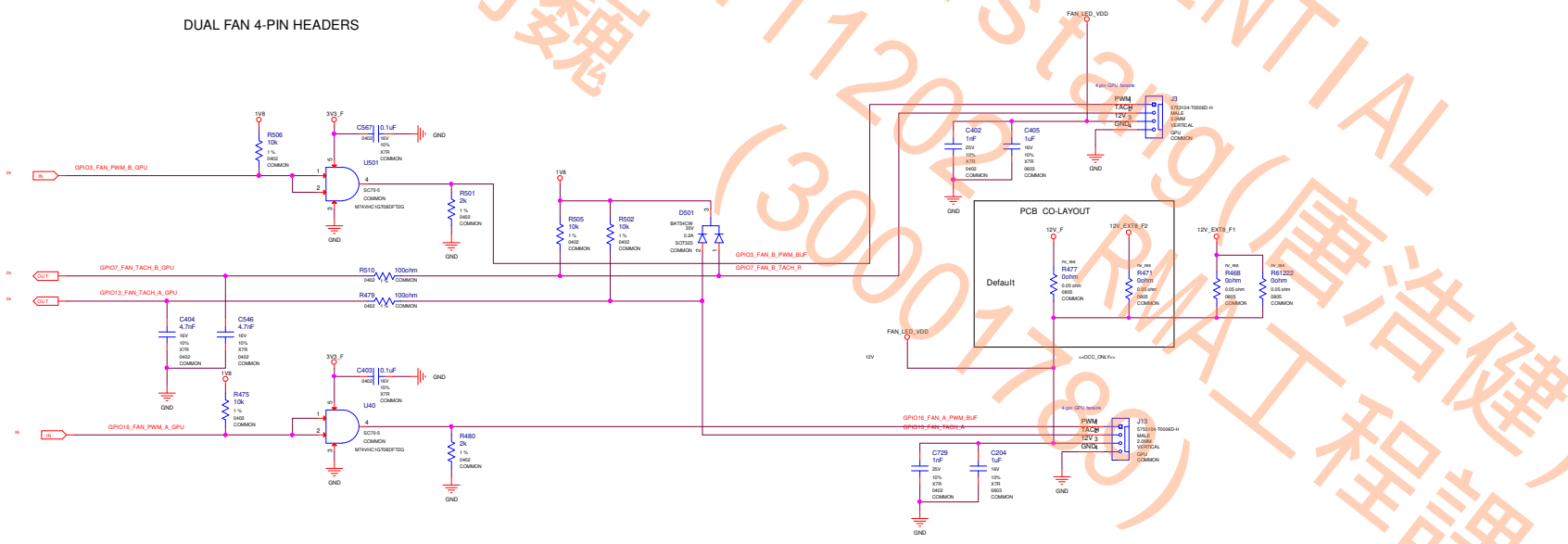
PCB REV	PG132-A02	PAGE	74 OF 79
BOM REV	A	DATE	10-JUN-2020

BOM REV	A	DATE	10-JUN-2020
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2-PIN LED HEADER



DUAL FAN 4-PIN HEADERS



NVIDIA CORPORATION

2701 SAN TOMAS
EXPRESSWAY
SANTA CLARA, CA 95050, US



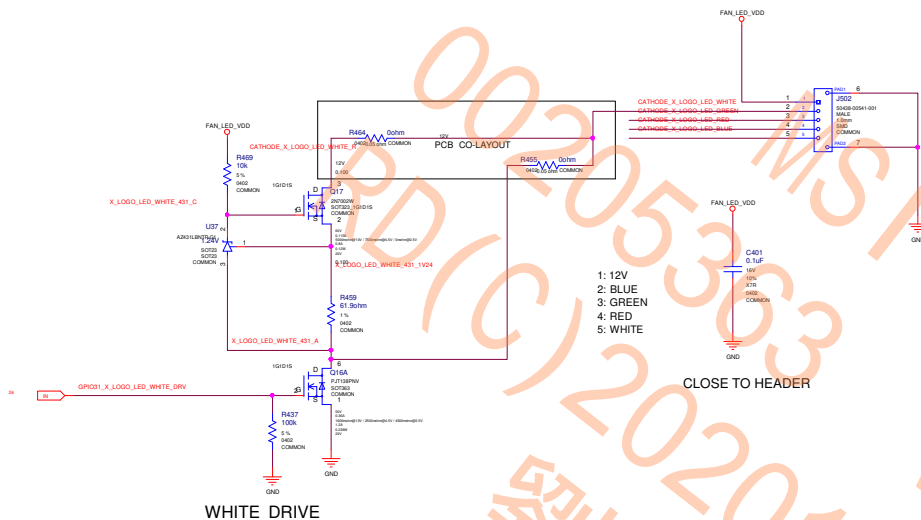
NV_PN	600-1G132-BASE-300
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PCB REV	PG132-A02
BCM REV	A

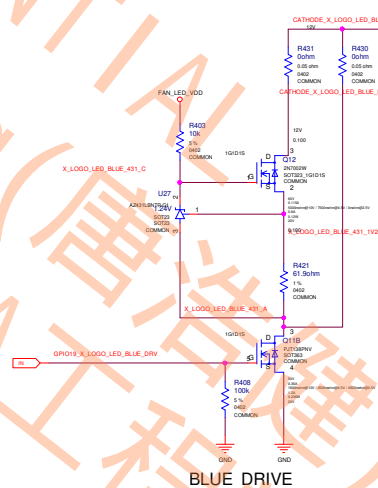
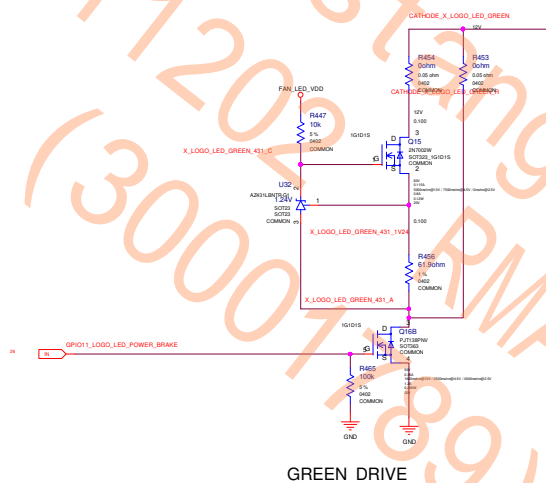
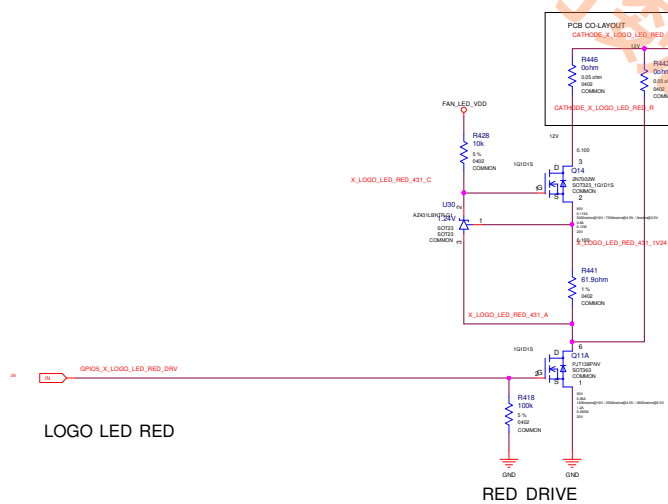
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MISC: RGBW LED REF



CONNECTOR SIZE TO FIT LAYOUT
ALL CIRCUIT NO STUFF BY DEFAULT
ALINGN WITH PASH
IF ADDITIONAL POWER CONSUPTION R
NEEDED, IT SHOULD BE ON LED MOD.



ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	RGBW LED REF

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2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

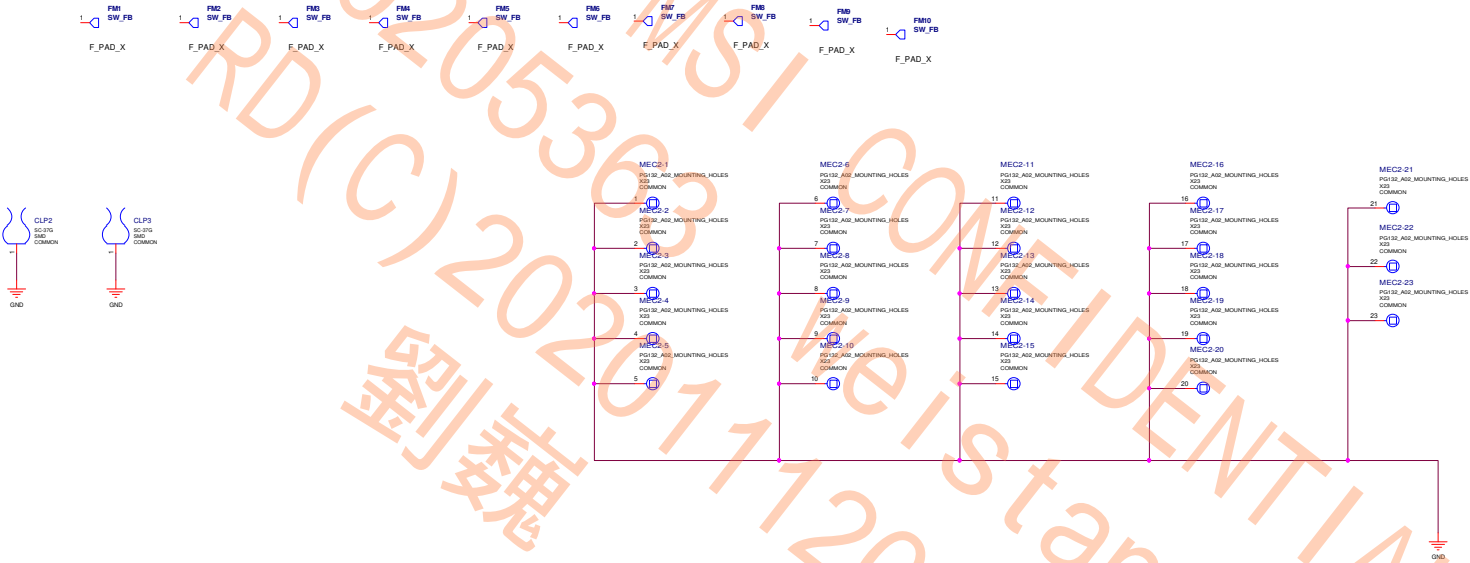


NV_PN	600-1G132-BASE-300
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PCB REV	PG132-A02	PAGE	76 OF 79
BCM REV	A	DATE	10-JUN-2020

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Mechanical: Mounting holes



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ASSEMBLY		ASSEMBLY DESCRIPTION		SANTA CLARA, CA 95050, USA	
PCB DETAIL		MECH		600-1G132-BASE-300	
SCLAMS		NV_PN		PCB REV	
				77 OF 79	
		PCB REV		DATE	
		BOB REV		10-JUN-2020	

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A	B	C	D	E	F	G	H
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PCI TERM



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