

P2010

75W/100W GK107/GF108 128-BIT GDDR5 in x32/x16 MODE
DVI-I-DL + DVI-D-DL/HDMI +mHDMI/DP

TABLE OF CONTENTS

Page	Description
1	Table of Contents
2	PCI Express
3	GPU Frame Buffer Partition A/B
4	FBA Partition [31..0]
5	FBA Partition [63..32]
6	FBB Partition [31..0]
7	FBB Partition [63..32]
8	GPU FB Decoupling
9	DACA VGA
10	IFPAB TMDS
11	IFPC mHDMI
12	IFPC DP
13	IFPEF TMDS
14	IFPE Long HDMI
15	Core Decoupling, GPU VDD_3V3
16	Misc Interfaces
17	Straps, Thermal, Mechanical
18	Power Supply I: Misc Power
19	Power supply II: PEX_VDD
20	FBVDDQ
21	NVVDD CTRL
22	NVVDD MOS
23	12V EXT / 12V PEX Power Select Circuit


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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY
PAGE DETAIL	Table of Contents

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NV_PN	600-12010-BASE-000		
PCB REV	P2010-A00	PAGE	1 OF 23
BOM REV	A	DATE	14-JUN-2011

12V_PEX

C75
10µF
16V
10%
X09
1205
COMMON

C76
1µF
16V
10%
X09
0603
COMMON

GND

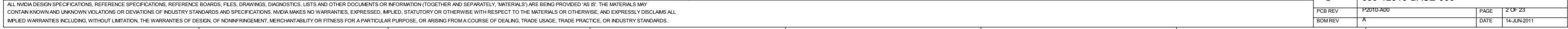
3V3_PEX

C78
1µF
16V
10%
X09
0603
COMMON


C77
0.1µF
16V
10%
X7R
0402
COMMON

GND

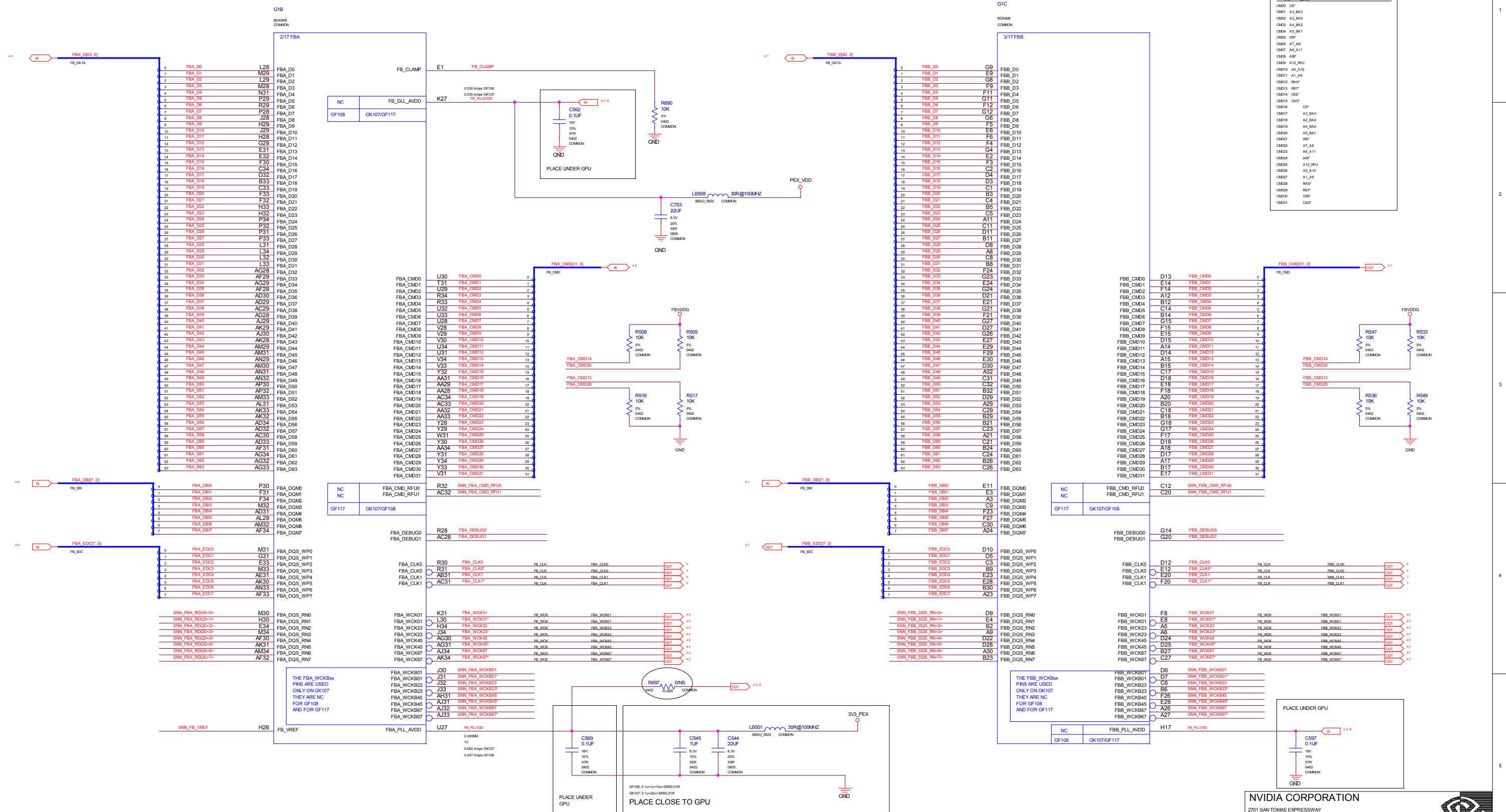
PLACE CLOSE TO CONNECTOR



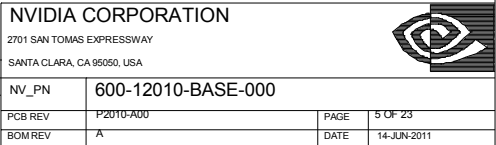
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PAGE DETAIL	PCI Express

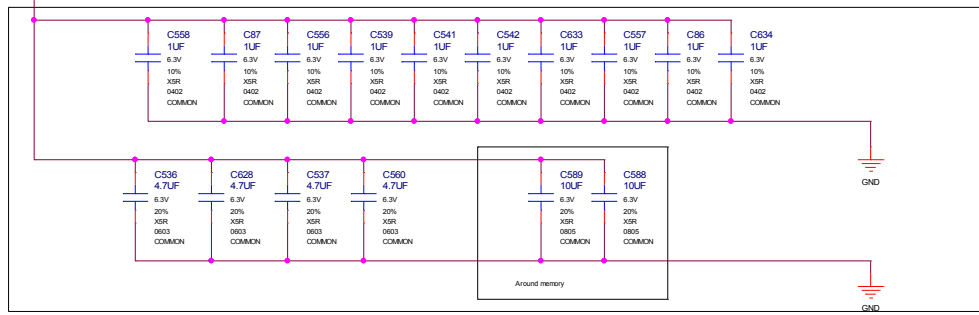
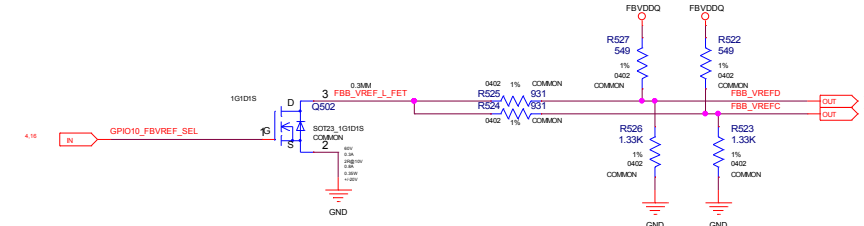
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NV_PN	600-12010-BASE-000		
PCB REV	P2010-A00	PAGE	Z OF Z3
BOM REV	A	DATE	14-JUN-2011

GPU Frame Buffer Partition A/B

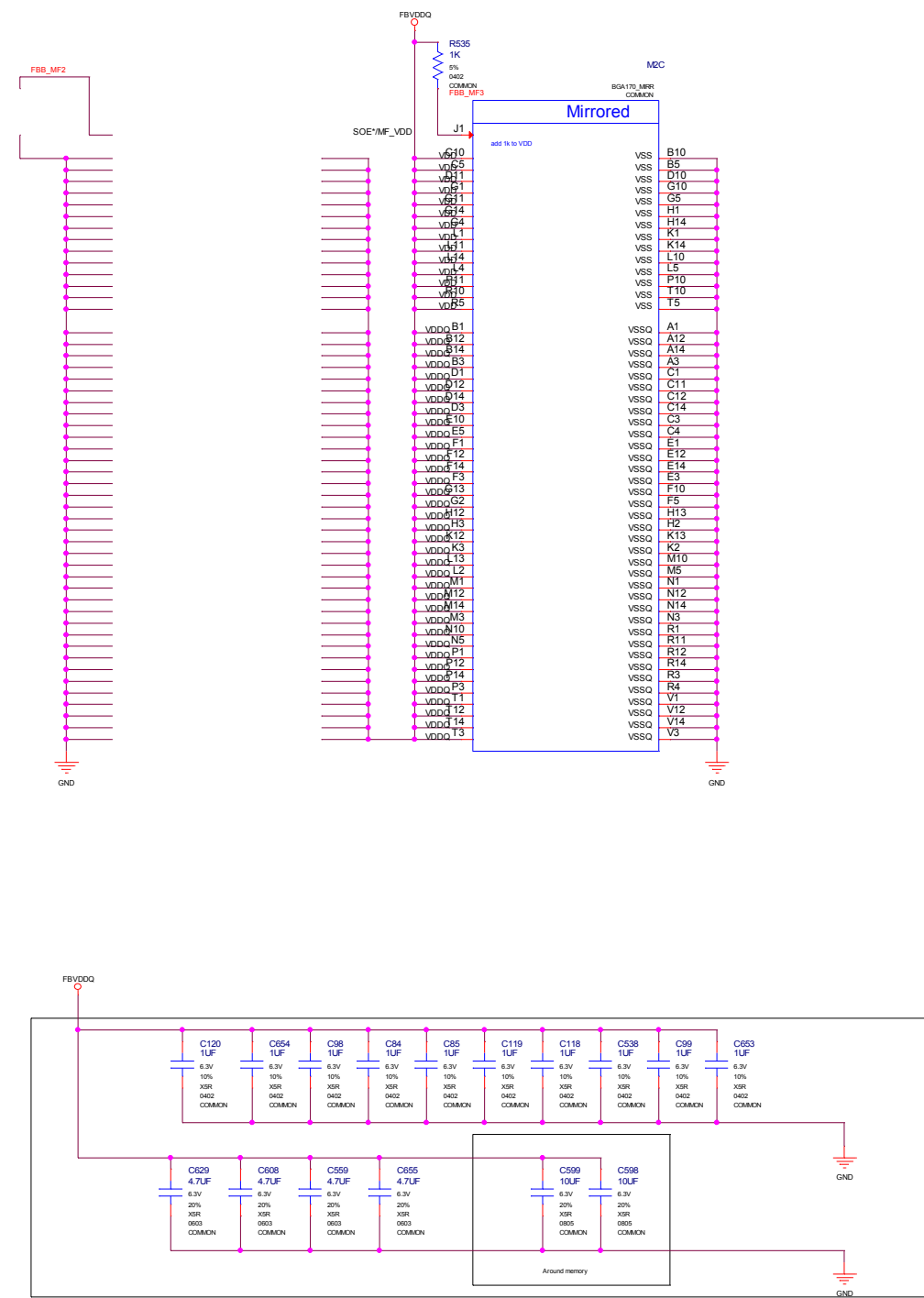



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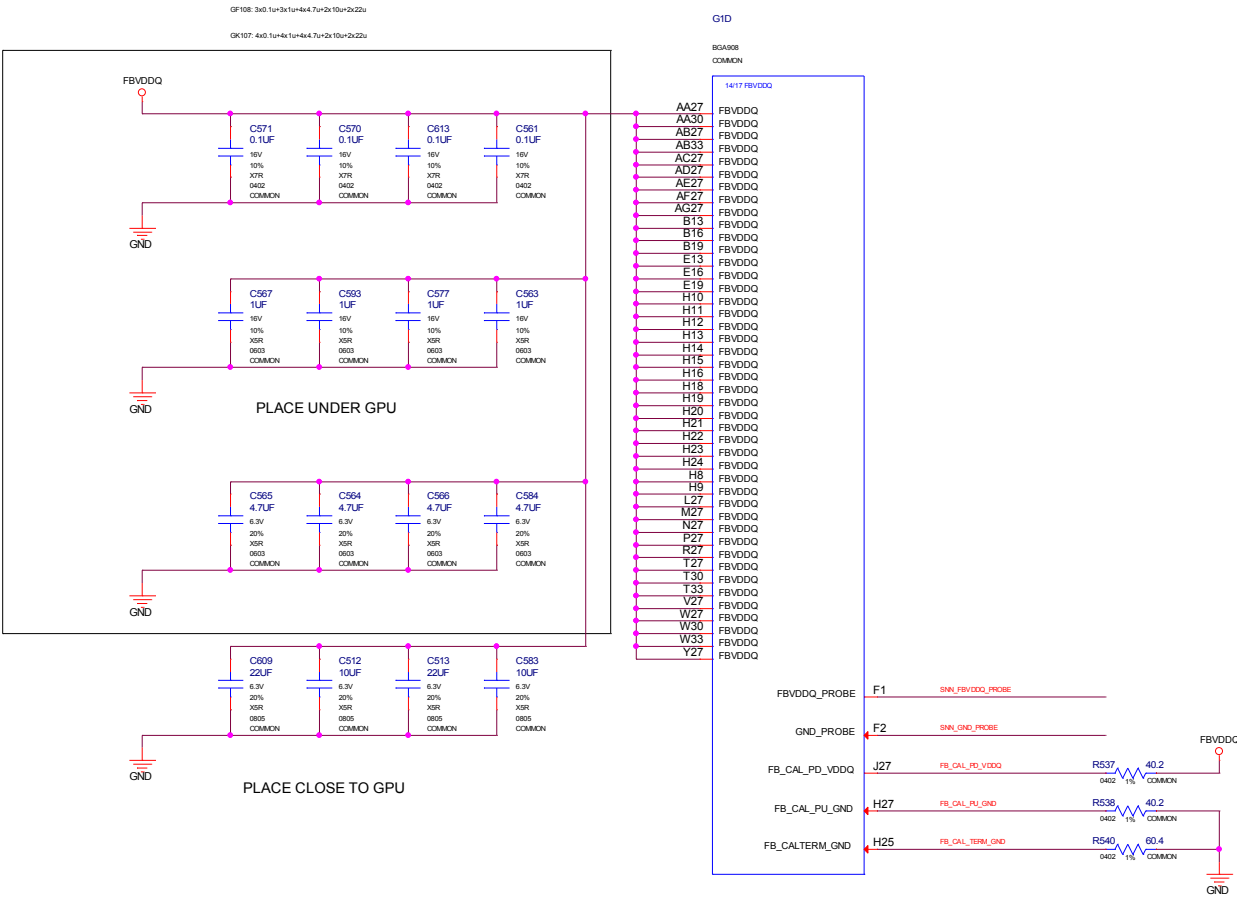
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PAGE DETAIL	FBB Partition [31..0]



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NV_PN	600-12010-BASE-000		
PCB REV	P2010-A00	PAGE	7 OF 23
BOM REV	A	DATE	14-JUN-2011

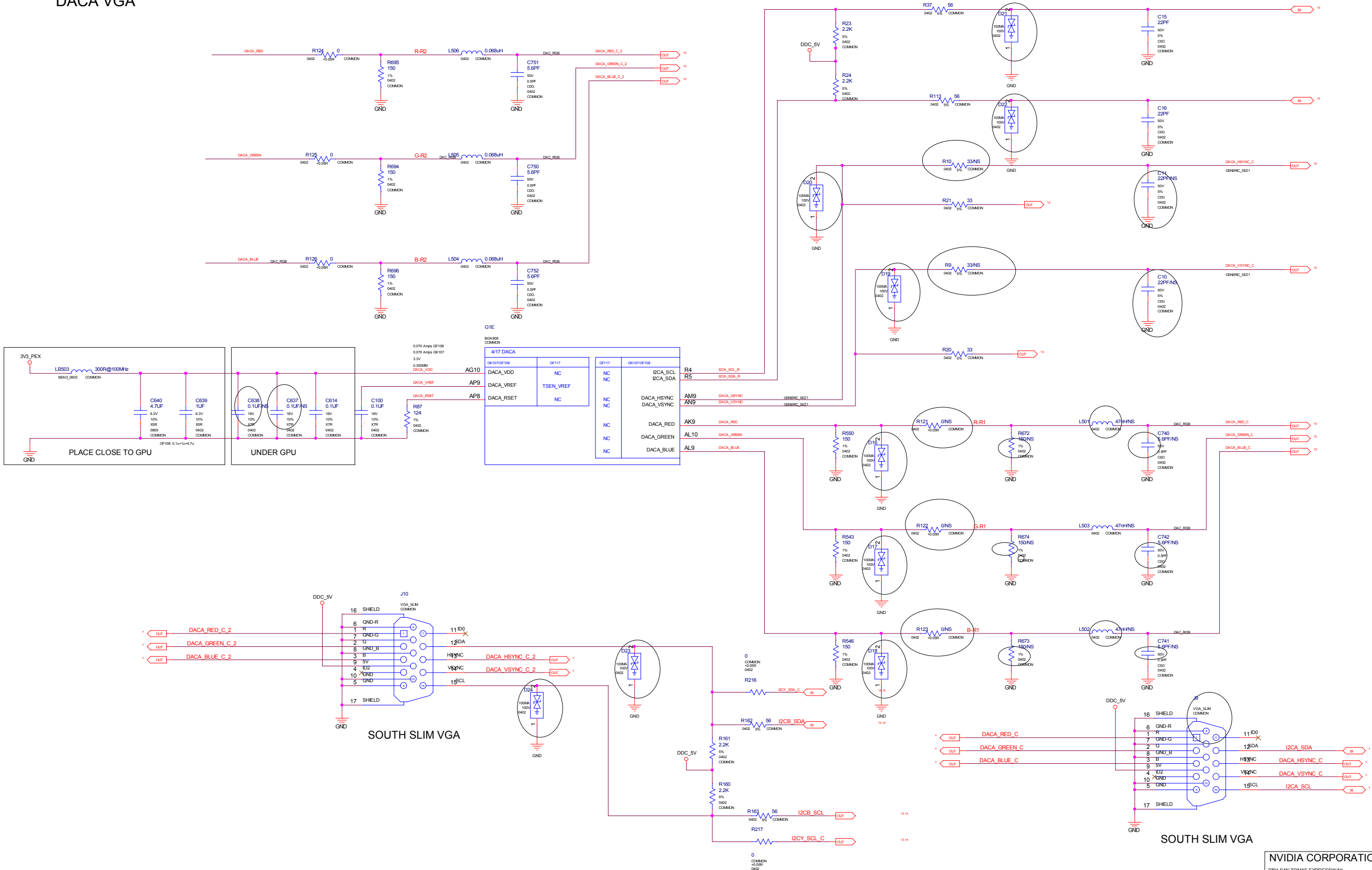
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FB Decoupling



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DACA VGA

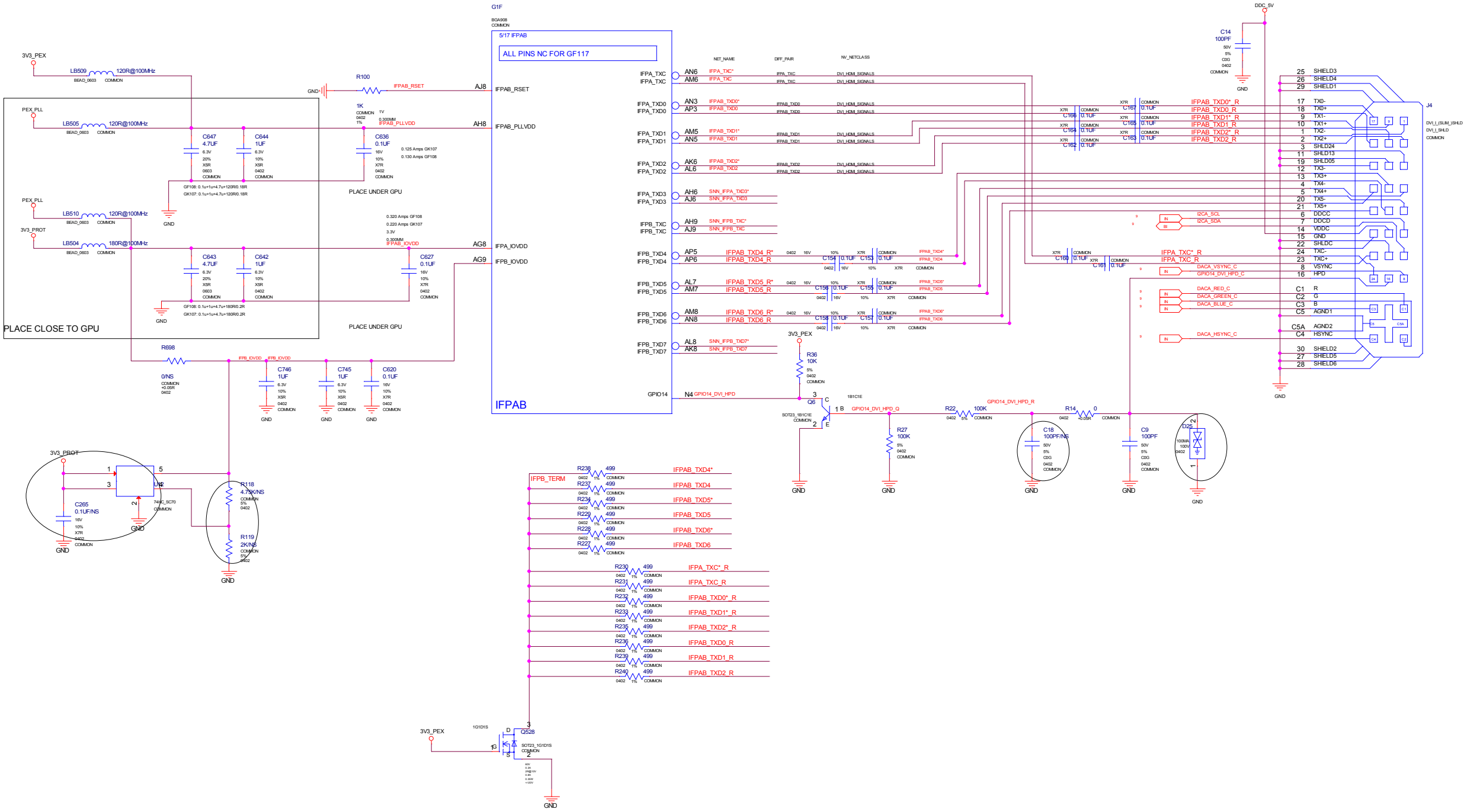


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PAGE DETAIL	DACA VGA

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NV_PN	600-12010-BASE-000
PCB REV	P2010-A00
BOM REV	A
PAGE	9 OF 23
DATE	14-JUN-2011

IFPAB TMD5

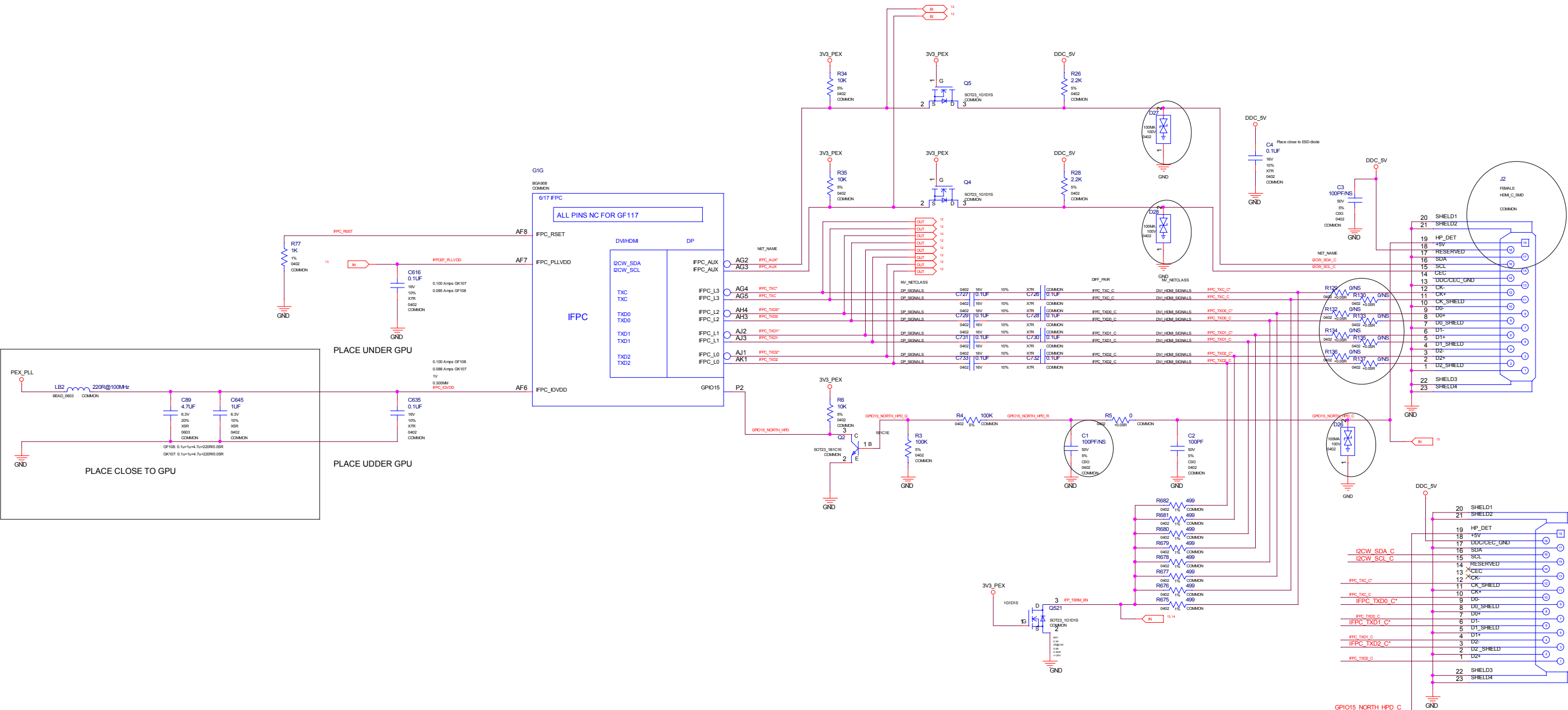


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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY
PAGE DETAIL	IFPAB TMD5

NVIDIA CORPORATION	
2701 SAN TOMAS EXPRESSWAY	
SANTA CLARA, CA 95050, USA	
NV_PN	600-12010-BASE-000
PCB REV	P2010-A00
BOM REV	A
PAGE	10 OF 23
DATE	14-JUN-2011

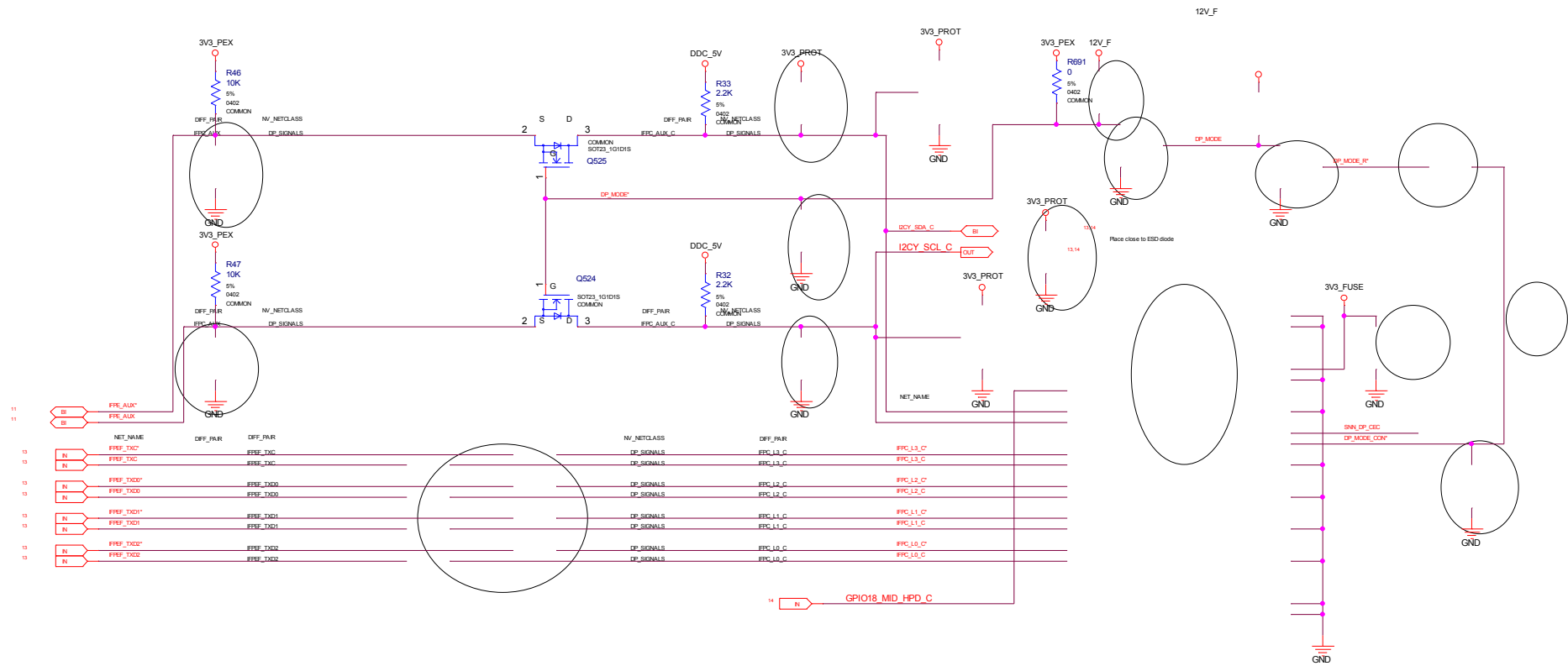
IFPC mHDMI



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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY
PAGE DETAIL	IFPC mHDMI

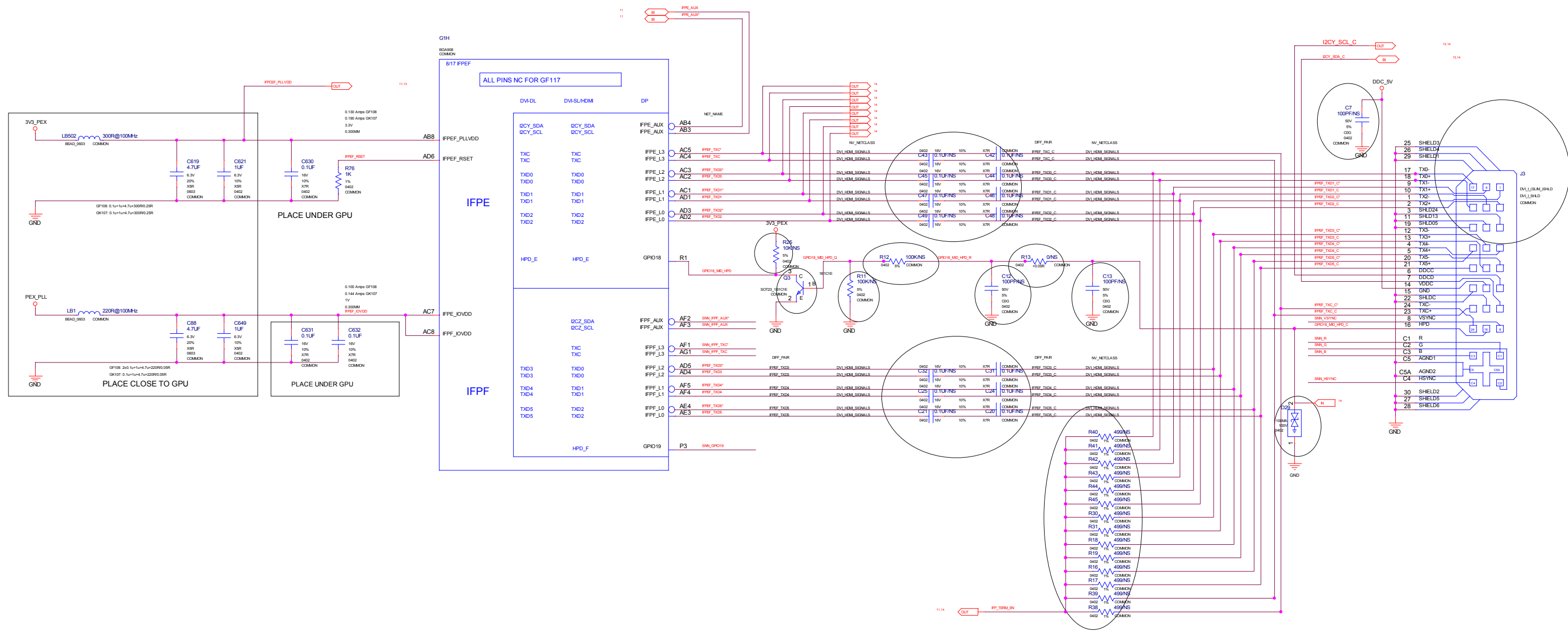
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NV_PN	600-12010-BASE-000		
PCB REV	P2010-A00	PAGE	11 OF 23
BOM REV	A	DATE	14-JUN-2011



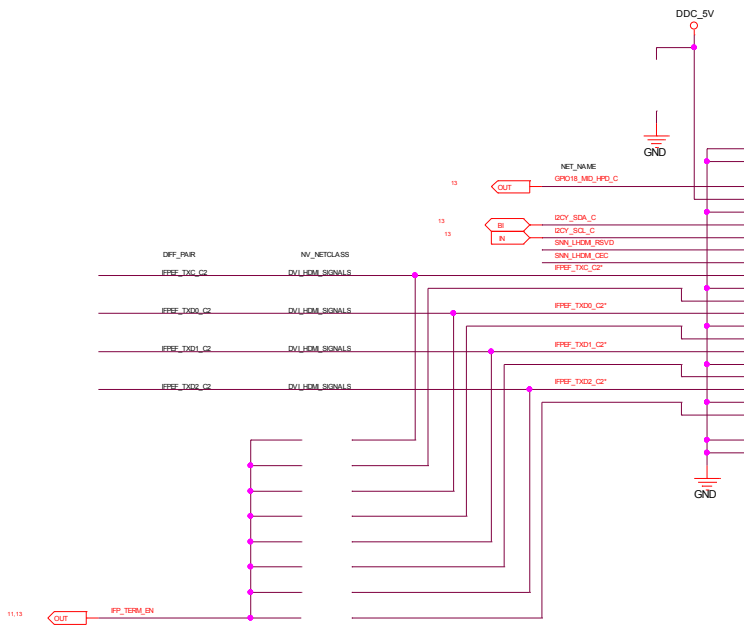
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PAGE DETAIL	FFPC DP

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NV_PN	600-12010-BASE-000		
PCB REV	P2010-A00	PAGE	12 OF 23
BOM REV	A	DATE	14-JUN-2011




IFPE Long HDMI



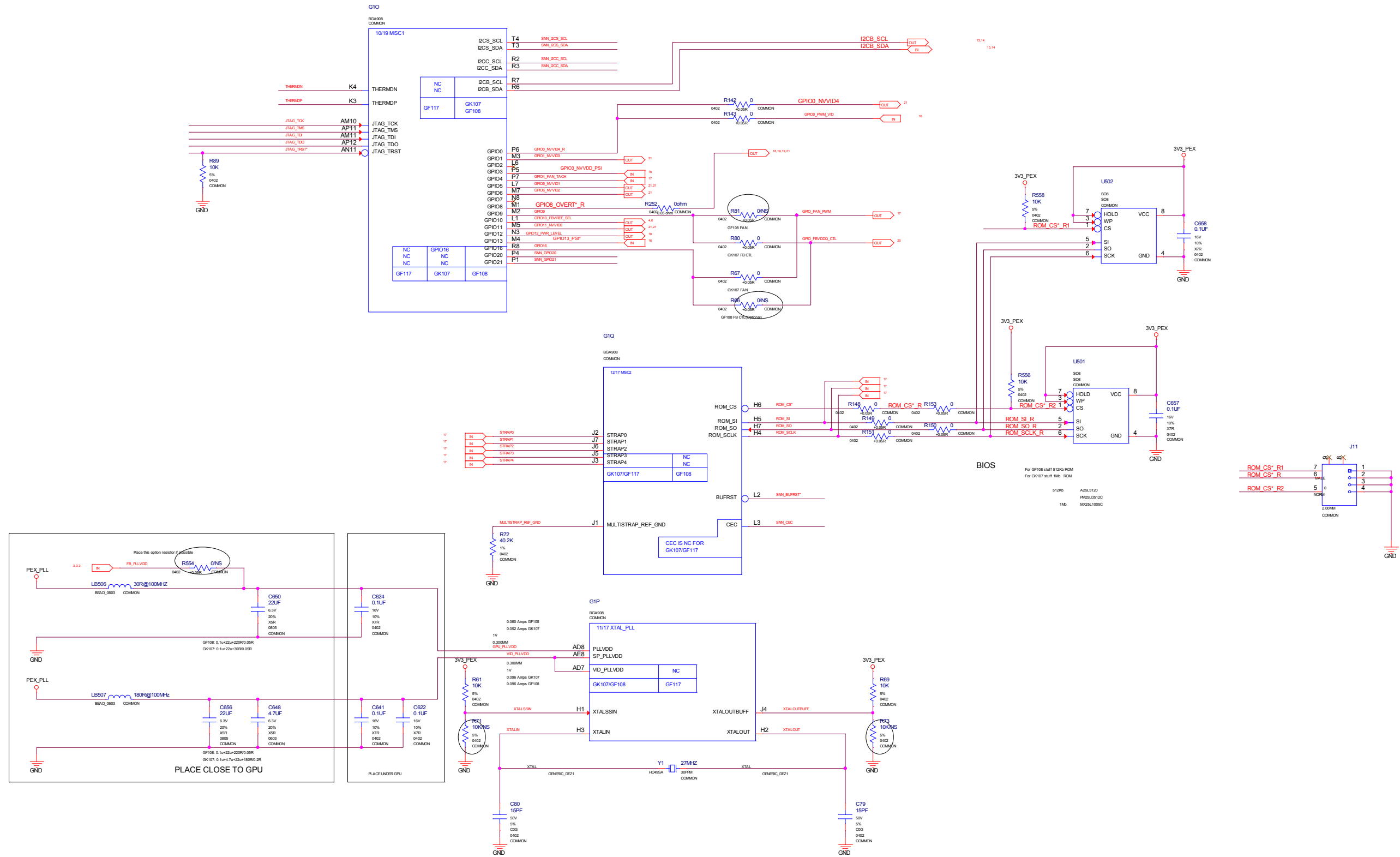
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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY	NVIDIA CORPORATION			
PAGE DETAIL	IFPE Long HDMI	2701 SAN TOMAS EXPRESSWAY SANTA CLARA, CA 95050, USA			
		NV_PN	600-12010-BASE-000		
		PCB REV	P2010-A00	PAGE	14 OF 23
		BOM REV	A	DATE	14-JUN-2011

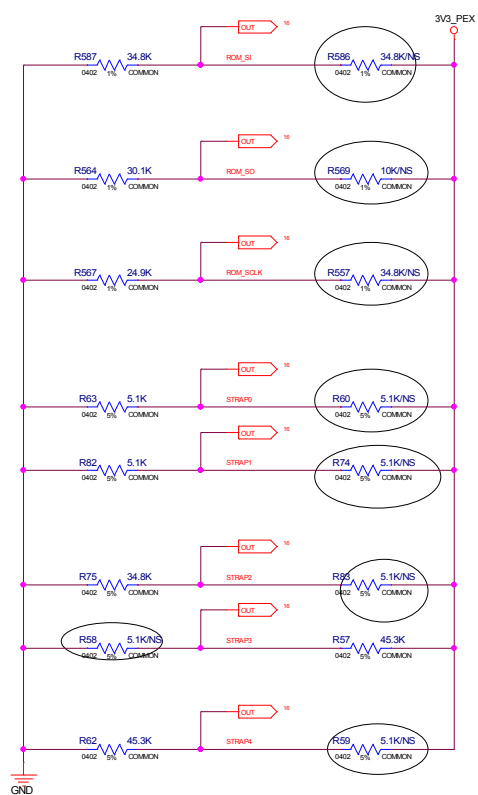
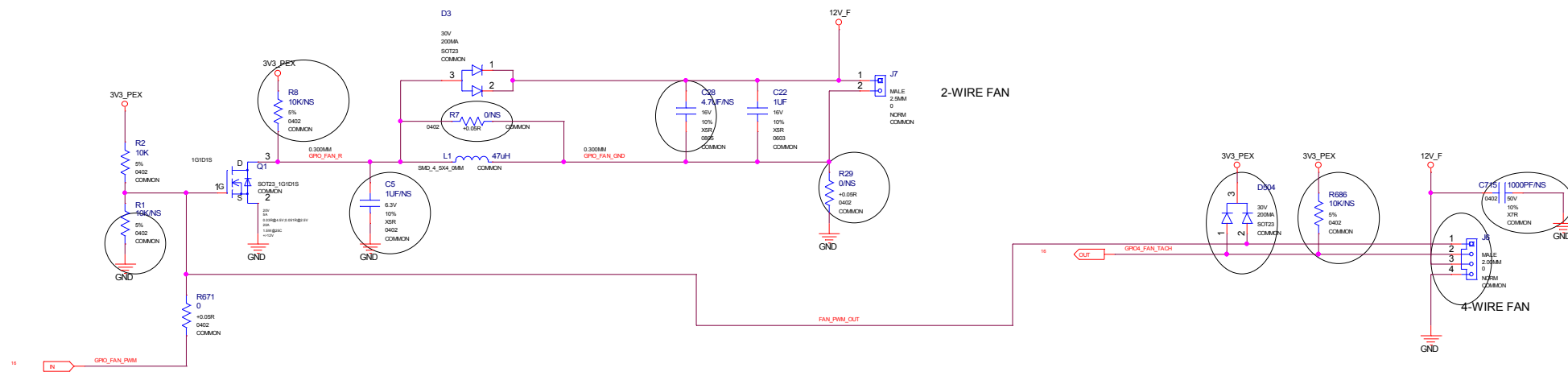


NVIDIA CORPORATION 2701 SAN TOMAS EXPRESSWAY SANTA CLARA, CA 95050, USA			
NV_PN	600-12010-BASE-000		
PCB REV	P2010-A00	PAGE	15 OF 23
BOM REV	A	DATE	14-JUN-2011

Misc Interfaces



Straps, Thermal, Mechanical



GK107 Straps

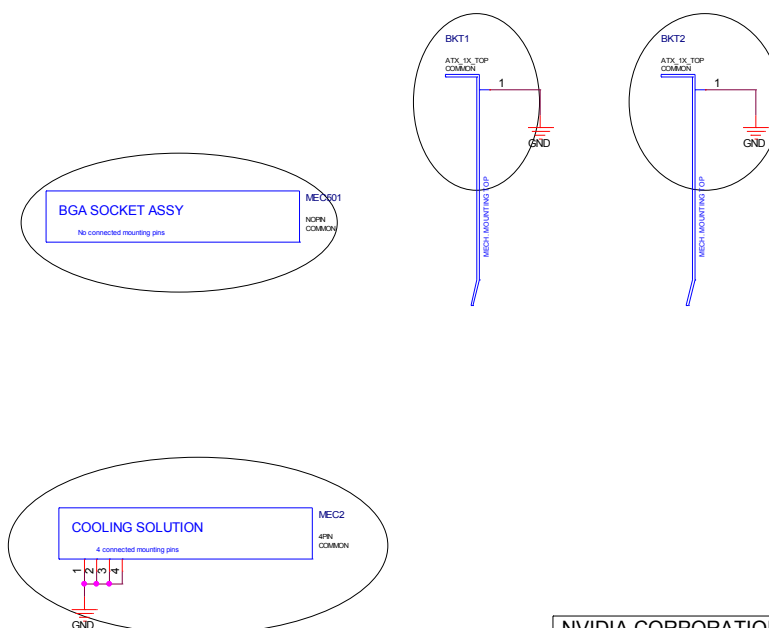
Bit Signal		Values			
03:	RAMCP[0]	0000	64Mx16 128Mb	1000	64Mx16 64Mb
		0001	64Mx16 128Mb Micron	1001	64Mx16 64Mb Micron
02:	RAMCP[2]	0000	64Mx16 128Mb Hynix	1010	64Mx16 64Mb Hynix
		0011	64Mx16 128Mb Samsung	1011	64Mx16 64Mb Samsung
01:	RAMCP[1]	0100	128Mx16 128Mb	1100	128Mx16 64Mb
		0101	128Mx16 128Mb Micron	1101	128Mx16 64Mb Micron
00:	RAMCP[3]	0110	128Mx16 128Mb Hynix	1110	128Mx16 64Mb Hynix
		0111	128Mx16 128Mb Samsung	1111	128Mx16 64Mb Samsung
03:	FB[1]	01	128MB		
02:	FB[0]				
01:	SMI_ALT_ADDR	0	DISABLED	1	ENABLED
00:	VGA_DEVICE	0	DISABLED	1	ENABLED
03:	PCI_DEV0_EXT	0	INT		
02:	SUB_VENDOR	0	NO_BIOS	1	BIOS
01:	PCI_DEV0_EXT_BITS	0	INT		
00:	PXE_FLT_EN_10M100	0	DISABLED	1	ENABLED
03:	USER[3]	0000	INT		
02:	USER[2]				
01:	USER[1]				
00:	USER[0]				
03:	3IGD_P0CFG0_LUT_ADDR[5]	0000	DSKTOP_DEFAULT	1000	DSKTOP_HTRHS
		0001	MOBILE_DEFAULT	1001	MOBILE_HTRHS_N6AMP
02:	3IGD_P0CFG0_LUT_ADDR[6]	0010	MOBILE_HTRHS_LAMP	1010	MOBILE_HTRHS_LAMP
		0011	MOBILE_HTRHS_LAMP	1011	MOBILE_HTRHS_LAMP
01:	3IGD_P0CFG0_LUT_ADDR[1]	0100	MOBILE_HTRHS_HAMP	1100	MOBILE_HTRHS_HAMP
		0101	MOBILE_HTRHS_HAMP	1101	MOBILE_HTRHS_HAMP
00:	3IGD_P0CFG0_LUT_ADDR[0]	0110	MOBILE_HTRHS_H4HAMP	1110	MOBILE_HTRHS_H4HAMP
		0111	MOBILE_HTRHS_H4HAMP	1111	MOBILE_HTRHS_H4HAMP
03:	PCI_DEV[3]	0000	OK107-400-A-1		
02:	PCI_DEV[2]	0110	OK107-400-A-1		
01:	PCI_DEV[1]				
00:	PCI_DEV[0]				
03:	S0R0_EXPOSED	0	DISABLED	1	ENABLED
02:	S0R2_EXPOSED	0	DISABLED	1	ENABLED
01:	S0R1_EXPOSED	0	DISABLED	1	ENABLED
00:	S0R0_EXPOSED	0	DISABLED	1	ENABLED
02:	PCI_SPEED_CHANCE_GEN0	0	DISABLED	1	ENABLED
01:	PCI_MAX_SPEED	0	GEN1	1	GEN3
00:	CP_FLT_VDD0_V3V3	0	USEV18	1	USEV3V3

GF108 Straps

Bit Signal		Values	
03:	RAMCFG[0]	0000	64Mx16 128bit
		0001	64Mx16 128bit Micron
02:	RAMCFG[0]	0010	64Mx16 128bit Hynix
		0011	64Mx16 128bit Samsung
01:	RAMCFG[0]	1000	128Mx16 128bit
		0101	128Mx16 128bit Micron
00:	RAMCFG[0]	0110	128Mx16 128bit Hynix
		0111	128Mx16 128bit Samsung
		1100	128Mx16 64bit
		1101	128Mx16 64bit Micron
		1110	128Mx16 64bit Hynix
		1111	128Mx16 64bit Samsung
<hr/>			
03:	XCVR_417	0	DISABLED
		1	ENABLED
<hr/>			
02:	FEQ[0]	1	128MHz
<hr/>			
01:	SMR_ALT_ADDR	0	DISABLED
		1	ENABLED
<hr/>			
00:	VGA_DEVICE	0	DISABLED
		1	ENABLED
<hr/>			
03:	PCI_DEV0_EXT	0	GF108-400-A.1
<hr/>			
		0	NO_BIOS
		1	BIOS
<hr/>			
01:	ISLOT_CLK_CFG	0	DISABLED
		1	ENABLED
<hr/>			
00:	PEX_RL1_EN_TERRM00	0	DISABLED
		1	ENABLED
<hr/>			
03:	USER[0]	0000	INIT
02:	USER[0]		
01:	USER[1]		
00:	USER[0]		
<hr/>			
03:	X3G0_PADDRG0_LUT_ADDR[0]	0000	DSKTOP_DEFAULT
		0001	MOBILE_DEFAULT
02:	X3G0_PADDRG0_LUT_ADDR[0]	0010	MOBILE_HYDRIS_LAMP
		0011	MOBILE_HYDRIS_LAMP
01:	X3G0_PADDRG0_LUT_ADDR[0]	0100	MOBILE_HYDRIS_HAMP
		0101	MOBILE_HYDRIS_HAMP
00:	X3G0_PADDRG0_LUT_ADDR[0]	0110	MOBILE_HYDRIS_HAMP
		0111	MOBILE_HYDRIS_HAMP
		1000	MOBILE_HYDRIS_HAMP
		1001	MOBILE_HYDRIS_HAMP
		1010	MOBILE_HYDRIS_HAMP
		1011	MOBILE_HYDRIS_HAMP
		1100	MOBILE_HYDRIS_HAMP
		1101	MOBILE_HYDRIS_HAMP
		1110	MOBILE_HYDRIS_HAMP
		1111	MOBILE_HYDRIS_HAMP
<hr/>			
03:	PCI_DEV[0]	1	GF108-400-A.1
02:	PCI_DEV[0]		
01:	PCI_DEV[0]		
00:	PCI_DEV[0]		

Multilevel Straps

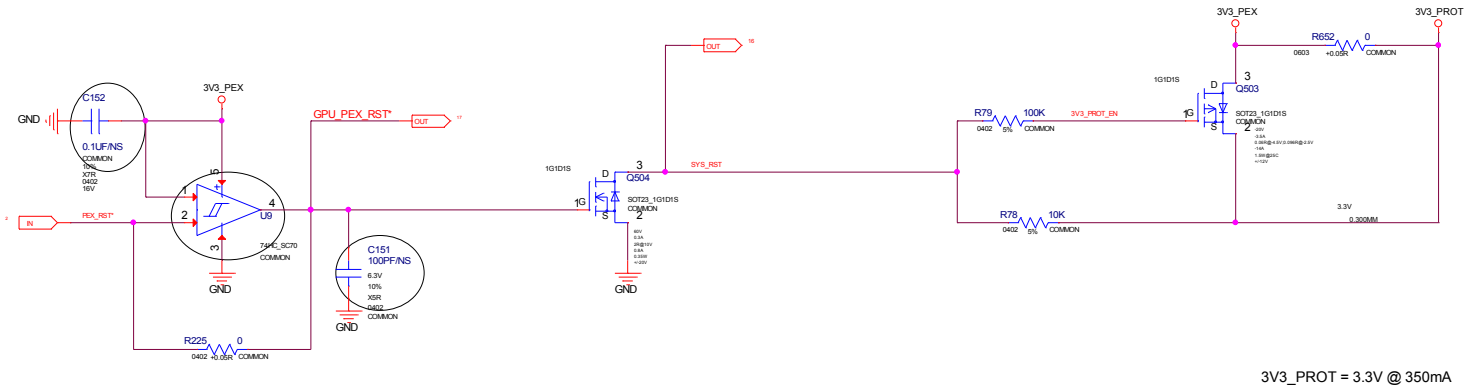
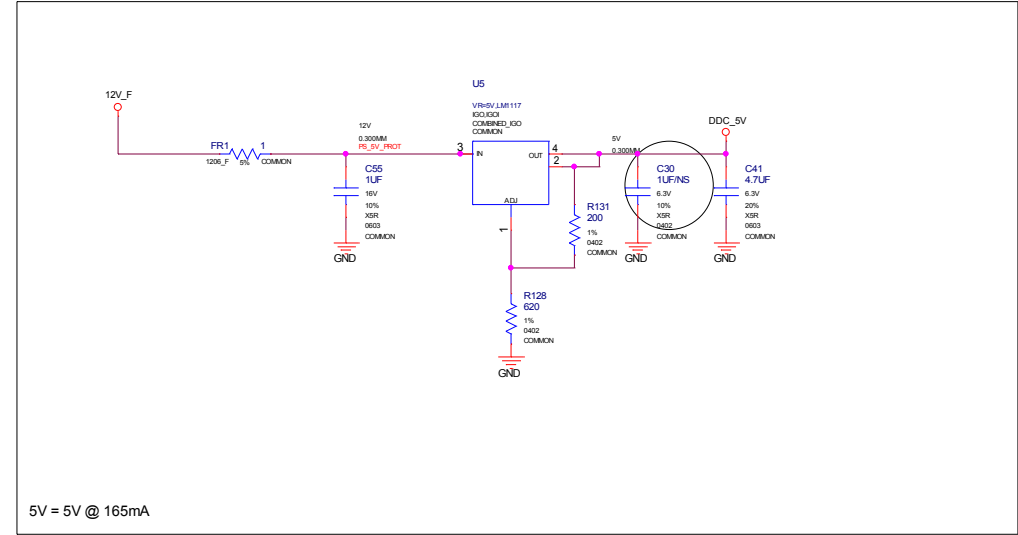
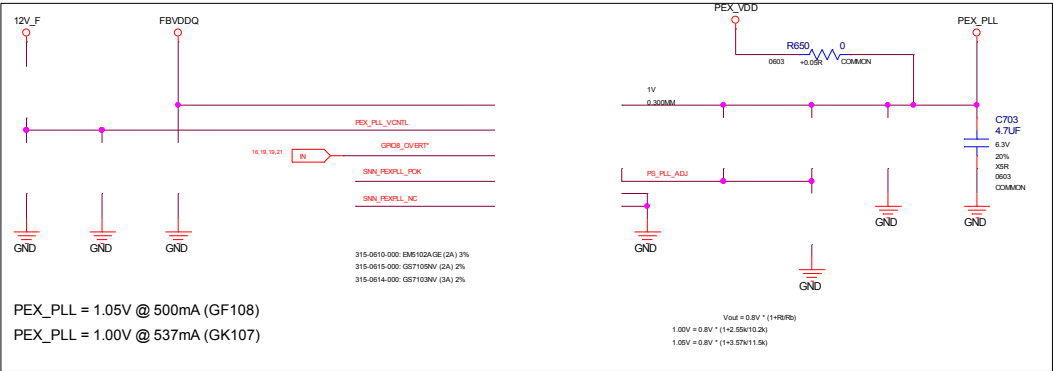
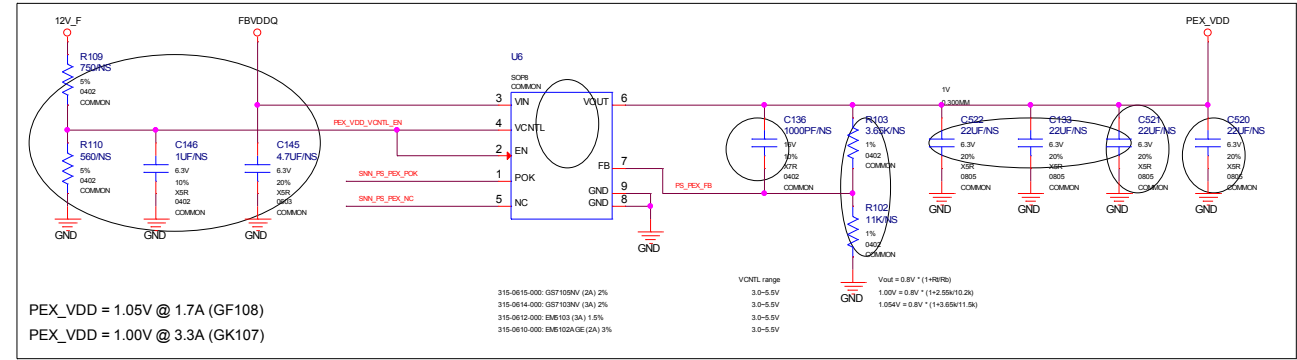
0000	5.1K to GND	1000	5.1K to VCC
0001	10K to GND	1001	10K to VCC
0010	15K to GND	1010	15K to VCC
0011	20K to GND	1011	20K to VCC
0100	24.9K to GND	1100	24.9K to VCC
0101	30.1K to GND	1101	30.1K to VCC
0110	34.8K to GND	1110	34.8K to VCC
0111	45.3K to GND	1111	45.3K to VCC



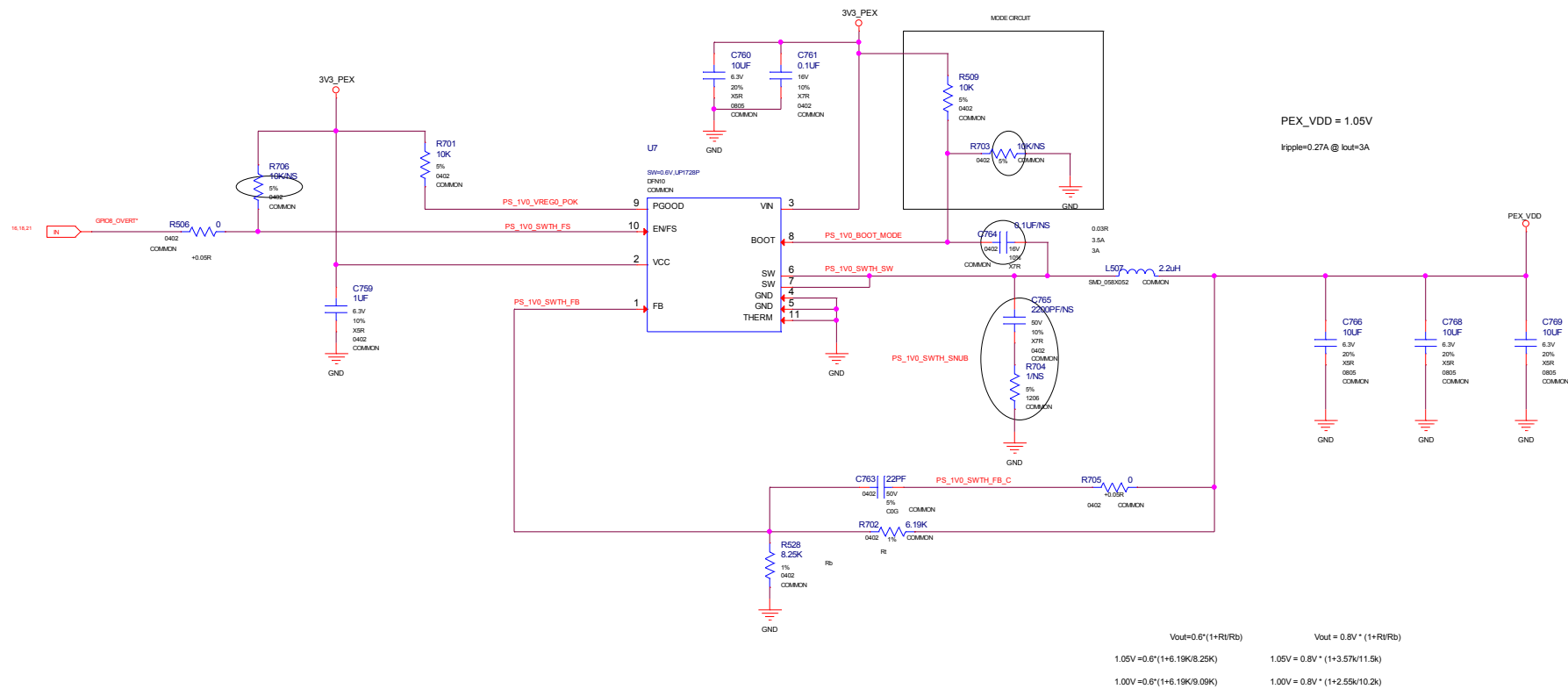
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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY	SANTA CLARA, CA 95050, USA	
PAGE DETAIL	Straps, Thermal, Mechanical	NV_PN	600-12010-BASE-000
		PCB REV	P2010-A00
		BOM REV	A
		PAGE	17 OF 23
		DATE	14-JUN-2011

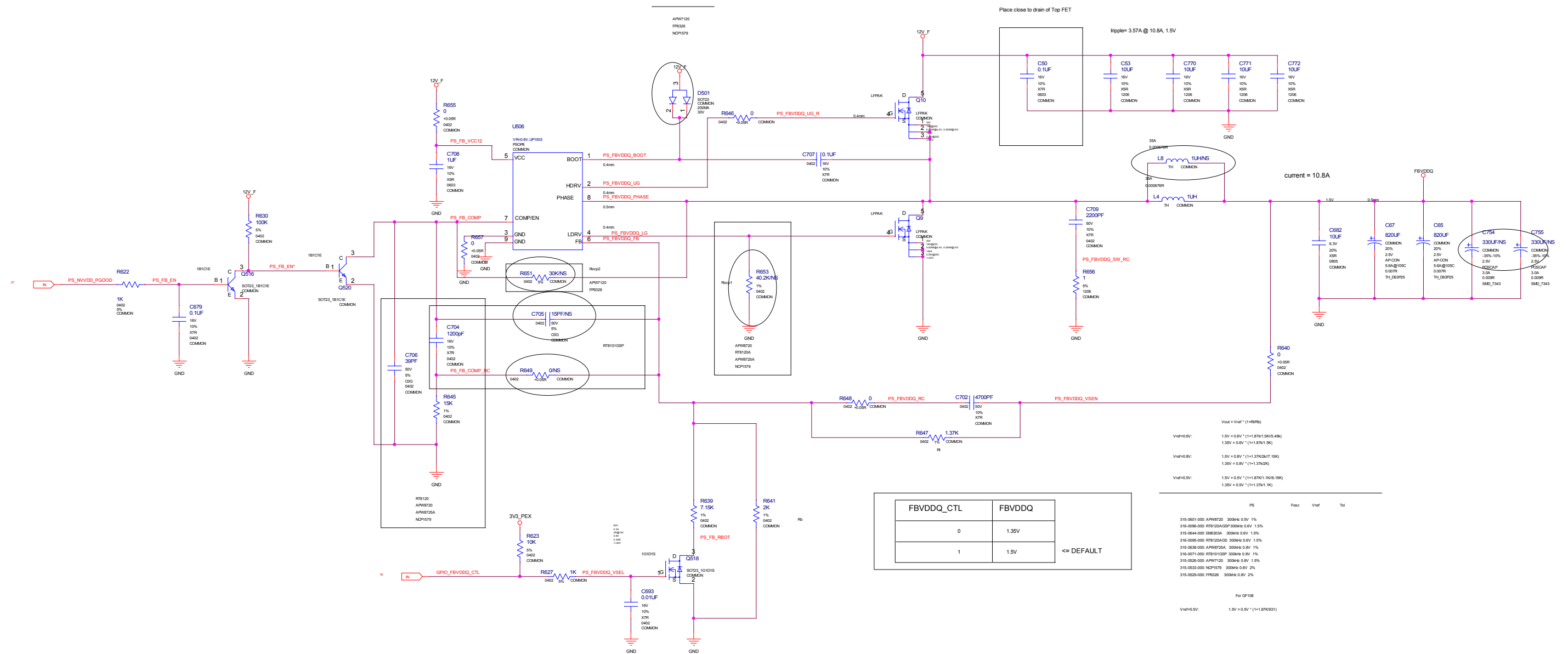
Power Supply I: Misc Power



Power Supply II: PEX_VDD



FBVDDQ




FBVDDQ_CTL	FBVDDQ
0	1.35V
1	1.5V

<= DEFAULT

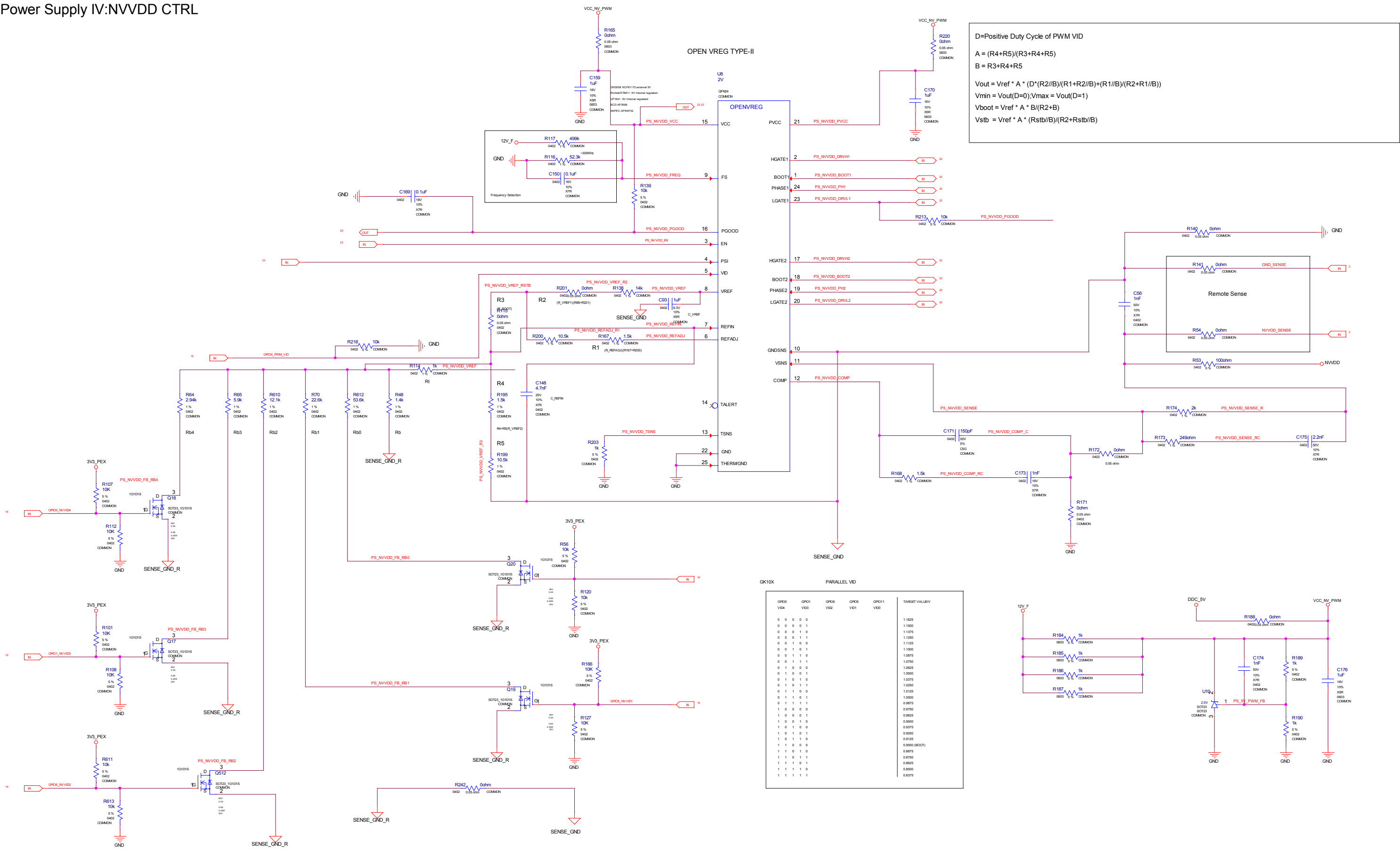
Vref + Vref * (1+187K/1K)			
Vref+0.5V:	1.5V + 0.5V * (1+187K/1K) 2.905 (43K)		
	1.50V + 0.5V * (1+1.87K/1K)		
Vref+0.8V:	1.5V + 0.8V * (1+1.87K/1K) 2.70K (15K)		
	1.50V + 0.8V * (1+1.37K/1K)		
Vref+0.5V:	1.5V + 0.5V * (1+1.87K/1K) 1.90K (19K)		
	1.50V + 0.5V * (1+1.3K/1K)		
PS			
	Fosc	Vref	Tol
153-0001-000: AFW6720	300KHz 0.5V	1%	
153-0096-000: RT8 120AGP	300KHz 0.6V	1.5%	
153-0044-000: IM825A	300KHz 0.5V	1%	
153-0095-000: RT8 120AGS	300KHz 0.6V	1.5%	
153-0038-000: AFW6725A	300KHz 0.8V	1%	
153-0071-000: RT8 151GSP	300KHz 0.8V	1%	
153-0036-000: AFW6710	300KHz 0.5V	1.5%	
153-0533-000: MPX1579	300KHz 0.8V	2%	
153-0529-000: PFC628	300KHz 0.8V	2%	
For CF108			
Vref+0.5V:	1.5V + 0.5V * (1+187K/1K)		

ALL MEDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, INSTRUCTIONS, LAYOUTS, PROOF SHEETS, COLOR SEPARATES, PLATES, PRINTS, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS". THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

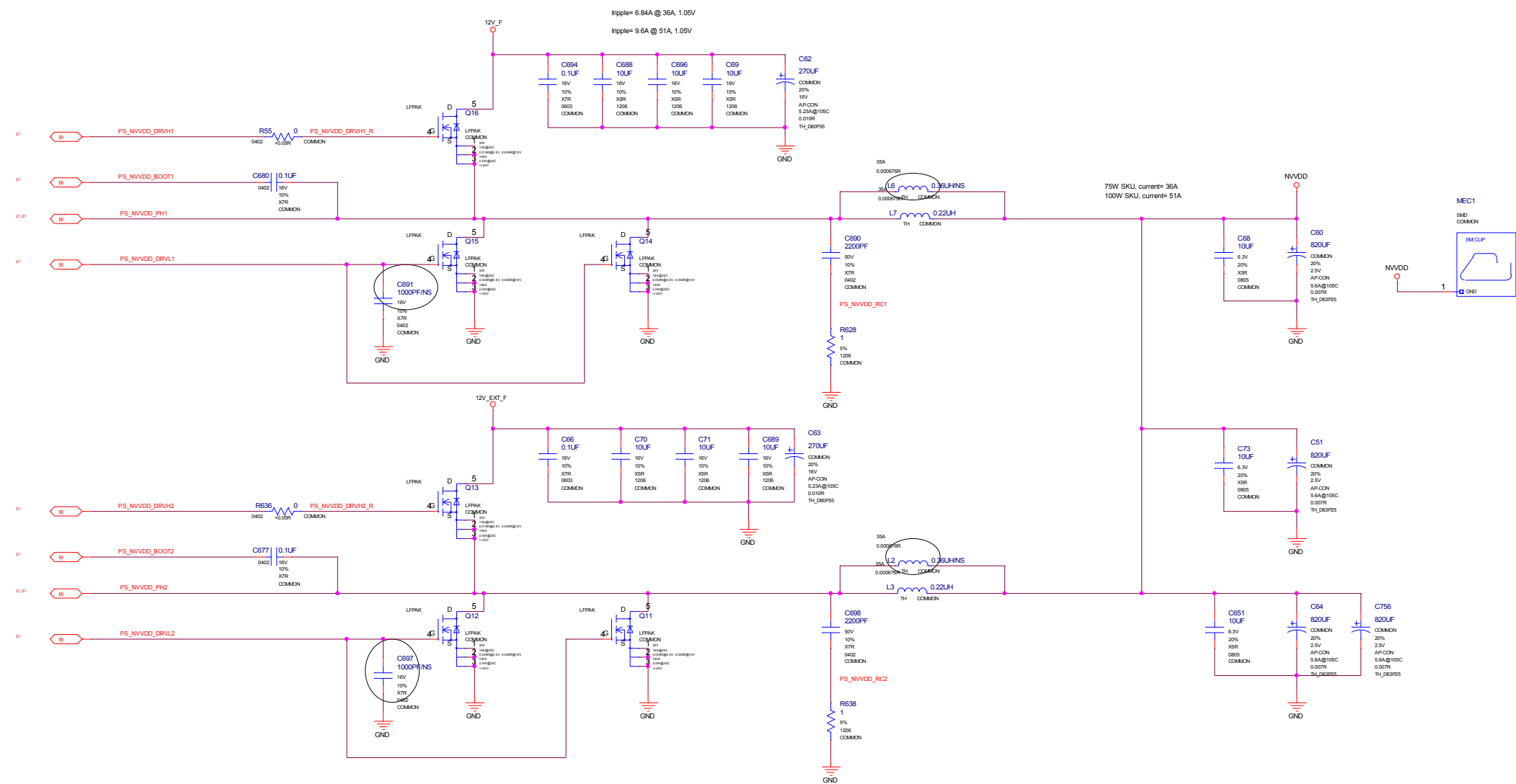
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY
PAGE DETAIL	FBVDDQ

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NV_PN	600-12010-BASE-000		
PCB REV	P2010-A00	PAGE	20 OF 23
ROM REV	A	DATE	14-JUN-2011

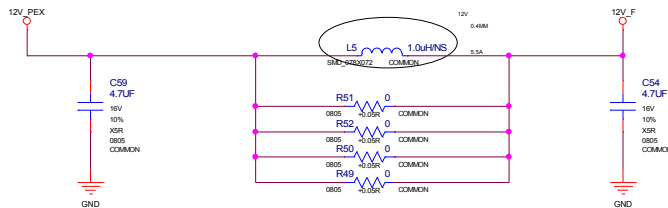
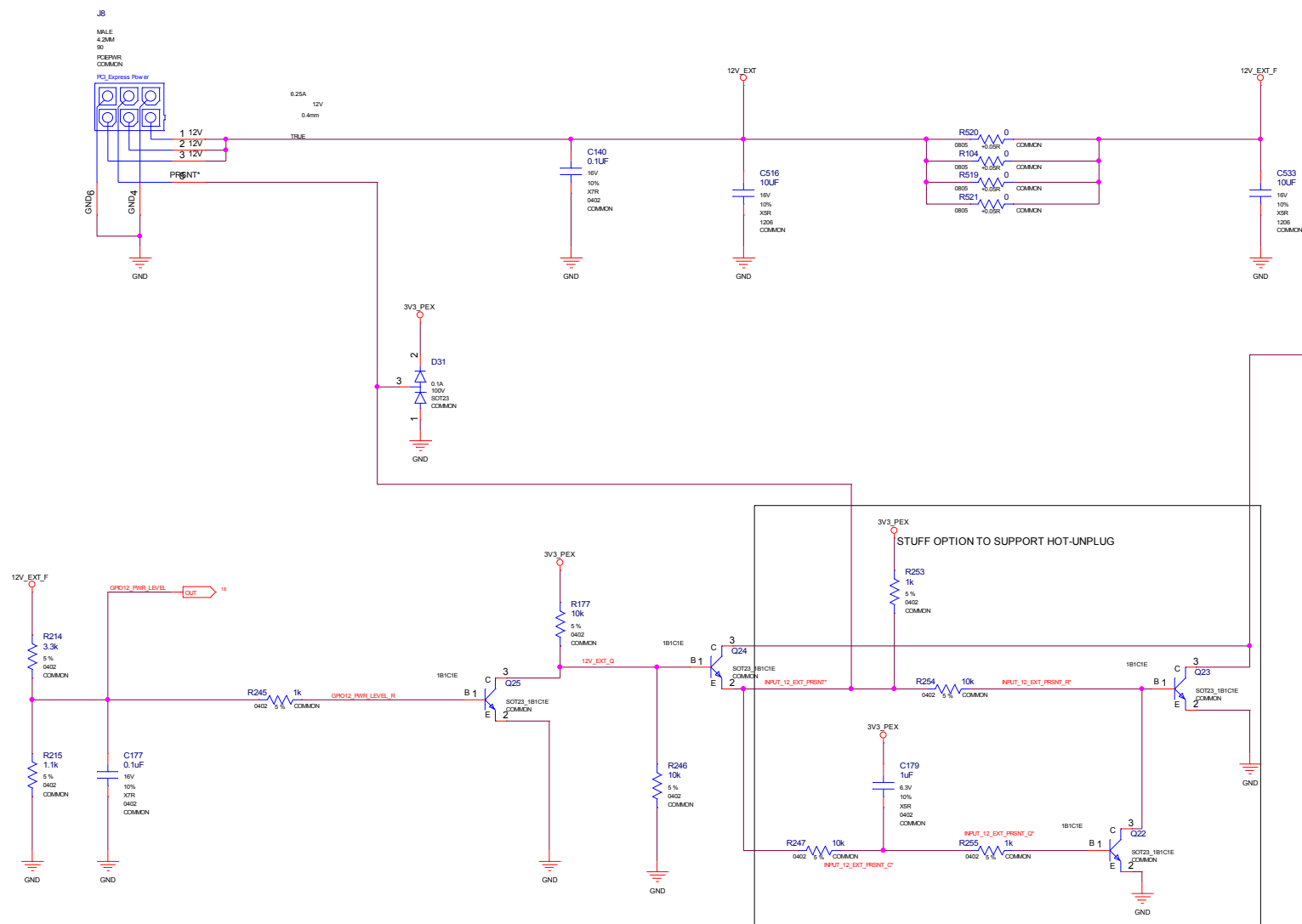
Power Supply IV:NVVDD CTRL



NVVDD MOS



12V EXT / 12V PEX Power Select Circuit



for 75W SKU without 12_EXT

