

P1071: GF108, 1024MB x16 DDR3, DVI+HDMI+VGA

V230 1.6 sch modify list

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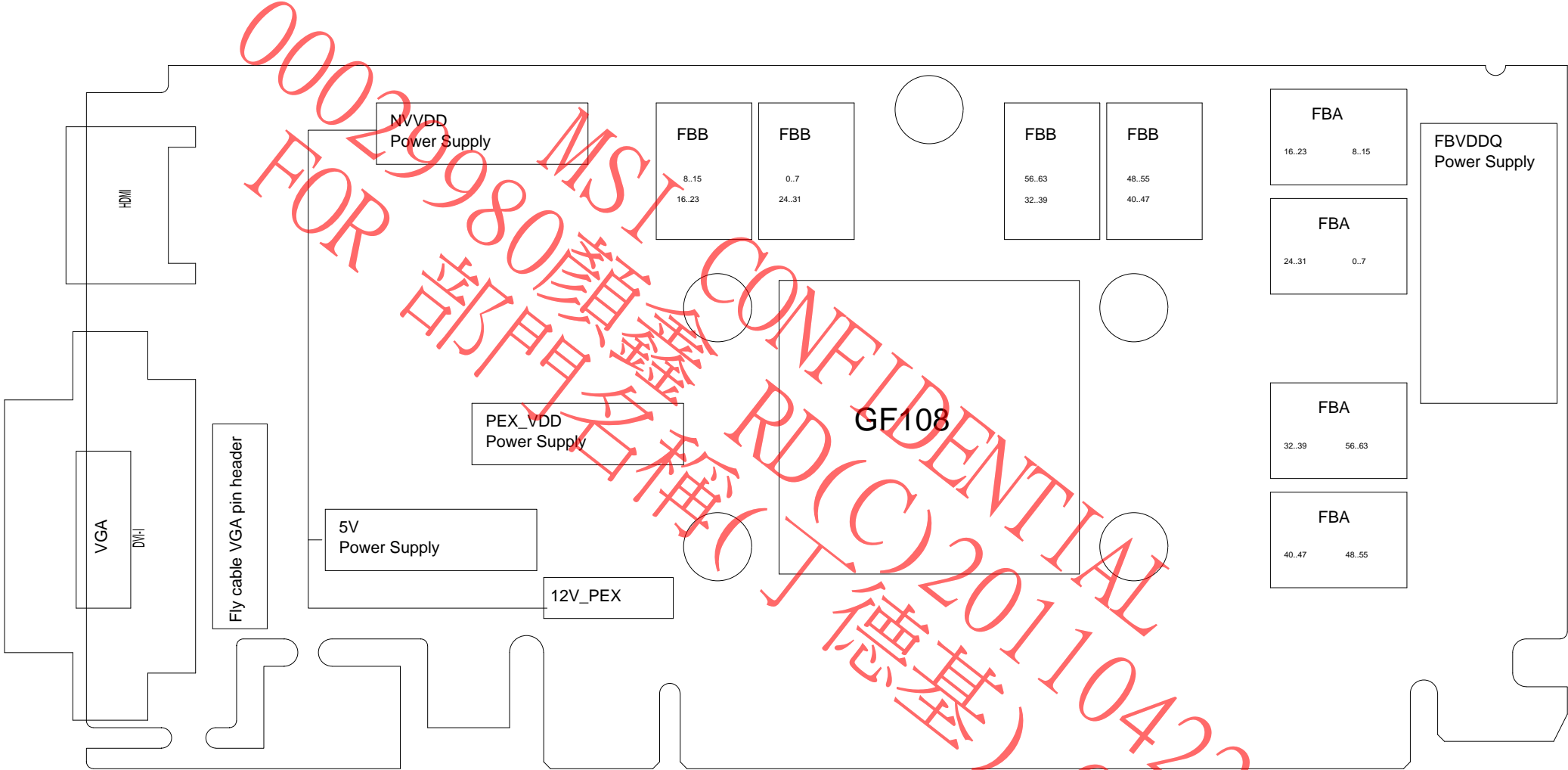
REV	VARIANT	NVPIN	ASSEMBLY
B	BASE	600-11071-BASE-SCH	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
1	SKU0001	600-11071-0001-100	GF108-300-A1 625/1250/900MHz 1024MB/128bit DDR3, DVI-CL+HDMI+VGA
2	SKU0002	600-11071-0002-100	GF108-300-A1 650/1300/900MHz 1024MB/128bit DDR3, DVI-CL+HDMI+VGA
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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Overview

NVIDIA CORPORATION			
2701 SAN TOMAS EXPRESSWAY			
SANTA CLARA, CA 95050, USA			
NV_PN	600-11071-BASE-SCH	PAGE	
PCB REV	P1071-A01	DATE	01-APR-2010
BOM REV	A		

Block Diagram

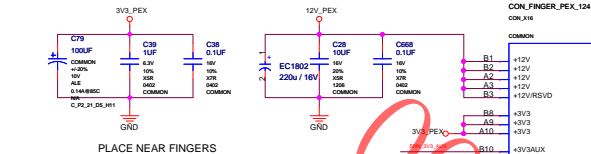


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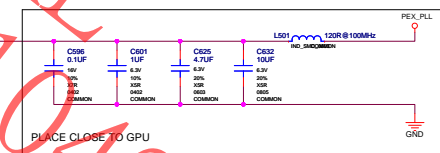
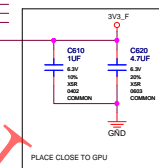
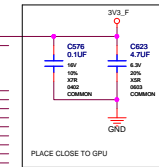
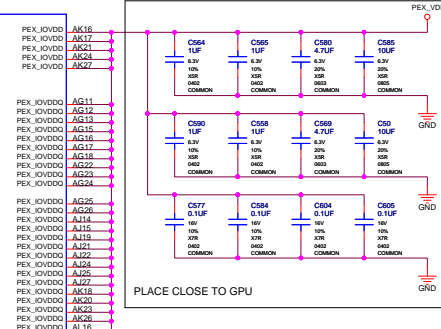
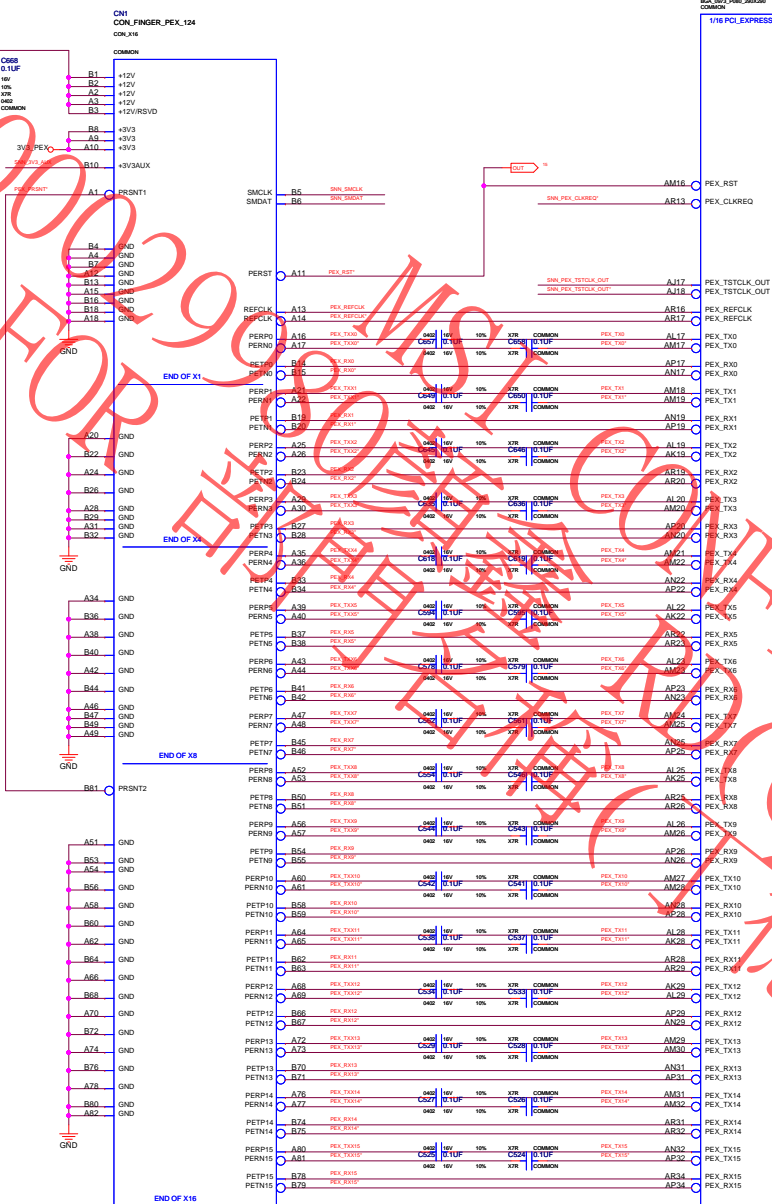
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY; COMMON & NO STUFF ASSEMBLY NOTES AND BOARD NOT FINAL
PAGE DETAIL	Board Block Diagram

NVIDIA CORPORATION			
2701 SAN TOMAS EXPRESSWAY			
SANTA CLARA, CA 95050, USA			
NV_PN	600-11071-BASE-SCH		
PCB REV	P1071-A01	PAGE	
BOX REV	A	DATE	01-APR-2010

PCI Express Interface



Net Name		DIFF_PAIR	CRITICAL	IMPEDANCE
IN	PE1_700	PE1_700	1	10000
IN	PE1_701	PE1_701	1	10000
IN	PE1_702	PE1_702	1	10000
IN	PE1_703	PE1_703	1	10000
IN	PE1_704	PE1_704	1	10000
IN	PE1_705	PE1_705	1	10000
IN	PE1_706	PE1_706	1	10000
IN	PE1_707	PE1_707	1	10000
IN	PE1_708	PE1_708	1	10000
IN	PE1_709	PE1_709	1	10000
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IN	PE1_714	PE1_714	1	10000
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IN	PE1_716	PE1_716	1	10000
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IN	PE1_718	PE1_718	1	10000
IN	PE1_719	PE1_719	1	10000
IN	PE1_720	PE1_720	1	10000
IN	PE1_721	PE1_721	1	10000
IN	PE1_722	PE1_722	1	10000
IN	PE1_723	PE1_723	1	10000
IN	PE1_724	PE1_724	1	10000
IN	PE1_725	PE1_725	1	10000
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IN	PE1_728	PE1_728	1	10000
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IN	PE1_731	PE1_731	1	10000
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IN	PE1_734	PE1_734	1	10000
IN	PE1_735	PE1_735	1	10000
IN	PE1_736	PE1_736	1	10000
IN	PE1_737	PE1_737	1	10000
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IN	PE1_956	PE1_956	1	10000
IN				



Net Name		MIN_WIDTH	VOLTAGE	MAX_CURRENT
IN	PEX_P0INT*	120u		
IN	PEX_TERM*	120u		
IN	GPU_TESTMODE	120u		
IN	PEX_PLVDD	120u	1.80V	0.145A

NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA
NV_PN 600-11071-BASE-SCH



GPU Frame Buffer

G10

SDA, DQ7, FBA, 2K0300

COMMON

276 FBA

FBA, D0

FBA, D1

FBA, D2

FBA, D3

FBA, D4

FBA, D5

FBA, D6

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FBA, D303

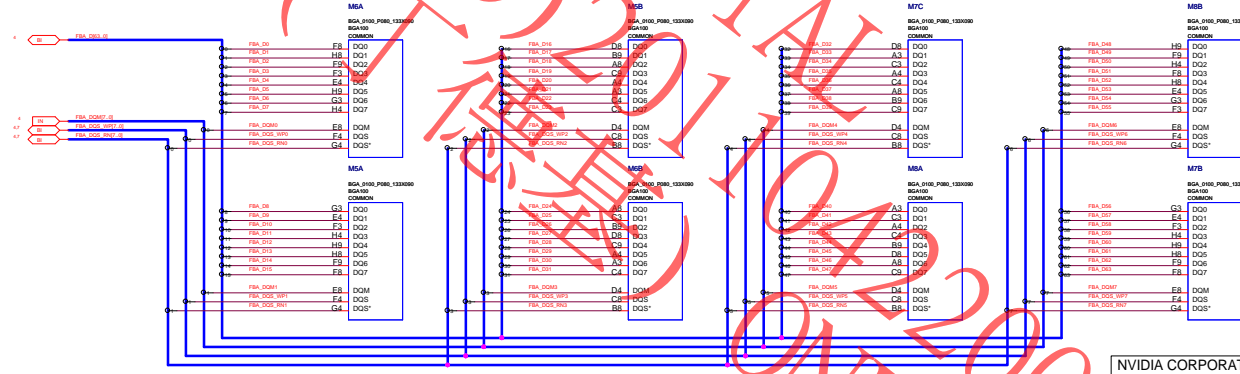
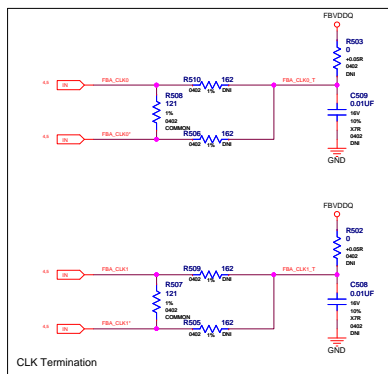
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FBA Partition

	Net Name	MIN_WIDTH	VOLTAGE	MAX_CURRENT
N1	FBA_CLK0_T		0.75V	
N1	FBA_CLK0_T		0.75V	
N1	FBA_VREF	138kΩ		
N1	FBA_Z00	138kΩ		
N1	FBA_Z01	138kΩ		
N1	FBA_Z02	138kΩ		
N1	FBA_Z03	138kΩ		



CMD Mapping		
CMD	<0.3%	<0.6%
CMD0	C50*	
CMD1		
CMD2	C00T	
CMD3	C4E	
CMD4		
CMD5	R2T	R2T
CMD6	A8	A8
CMD7	A2	A2
CMD8	A3	A2
CMD9	A2	A5
CMD10	A4	A4
CMD11	A1	A1
CMD12	B40	B40
CMD13	W6*	W6*
CMD14		
CMD15	C45*	C45*
CMD16	C5P	C5P
CMD17		
CMD18		
CMD19		
CMD20	A13	A13
CMD21	A8	A8
CMD22	A6	A6
CMD23	A11	A11
CMD24	A5	A5
CMD25	A2	A3
CMD26	B42	B42
CMD27	B41	B41
CMD28	A12	A12
CMD29	A13	A13
CMD30	B45*	B45*
CMD31		



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	FBA Partition

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BOM REV	A	DATE	01-APR-2010

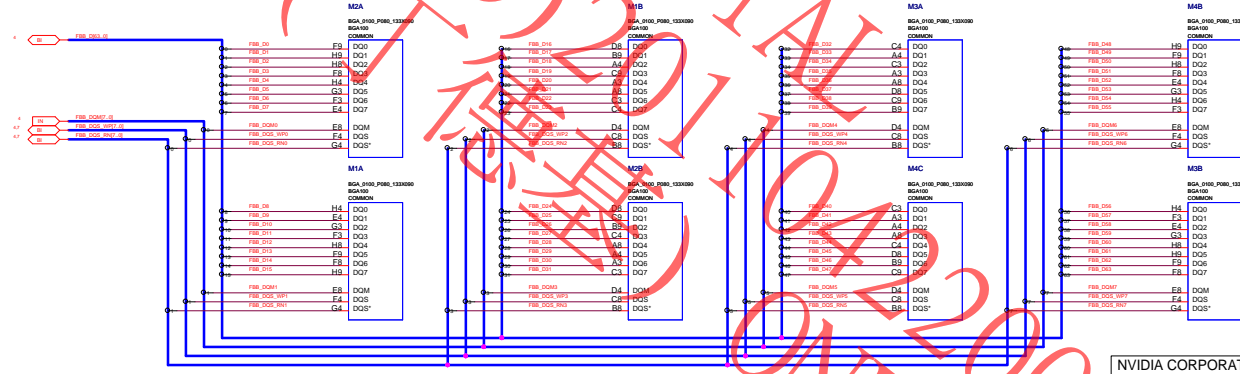
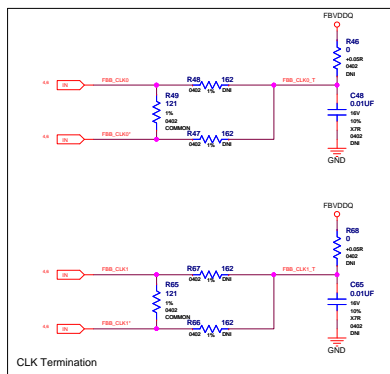
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FBB Partition

Net Name		MIN_WIDTH	VOLTAGE	MAX_CURRENT
IN	FBS_CLK0_T		0.75V	
IN	FBS_CLK0_T		0.75V	
IN	FBS_VREF0	1.080V		
IN	FBS_VREF1	1.080V		
IN	FBS_Z01	1.080V		
IN	FBS_Z01	1.080V		
IN	FBS_Z02	1.080V		
IN	FBS_Z03	1.080V		



CMD Mapping		
CMD	$\leq 31\%$	$\leq 63\%$
CMD0	CMD	
CMD1		
CMD2	CMD	
CMD3	CMD	
CMD4		
CMD5	SET	SET
CMD6	A0	A0
CMD7	A2	A2
CMD8	A3	A2
CMD9	A4	A2
CMD10	A1	A1
CMD11		
CMD12	BAG	BAG
CMD13	W0	W0
CMD14		
CMD15	CAP	CAP
CMD16		
CMD17		
CMD18		CMD
CMD19		CMD
CMD20	A13	A13
CMD21	A8	A8
CMD22	A6	A6
CMD23	A11	A11
CMD24	A5	A5
CMD25	A3	A3
CMD26	BAG	BAG
CMD27	BAG	BAG
CMD28	A12	A12
CMD29	A10	A10
CMD30	RAS	RAS



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	FBB Partition

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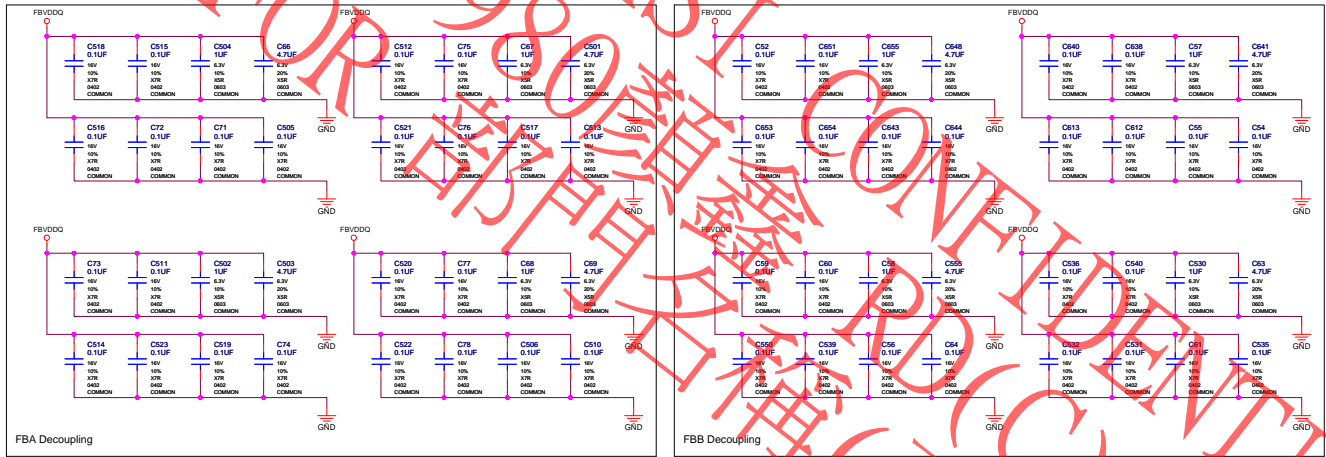
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BOM REV	A
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Memory Decoupling



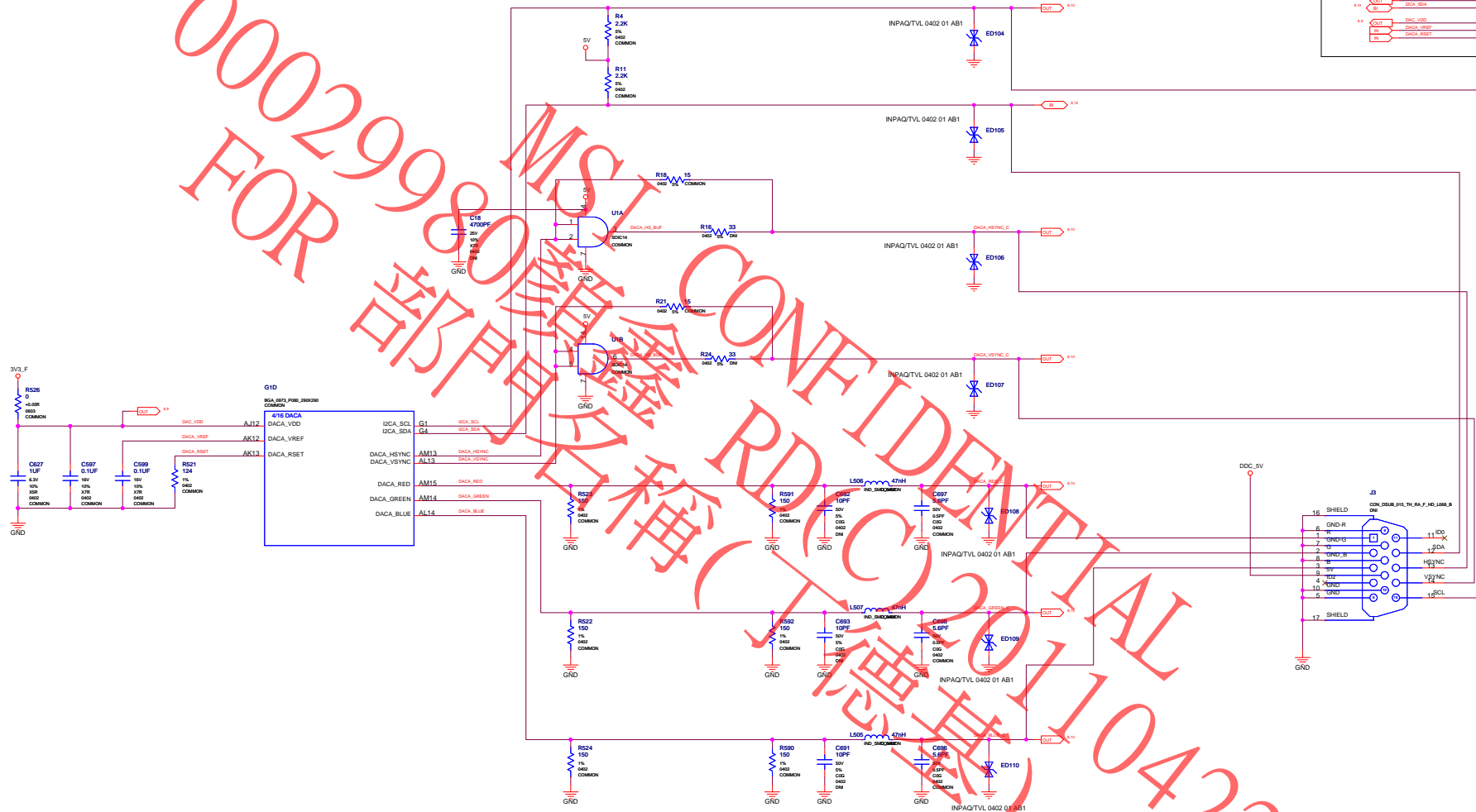
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FBA_DQS_VDDQ_1	FBA_DQS_1	+	NOSET	
FBA_DQS_VDDQ_2	FBA_DQS_2	+	NOSET	
FBA_DQS_VDDQ_3	FBA_DQS_3	+	NOSET	
FBA_DQS_VDDQ_4	FBA_DQS_4	+	NOSET	
FBA_DQS_VDDQ_5	FBA_DQS_5	+	NOSET	
FBA_DQS_VDDQ_6	FBA_DQS_6	+	NOSET	
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FBA_DQS_VDDQ_8	FBA_DQS_8	+	NOSET	
FBA_DQS_VDDQ_9	FBA_DQS_9	+	NOSET	
FBA_DQS_VDDQ_10	FBA_DQS_10	+	NOSET	
FBA_DQS_VDDQ_11	FBA_DQS_11	+	NOSET	
FBA_DQS_VDDQ_12	FBA_DQS_12	+	NOSET	
FBA_DQS_VDDQ_13	FBA_DQS_13	+	NOSET	
FBA_DQS_VDDQ_14	FBA_DQS_14	+	NOSET	
FBA_DQS_VDDQ_15	FBA_DQS_15	+	NOSET	
FBA_DQS_VDDQ_16	FBA_DQS_16	+	NOSET	
FBA_DQS_VDDQ_17	FBA_DQS_17	+	NOSET	
FBA_DQS_VDDQ_18	FBA_DQS_18	+	NOSET	
FBA_DQS_VDDQ_19	FBA_DQS_19	+	NOSET	
FBA_DQS_VDDQ_20	FBA_DQS_20	+	NOSET	
FBA_DQS_VDDQ_21	FBA_DQS_21	+	NOSET	
FBA_DQS_VDDQ_22	FBA_DQS_22	+	NOSET	
FBA_DQS_VDDQ_23	FBA_DQS_23	+	NOSET	
FBA_DQS_VDDQ_24	FBA_DQS_24	+	NOSET	
FBA_DQS_VDDQ_25	FBA_DQS_25	+	NOSET	
FBA_DQS_VDDQ_26	FBA_DQS_26	+	NOSET	
FBA_DQS_VDDQ_27	FBA_DQS_27	+	NOSET	
FBA_DQS_VDDQ_28	FBA_DQS_28	+	NOSET	
FBA_DQS_VDDQ_29	FBA_DQS_29	+	NOSET	
FBA_DQS_VDDQ_30	FBA_DQS_30	+	NOSET	
FBA_DQS_VDDQ_31	FBA_DQS_31	+	NOSET	
FBA_DQS_VDDQ_32	FBA_DQS_32	+	NOSET	
FBA_DQS_VDDQ_33	FBA_DQS_33	+	NOSET	
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FBA_DQS_VDDQ_44	FBA_DQS_44	+	NOSET	
FBA_DQS_VDDQ_45	FBA_DQS_45	+	NOSET	
FBA_DQS_VDDQ_46	FBA_DQS_46	+	NOSET	
FBA_DQS_VDDQ_47	FBA_DQS_47	+	NOSET	
FBA_DQS_VDDQ_48	FBA_DQS_48	+	NOSET	
FBA_DQS_VDDQ_49	FBA_DQS_49	+	NOSET	
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FBA_DQS_VDDQ_67	FBA_DQS_67	+	NOSET	
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FBA_DQS_VDDQ_74	FBA_DQS_74	+	NOSET	
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FBA_DQS_VDDQ_94	FBA_DQS_94	+	NOSET	
FBA_DQS_VDDQ_95	FBA_DQS_95	+	NOSET	
FBA_DQS_VDDQ_96	FBA_DQS_96	+	NOSET	
FBA_DQS_VDDQ_97	FBA_DQS_97	+	NOSET	
FBA_DQS_VDDQ_98	FBA_DQS_98	+	NOSET	
FBA_DQS_VDDQ_99	FBA_DQS_99	+	NOSET	

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BOX REV	A		

DACA VGA



	Net Name	DIFF_PAIR	CRITICAL	IMPEDANCE
	DACA_RED		1	100Ω
0.1V	Q_U17	DACA_RED_C	1	100Ω
	DACA_GREEN		1	100Ω
	DACA_GREEN_C		1	100Ω
	DACA_BLUE		1	100Ω
0.1V	Q_U17	DACA_BLUE_C	1	100Ω
	DACA_PINK		2	100Ω
	DACA_VIS_BUF		2	100Ω
0.1V	Q_U17	DACA_PINK_C	2	100Ω
	DACA_VISNC		2	100Ω
	DACA_VIS_BUF		2	100Ω
0.1V	Q_U17	DACA_VISNC_C	2	100Ω

	Net Name	MIN_WIDTH	VOLTAGE	MAX_CURRENT
	DCA_SDA			
0.1V	Q_U17	DCA_SDA_C		
	DCA_VDD	1.0MIL		
0.1V	Q_U17	DCA_VDD_C	1.0MIL	
	DCA_RESET	1.0MIL		
	DCA_RESET	1.0MIL		

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PAGE DETAIL	DACA VGA

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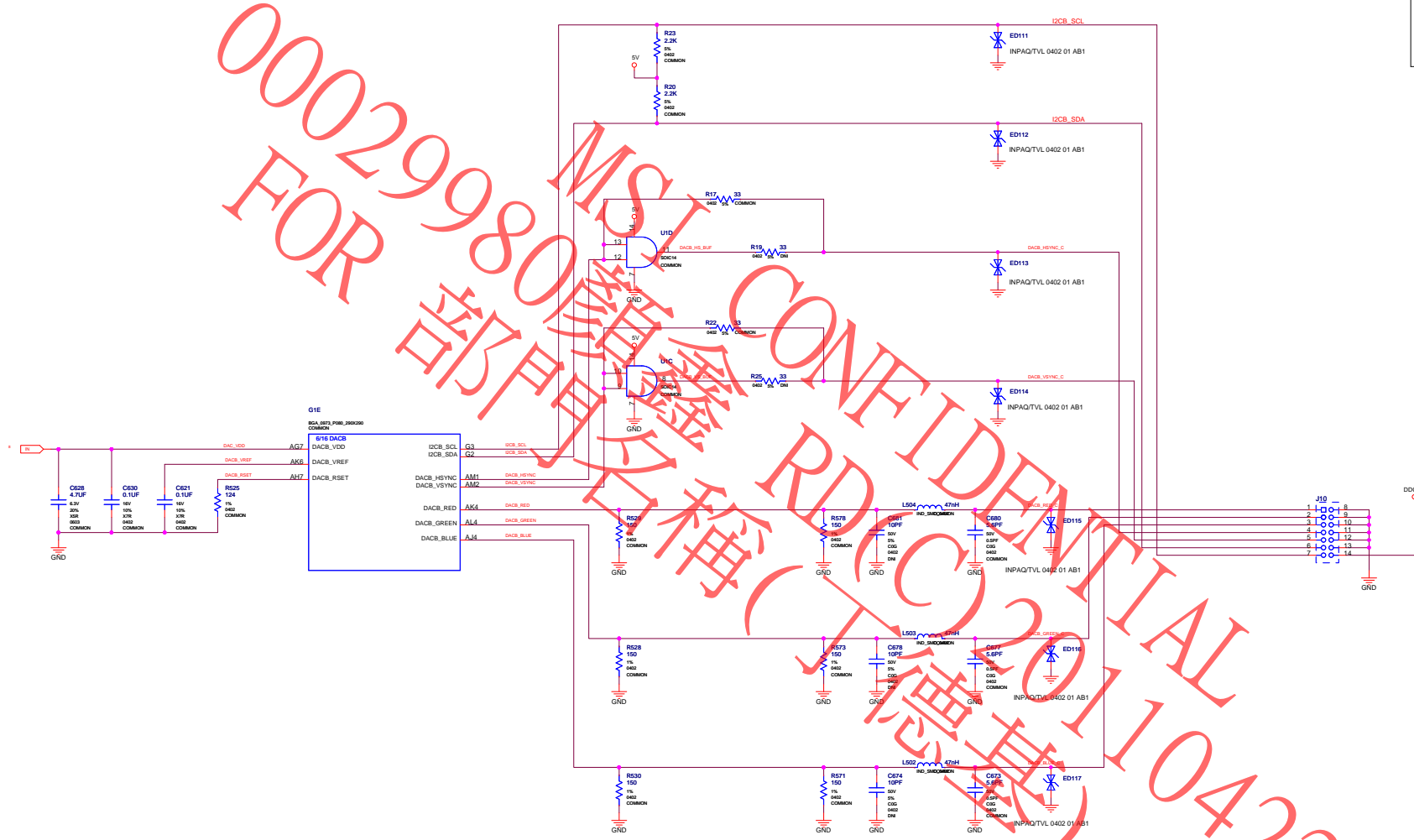
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FGB REV	FGB REV
BOM REV	A

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DACB VGA Header



Net Name	DIFF_PAIR	CRITICAL	IMPEDANCE
10	DACB_RED	1	50OHM
11	DACB_RED_C	1	50OHM
12	DACB_GREEN	1	50OHM
13	DACB_GREEN_C	1	50OHM
14	DACB_BLUE	1	50OHM
15	DACB_BLUE_C	1	50OHM
16	DACB_HSYNC	2	50OHM
17	DACB_HS_RUP	2	50OHM
18	DACB_HSYNC_C	2	50OHM
19	DACB_VSYNC	2	50OHM
20	DACB_VS_RUP	2	50OHM
21	DACB_VSYNC_C	2	50OHM
Net Name	MIN_WIDTH	VOLTAGE	MAX_CURRENT
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23	008 MIL	1.8V	
24	008 MIL	1.8V	
25	008 MIL	1.8V	

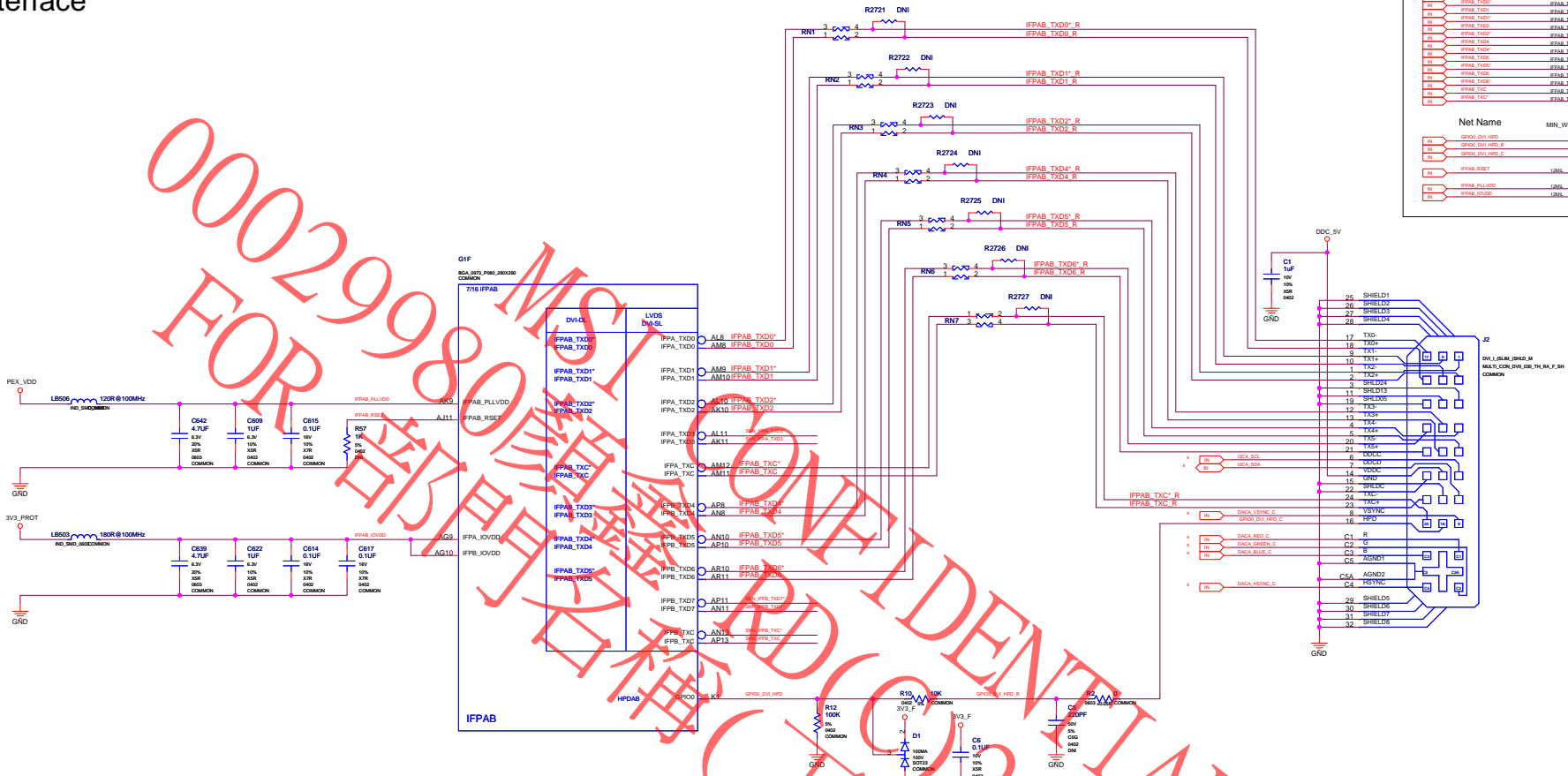
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COMMON

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PAGE DETAIL	DACB VGA Header

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TMDs Interface



Net Name	DIFF_PAIR	CRITICAL	IMPEDANCE
IFPAB_TXD0	IFPAB_TXD0	1	50ohm
IFPAB_TXD0P	IFPAB_TXD0	1	50ohm
IFPAB_TXD1	IFPAB_TXD1	1	50ohm
IFPAB_TXD1P	IFPAB_TXD1	1	50ohm
IFPAB_TXD2	IFPAB_TXD2	1	50ohm
IFPAB_TXD2P	IFPAB_TXD2	1	50ohm
IFPAB_TXD3	IFPAB_TXD3	1	50ohm
IFPAB_TXD3P	IFPAB_TXD3	1	50ohm
IFPAB_TXD4	IFPAB_TXD4	1	50ohm
IFPAB_TXD4P	IFPAB_TXD4	1	50ohm
IFPAB_TXD5	IFPAB_TXD5	1	50ohm
IFPAB_TXD5P	IFPAB_TXD5	1	50ohm
IFPAB_TXD6	IFPAB_TXD6	1	50ohm
IFPAB_TXD6P	IFPAB_TXD6	1	50ohm
IFPAB_TXC	IFPAB_TXC	1	50ohm
IFPAB_TXC	IFPAB_TXC	1	50ohm

Net Name	MIN_WIDTH	VOLTAGE	MAX_CURRENT
GP0D_D0V_HPD			
GP0D_D0V_HPD_R			
GP0D_D0V_HPD_C			
IFPAB_RST	1.000		
IFPAB_PL1VDD	1.000	1.80V	0.100A
IFPAB_TXD0D	1.000	0.9V	0.200A

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ASSEMBLY

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TMDs Interface

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BOOM REV

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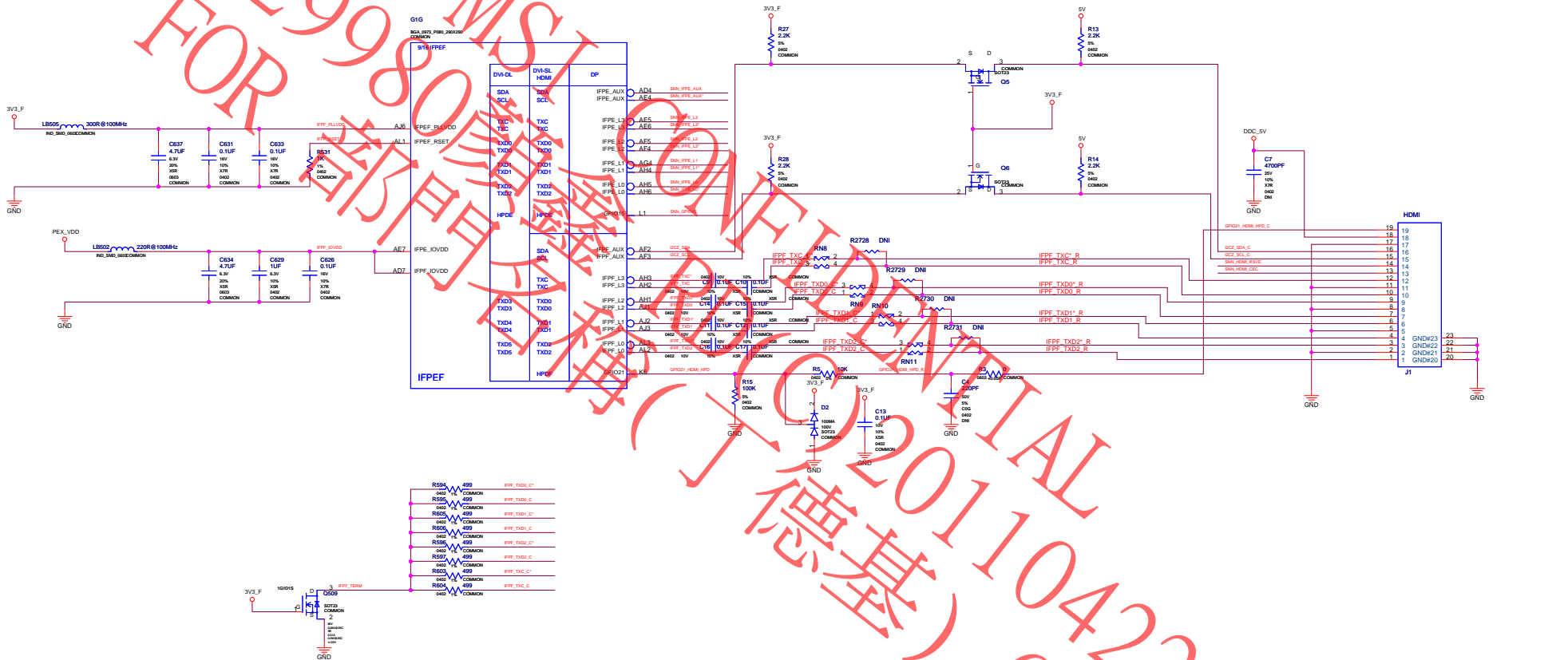
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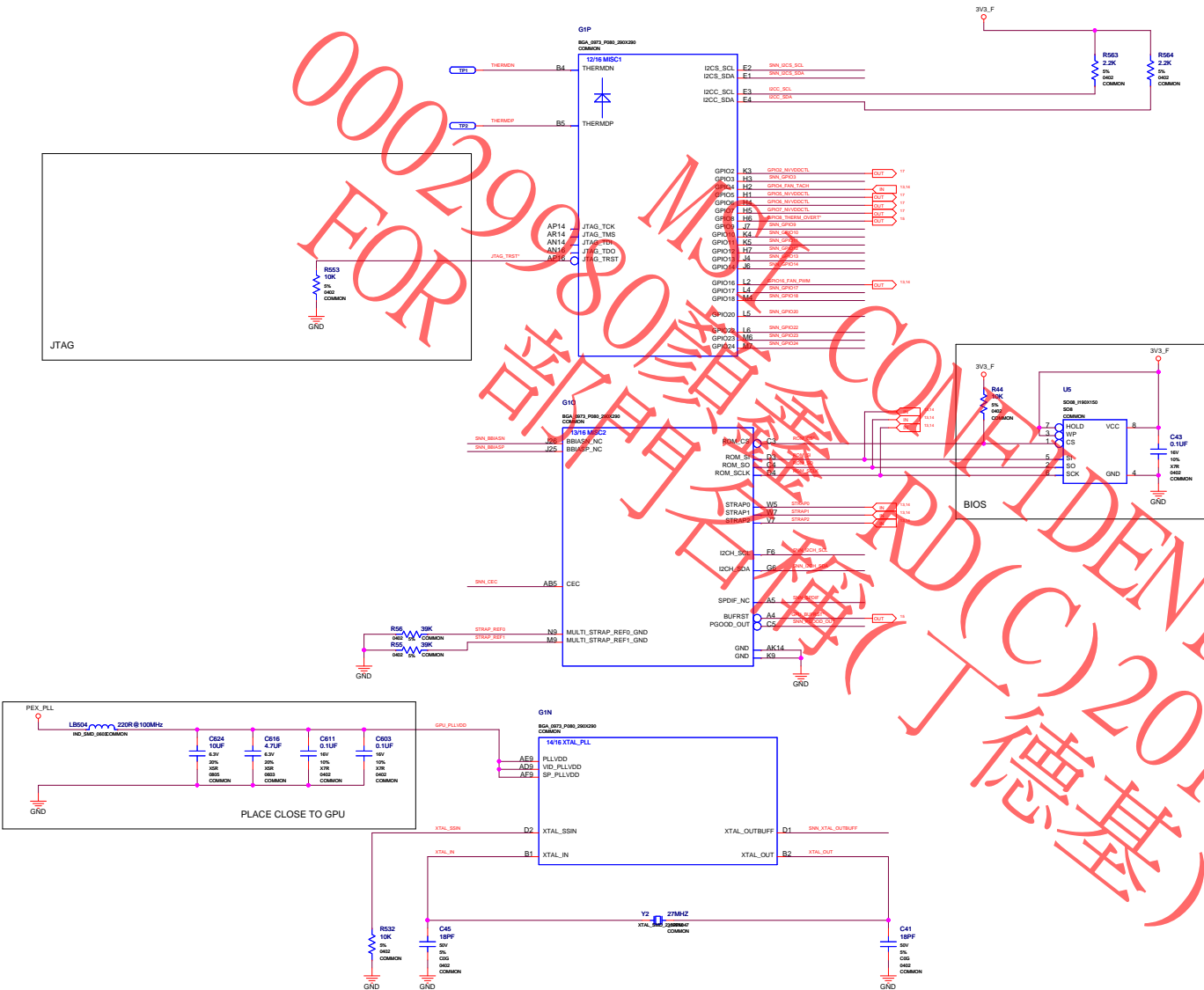


HDMI Interface



Net Name		DIFF_PAIR	CRITICAL	IMPEDANCE
N	FTP_T000	FTP_T000_0	1	50OHM
N	FTP_T000P	FTP_T000P_0	1	50OHM
N	FTP_T001	FTP_T001_0	1	50OHM
N	FTP_T001P	FTP_T001P_0	1	50OHM
N	FTP_T002	FTP_T002_0	1	50OHM
N	FTP_T002P	FTP_T002P_0	1	50OHM
N	FTP_T00	FTP_T00_0	1	50OHM
N	FTP_T00C	FTP_T00C_0	1	50OHM
N	FTP_T00C_0_0	FTP_T00C_0_0	1	50OHM
N	FTP_T00C_0_1	FTP_T00C_0_1	1	50OHM
N	FTP_T00C_0_2	FTP_T00C_0_2	1	50OHM
N	FTP_T00C_0_3	FTP_T00C_0_3	1	50OHM
N	FTP_T00C_0_4	FTP_T00C_0_4	1	50OHM
N	FTP_T00C_0_5	FTP_T00C_0_5	1	50OHM
N	FTP_T00C_0_6	FTP_T00C_0_6	1	50OHM
N	FTP_T00C_0_7	FTP_T00C_0_7	1	50OHM
N	FTP_T00C_0_8	FTP_T00C_0_8	1	50OHM
N	FTP_T00C_0_9	FTP_T00C_0_9	1	50OHM
N	FTP_T00C_0_10	FTP_T00C_0_10	1	50OHM
N	FTP_T00C_0_11	FTP_T00C_0_11	1	50OHM
N	FTP_T00C_0_12	FTP_T00C_0_12	1	50OHM
N	FTP_T00C_0_13	FTP_T00C_0_13	1	50OHM
N	FTP_T00C_0_14	FTP_T00C_0_14	1	50OHM
N	FTP_T00C_0_15	FTP_T00C_0_15	1	50OHM
N	FTP_T00C_0_16	FTP_T00C_0_16	1	50OHM
N	FTP_T00C_0_17	FTP_T00C_0_17	1	50OHM
N	FTP_T00C_0_18	FTP_T00C_0_18	1	50OHM
N	FTP_T00C_0_19	FTP_T00C_0_19	1	50OHM
N	FTP_T00C_0_20	FTP_T00C_0_20	1	50OHM
N	FTP_T00C_0_21	FTP_T00C_0_21	1	50OHM
N	FTP_T00C_0_22	FTP_T00C_0_22	1	50OHM
N	FTP_T00C_0_23	FTP_T00C_0_23	1	50OHM
N	FTP_T00C_0_24	FTP_T00C_0_24	1	50OHM
N	FTP_T00C_0_25	FTP_T00C_0_25	1	50OHM
N	FTP_T00C_0_26	FTP_T00C_0_26	1	50OHM
N	FTP_T00C_0_27	FTP_T00C_0_27	1	50OHM
N	FTP_T00C_0_28	FTP_T00C_0_28	1	50OHM
N	FTP_T00C_0_29	FTP_T00C_0_29	1	50OHM
N	FTP_T00C_0_30	FTP_T00C_0_30	1	50OHM
N	FTP_T00C_0_31	FTP_T00C_0_31	1	50OHM
N	FTP_T00C_0_32	FTP_T00C_0_32	1	50OHM
N	FTP_T00C_0_33	FTP_T00C_0_33	1	50OHM
N	FTP_T00C_0_34	FTP_T00C_0_34	1	50OHM
N	FTP_T00C_0_35	FTP_T00C_0_35	1	50OHM
N	FTP_T00C_0_36	FTP_T00C_0_36	1	50OHM
N	FTP_T00C_0_37	FTP_T00C_0_37	1	50OHM
N	FTP_T00C_0_38	FTP_T00C_0_38	1	50OHM
N	FTP_T00C_0_39	FTP_T00C_0_39	1	50OHM
N	FTP_T00C_0_40	FTP_T00C_0_40	1	50OHM
N	FTP_T00C_0_41	FTP_T00C_0_41	1	50OHM
N	FTP_T00C_0_42	FTP_T00C_0_42	1	50OHM
N	FTP_T00C_0_43	FTP_T00C_0_43	1	50OHM
N	FTP_T00C_0_44	FTP_T00C_0_44	1	50OHM
N	FTP_T00C_0_45	FTP_T00C_0_45	1	50OHM
N	FTP_T00C_0_46	FTP_T00C_0_46	1	50OHM
N	FTP_T00C_0_47	FTP_T00C_0_47	1	50OHM
N	FTP_T00C_0_48	FTP_T00C_0_48	1	50OHM
N	FTP_T00C_0_49	FTP_T00C_0_49	1	50OHM
N	FTP_T00C_0_50	FTP_T00C_0_50	1	50OHM
N	FTP_T00C_0_51	FTP_T00C_0_51	1	50OHM
N	FTP_T00C_0_52	FTP_T00C_0_52	1	50OHM
N	FTP_T00C_0_53	FTP_T00C_0_53	1	50OHM
N	FTP_T00C_0_54	FTP_T00C_0_54	1	50OHM
N	FTP_T00C_0_55	FTP_T00C_0_55	1	50OHM
N	FTP_T00C_0_56	FTP_T00C_0_56	1	50OHM
N	FTP_T00C_0_57	FTP_T00C_0_57	1	50OHM
N	FTP_T00C_0_58	FTP_T00C_0_58	1	50OHM
N	FTP_T00C_0_59	FTP_T00C_0_59	1	50OHM
N	FTP_T00C_0_60	FTP_T00C_0_60	1	50OHM
N	FTP_T00C_0_61	FTP_T00C_0_61	1	50OHM
N	FTP_T00C_0_62	FTP_T00C_0_62	1	50OHM
N	FTP_T00C_0_63	FTP_T00C_0_63	1	50OHM
N	FTP_T00C_0_64	FTP_T00C_0_64	1	50OHM
N	FTP_T00C_0_65	FTP_T00C_0_65	1	50OHM
N	FTP_T00C_0_66	FTP_T00C_0_66	1	50OHM
N	FTP_T00C_0_67	FTP_T00C_0_67	1	50OHM
N	FTP_T00C_0_68	FTP_T00C_0_68	1	50OHM
N	FTP_T00C_0_69	FTP_T00C_0_69	1	50OHM
N	FTP_T00C_0_70	FTP_T00C_0_70	1	50OHM
N	FTP_T00C_0_71	FTP_T00C_0_71	1	50OHM
N	FTP_T00C_0_72	FTP_T00C_0_72	1	50OHM
N	FTP_T00C_0_73	FTP_T00C_0_73	1	50OHM
N	FTP_T00C_0_74	FTP_T00C_0_74	1	50OHM
N	FTP_T00C_0_75	FTP_T00C_0_75	1	50OHM
N	FTP_T00C_0_76	FTP_T00C_0_76	1	50OHM
N	FTP_T00C_0_77	FTP_T00C_0_77	1	50OHM
N	FTP_T00C_0_78	FTP_T00C_0_78	1	50OHM
N	FTP_T00C_0_79	FTP_T00C_0_79	1	50OHM
N	FTP_T00C_0_80	FTP_T00C_0_80	1	50OHM
N	FTP_T00C_0_81	FTP_T00C_0_81	1	50OHM
N	FTP_T00C_0_82	FTP_T00C_0_82	1	50OHM
N	FTP_T00C_0_83	FTP_T00C_0_83	1	50OHM
N	FTP_T00C_0_84	FTP_T00C_0_84	1	50OHM
N	FTP_T00C_0_85	FTP_T00C_0_85	1	50OHM
N	FTP_T00C_0_86	FTP_T00C_0_86	1	50OHM
N	FTP_T00C_0_87	FTP_T00C_0_87	1	50OHM
N	FTP_T00C_0_88	FTP_T00C_0_88	1	50OHM
N	FTP_T00C_0_89	FTP_T00C_0_89	1	50OHM
N	FTP_T00C_0_90	FTP_T00C_0_90	1	50OHM
N	FTP_T00C_0_91	FTP_T00C_0_91	1	50OHM
N	FTP_T00C_0_92	FTP_T00C_0_92	1	50OHM
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N	FTP_T00C_0_96	FTP_T00C_0_96	1	50OHM
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N	FTP_T00C_0_99	FTP_T00C_0_99	1	50OHM
N	FTP_T00C_1_0	FTP_T00C_1_0	1	50OHM
N	FTP_T00C_1_1	FTP_T00C_1_1	1	50OHM
N	FTP_T00C_1_2	FTP_T00C_1_2	1	50OHM
N	FTP_T00C_1_3	FTP_T00C_1_3	1	50OHM
N	FTP_T00C_1_4	FTP_T00C_1_4	1	50OHM
N	FTP_T00C_1_5	FTP_T00C_1_5	1	50OHM
N	FTP_T00C_1_6	FTP_T00C_1_6	1	50OHM
N	FTP_T00C_1_7	FTP_T00C_1_7	1	50OHM
N	FTP_T00C_1_8	FTP_T00C_1_8	1	50OHM
N	FTP_T00C_1_9	FTP_T00C_1_9	1	50OHM
N	FTP_T00C_1_10	FTP_T00C_1_10	1	50OHM
N	FTP_T00C_1_11	FTP_T00C_1_11	1	50OHM
N	FTP_T00C_1_12	FTP_T00C_1_12	1	50OHM
N	FTP_T00C_1_13	FTP_T00C_1_13	1	50OHM
N	FTP_T00C_1_14	FTP_T00C_1_14	1	50OHM
N	FTP_T00C_1_15	FTP_T00C_1_15	1	50OHM
N	FTP_T00C_1_16	FTP_T00C_1_16	1	50OHM
N	FTP_T00C_1_17	FTP_T00C_1_17	1	50OHM
N	FTP_T00C_1_18	FTP_T00C_1_18	1	50OHM
N	FTP_T00C_1_19	FTP_T00C_1_19	1	50OHM
N	FTP_T00C_1_20	FTP_T00C_1_20	1	50OHM
N	FTP_T00C_1_21	FTP_T00C_1_21	1	50OHM
N	FTP_T00C_1_22	FTP_T00C_1_22	1	50OHM
N	FTP_T00C_1_23	FTP_T00C_1_23	1	50OHM
N	FTP_T00C_1_24	FTP_T00C_1_24	1	50OHM
N	FTP_T00C_1_25	FTP_T00C_1_25	1	50OHM
N	FTP_T00C_1_26	FTP_T00C_1_26	1	50OHM
N	FTP_T00C_1_27	FTP_T00C_1_27	1	50OHM
N	FTP_T00C_1_28	FTP_T00C_1_28	1	50OHM
N	FTP_T00C_1_29	FTP_T00C_1_29	1	50OHM
N	FTP_T00C_1_30	FTP_T00C_1_30	1	50OHM
N	FTP_T00C_1_31	FTP_T00C_1_31	1	50OHM
N	FTP_T00C_1_32	FTP_T00C_1_32	1	50OHM
N	FTP_T00C_1_33	FTP_T00C_1_33	1	50OHM
N	FTP_T00C_1_34	FTP_T00C_1_34	1	50OHM
N	FTP_T00C_1_35	FTP_T00C_1_35	1	50OHM
N	FTP_T00C_1_36	FTP_T00C_1_36	1	50OHM
N	FTP_T00C_1_37	FTP_T00C_1_37	1	50OHM
N	FTP_T00C_1_38	FTP_T00C_1_38	1	50OHM
N	FTP_T00C_1_39	FTP_T00C_1_39	1	50OHM
N	FTP_T00C_1_40	FTP_T00C_1_40	1	50OHM
N	FTP_T00C_1_41	FTP_T00C_1_41	1	50OHM
N	FTP_T00C_1_42	FTP_T00C_1_42	1	50OHM
N	FTP_T00C_1_43	FTP_T00C_1_43	1	50OHM
N	FTP_T00C_1_44	FTP_T00C_1_44	1	50OHM
N	FTP_T00C_1_45	FTP_T00C_1_45	1	50OHM
N	FTP_T00C_1_46	FTP_T00C_1_46	1	50OHM
N	FTP_T00C_1_47	FTP_T00C_1_47	1	50OHM
N	FTP_T00C_1_48	FTP_T00C_1_48	1	50OHM
N	FTP_T00C_1_49	FTP_T00C_1_49	1	50OHM
N	FTP_T00C_1_50	FTP_T00C_1_50	1	50OHM
N	FTP_T00C_1_51	FTP_T00C_1_51	1	50OHM
N	FTP_T00C_1_52	FTP_T00C_1_52	1	50OHM
N	FTP_T00C_1_53	FTP_T00C_1_53	1	50OHM
N	FTP_T00C_1_54	FTP_T00C_1_54	1	50OHM
N	FTP_T00C_1_55	FTP_T00C_1_55	1	50OHM
N	FTP_T00C_1_56	FTP_T00C_1_56	1	50OHM
N	FTP_T00C_1_57	FTP_T00C_1_57	1	50OHM
N	FTP_T00C_1_58	FTP_T00C_1_58	1	50OHM
N	FTP_T00C_1_59	FTP_T00C_1_59	1	50OHM
N	FTP_T00C_1_60	FTP_T00C_1_60	1	50OHM
N	FTP_T00C_1_61	FTP_T00C_1_61	1	50OHM
N	FTP_T00C_1_62	FTP_T00C_1_62	1	50OHM
N	FTP_T00C_1_63	FTP_T00C_1_63	1	50OHM
N	FTP_T00C_1_64	FTP_T00C_1_64	1	50OHM
N	FTP_T00C_1_65	FTP_T00C_1_65	1	50OHM
N	FTP_T00C_1_66	FTP_T00C_1_66	1	50OHM
N	FTP_T00C_1_67	FTP_T00C_1_67	1	50OHM
N	FTP_T00C_1_68	FTP_T00C_1_68	1	50OHM
N	FTP_T00C_1_69	FTP_T00C_1_69	1	50OHM
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N	FTP_T00C_1_74	FTP_T00C_1_74	1	50OHM
N	FTP_T00C_1_75	FTP_T00C_1_75	1	50OHM
N	FTP_T00C_1_76	FTP_T00C_1_76	1	50OHM
N	FTP_T00C_1_77	FTP_T00C_1_77	1	50OHM
N	FTP_T00C_1_78	FTP_T00C_1_78	1	50OHM
N	FTP_T00C_1_79	FTP_T00C_1_79	1	50OHM
N	FTP_T00C_1_80	FTP_T00C_1_80	1	50OHM
N	FTP_T00C_1_81	FTP_T00C_1_81	1	50OHM
N	FTP_T00C_1_82	FTP_T00C_1_82	1	50OHM
N	FTP_T00C_1_83	FTP_T00C_1_83	1	50OHM
N	FTP_T00C_1_84	FTP_T00C_1_84	1	50OHM
N	FTP_T00C_1_85	FTP_T00C_1_85	1	50OHM
N	FTP_T00C_1_86	FTP_T00C_1_86	1	50OHM
N	FTP_T00C_1_87	FTP_T00C_1_87	1	50OHM
N	FTP_T00C_1_88	FTP_T00C_1_88	1	50OHM
N	FTP_T00C_1_89	FTP_T00C_1_89	1	50OHM
N	FTP_T00C_1_90	FTP_T00C_1_90	1	50OHM
N	FTP_T00C_1_91	FTP_T00C_1_91	1	50OHM
N	FTP_T00C_1_92	FTP_T00C_1_92	1	50OHM
N	FTP_T00C_1_93	FTP_T00C_1_93	1	50OHM
N	FTP_T00C_1_94	FTP_T00C_1_94	1	50OHM
N	FTP_T00C_1_95	FTP_T00C_1_95	1	50OHM
N	FTP_T00C_1_96	FTP_T00C_1_96	1	50OHM
N	FTP_T00C_1_97	FTP_T00C_1_97	1	50OHM
N	FTP_T00C_1_98	FTP_T00C_1_98	1	50OHM
N	FTP_T00C_1_99	FTP_T00C_1_99	1	50OHM
N	FTP_T00C_2_0	FTP_T00C_2_0	1	50OHM
N	FTP_T00C_2_1	FTP_T00C_2_1	1	50OHM
N	FTP_T00C_2_2	FTP_T00C_2_2	1	50OHM
N	FTP_T00C_2_3	FTP_T00C_2_3	1	50OHM
N	FTP_T00C_2_4	FTP_T00C_2_4	1	50OHM
N	FTP_T00C_2_5	FTP_T00C_2_5	1	50OHM
N	FTP_T00C_2_6	FTP_T00C_2_6	1	50OHM
N	FTP_T00C_2_7	FTP_T00C_2_7	1	50OHM
N	FTP_T00C_2_8	FTP_T00C_2_8	1	50OHM
N	FTP_T00C_2_9	FTP_T00C_2_9	1	50OHM
N	FTP_T00C_2_10	FTP_T00C_2_10	1	50OHM
N	FTP_T00C_2_11	FTP_T00C_2_11	1	50OHM
N	FTP_T00C_2_12	FTP_T00C_2_12	1	50OHM
N	FTP_T00C_2_13	FTP_T00C_2_13	1	50OHM
N	FTP_T00C_2_14	FTP_T00C_2_14	1	50OHM
N	FTP_T00C_2_15	FTP_T00C_2_15	1	50OHM
N	FTP_T00C_2_16	FTP_T00C_2_16	1	50OHM
N	FTP_T00C_2_17	FTP_T00C_2_17	1	50OHM
N	FTP_T00C_2_18	FTP_T00C_2_18	1	50OHM
N	FTP_T00C_2_19	FTP_T00C_2_19	1	50OHM
N	FTP_T00C_2_20	FTP_T00C_2_20	1	50OHM
N	FTP_T00C_2_21	FTP_T00C_2_21	1	50OHM
N	FTP_T00C_2_22	FTP_T00C_2_22	1	5

XTAL, ROM, JTAG, Misc



	Net Name	DIFF_PAIR	CRITICAL	IMPEDANCE
IN	ITAL_IN	ITAL	1	SUSST
IN	ITAL_OUT	ITAL	1	SUSST
Net Name				
IN	ITAL_GEN			
IN	THESEN	LMR		
IN	THESEN2	LMR		
IN	JTAG_TCK			
IN	JTAG_TMS			
IN	JTAG_TRST			
IN	JTAG_TDO			
IN	JTAG_TDI			
IN	JTAG_TEST			
IN	STRAP_RESET			
IN	STRAP_RESET1			
IN	SDC_S0L			
IN	SDC_S0A			
IN	SDC_S0L_B			
IN	SDC_S0A_B			
IN	BURM_VDD	LMR	3.3V	
15.1V	GPDS_FAN_TACH			
OUT	GPDS_FAN_PWM			
IN	ROM_CS*			
IN	ROM_CS			
IN	ROM_S0			
IN	ROM_S0			
IN	ROM_SELECT			
15.1V	STRAP0			
15.1V	STRAP1			
15.1V	STRAP2			
IN	CPU_PLVDD	LMR	1.05V	0.06A

NVIDIA CORPORATION

2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-11071-BASE-SCH
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PCB REV	P1071-A01
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BOM REV	A
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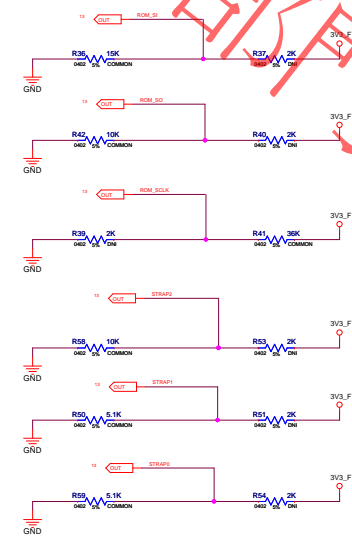
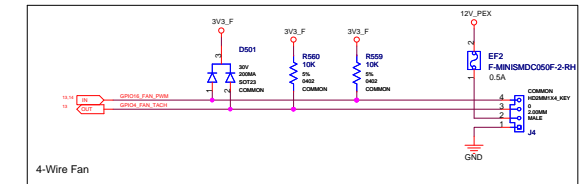
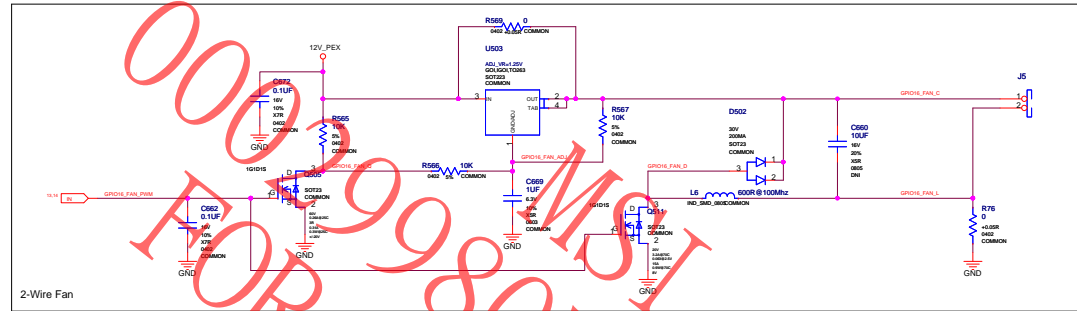
[illegible]

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	XTAL, ROM, JTAG, Misc

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Straps, Thermal, Mechanical

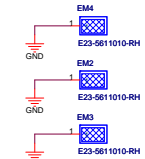
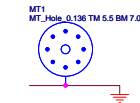
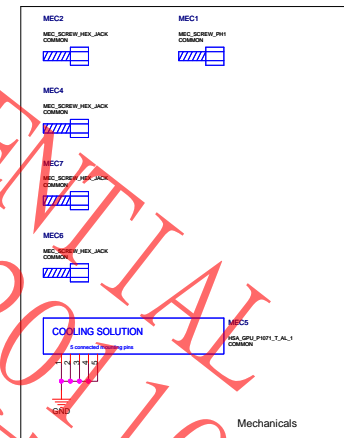
Net Name	MIN_WIDTH	VOLTAGE	MAX_CURRENT
IN	GPIO16, FAN_0		
IN	GPIO16, FAN_ADJ		
IN	GPIO16, FAN_C		
IN	GPIO16, FAN_L		



~~GF108 Straps~~

Bit Signal	Value
------------	-------

BANKCFG2				Multi-level Straps	
01	BANKCFG2[0]	0	Active	5K to 50K	0000
02	BANKCFG2[1]	0	Deactive	10K to 60K	0001
03	BANKCFG2[2]	0	Deactive	15K to 70K	0010
04	BANKCFG2[3]	0	Deactive	20K to 80K	0011
05	XCVR_XCL1_4[0]	0	Deactive	25K to 90K	0100
06	XCVR_XCL1_4[1]	0	Deactive	30K to 100K	0101
07	XCVR_XCL1_4[2]	0	Deactive	35K to 110K	0110
08	XCVR_XCL1_4[3]	0	Deactive	40K to 120K	0111
09	XCVR_XCL1_4[4]	0	Deactive	45K to 130K	1000
10	XCVR_XCL1_4[5]	0	Deactive	50K to 140K	1001
11	XCVR_XCL1_4[6]	0	Deactive	55K to 150K	1010
12	XCVR_XCL1_4[7]	0	Deactive	60K to 160K	1011
13	XCVR_XCL1_4[8]	0	Deactive	65K to 170K	1100
14	XCVR_XCL1_4[9]	0	Deactive	70K to 180K	1101
15	XCVR_XCL1_4[10]	0	Deactive	75K to 190K	1110
16	XCVR_XCL1_4[11]	0	Deactive	80K to 200K	1111
01	PCD_DEV0_EXT	0	Deactive		
02	SUB_DEVICE	0	No Error		
03	SLOT_CSX_CFG	0	Deactive		
04	PCD_DEV1	0	Deactive		
05	PCD_DEV2	0	Deactive		
06	PCD_DEV3	0	Deactive		
07	PCD_DEV4	0	Deactive		
08	PCD_DEV5	0	Deactive		
09	PCD_DEV6	0001	GP108-300-A1		
10	PCD_DEV7	0010	GP108-200-A1		
01	PCD_DEV10				
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286	PCD_DEV295				



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Straps, Thermal, Mechanical

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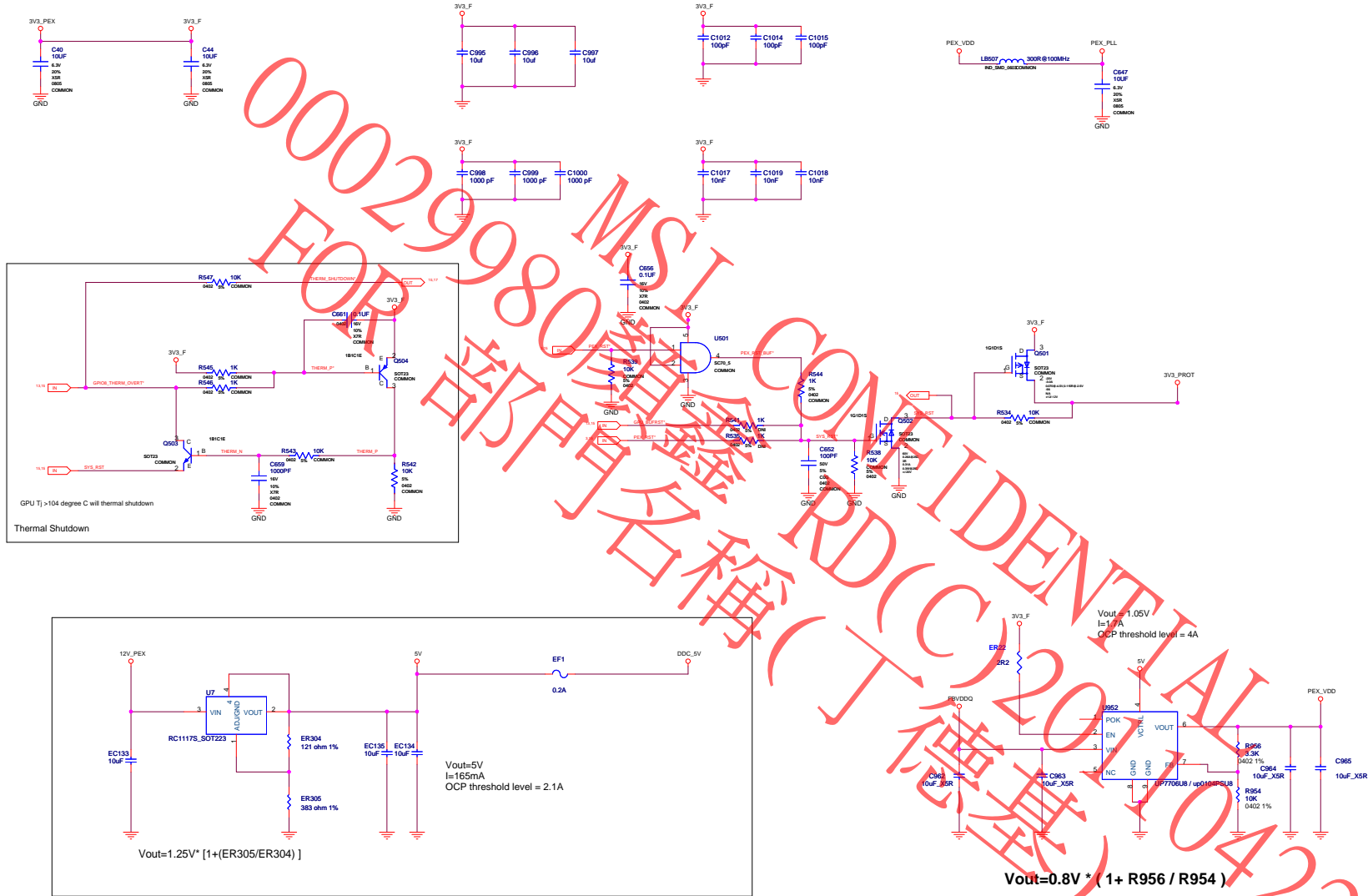
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SANTA CLARA, CA 95050, USA

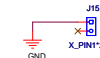


NV_PN	600-11071-BASE-SCH		
PCB REV	P1071-AD1	PAGE	
BOM REV	A	DATE	01-APR-2010

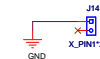
Power Supply I: Misc Power, Thermal Shutdown



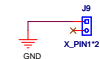
	Net Name	MIN_WIDTH	VOLTAGE	MAX_CURRENT
10.1.7	THERM_BAUD00V0			
10.1.7	GPEN_THERM_CU0V01			
10.1.6	THERM_0			
10.1.6	THERM_1			
10.1.6	THERM_2			
10.1.6	THERM_3			
10.1.6	SV1_R01			
10.1.6	SV1_R02			
10.1.6	SV1_R03			
10.1.6	PEX_R01			
10.1.6	GPU_BUSY01			
10.1.6	PEX_R02_BUP			
10.1.6	PS_01_BROADCAST	1.00W		
10.1.6	PS_02_PROG	1.00W		
10.1.6	PS_03_PROG	1.00W		
10.1.6	PS_04_PROG	1.00W		
10.1.6	PS_05_PROG	1.00W		
10.1.6	PEX_P000_V0	1.00W		
10.1.6	PEX_P001_V0	1.00W		
10.1.6	PEX_P01	1.00W	1.00V	0.002A
10.1.6	SV0_P01	1.00W	2.50V	3A
10.1.6	SV0_P02	1.00W	2.50V	3.000A
10.1.6	SV0_P03	1.00W	2.50V	3.000A
10.1.6	SV0_P04	1.00W	2.50V	3.000A
10.1.6	SV0_P05	1.00W	2.50V	3.000A
10.1.6	PEX_V00	1.00W	1.00V	1.0A



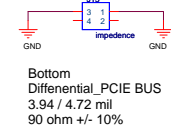
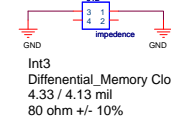
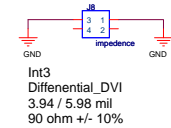
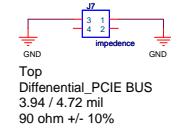
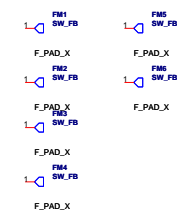
Top
Single Ended_Memory CMD
6.6929 mil
40 ohm +/- 10%




Int3
Single Ended_RGB
4.76377 mil
50 ohm +/- 10%



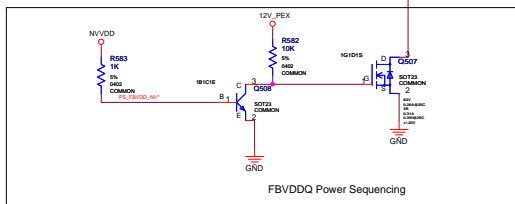
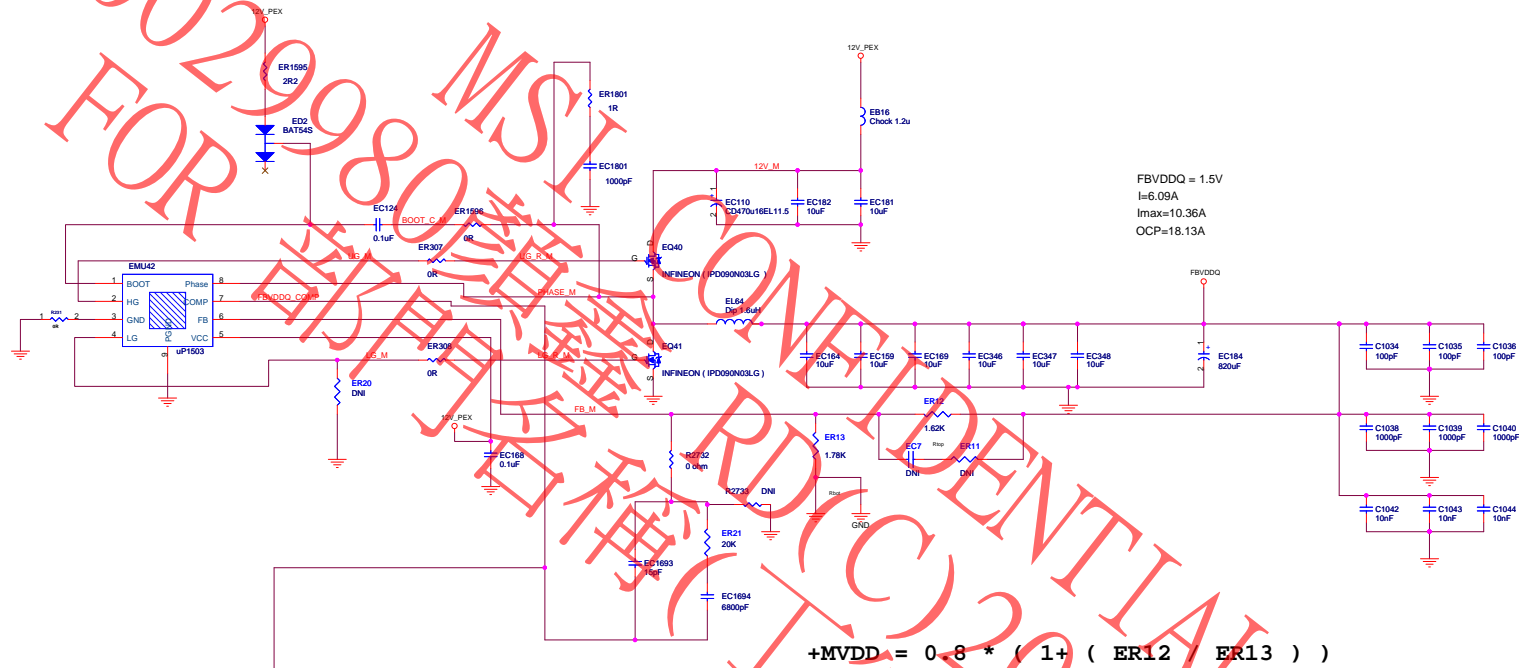
Bottom
Single Ended_Memory Data
3.937 mil
53 ohm +/- 10%



NVIDIA CORPORATION 2701 N. SUN TOWNS EXPRESSWAY SANTA CLARA, CA 95050, USA			
NV_PN 600-11071-BASE-SCH			
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Power Supply II: FBVDDQ

	Net Name	MIN_WIDTH	VOLTAGE	MAX_CURRENT
18	PS_FREVDD_VCC	10mil		
19	PS_FREVDD_EN	10mil		
20	PS_FREVDD_ENF	10mil		
21	PS_FREVDD_BOOST	10mil		
22	PS_FREVDD_BOOST_IC	10mil		
23	PS_FREVDD_FB	10mil		
24	PS_FREVDD_FB_IC	10mil		
25	PS_FREVDD_CF_IC	10mil		
26	PS_FREVDD_DS	10mil		
27	PS_FREVDD_DS_R	10mil		
28	PS_FREVDD_LS	10mil		
29	PS_FREVDD_PHASE	10mil		
30	PS_FREVDD_SINKB	10mil		
31	FREVDDO	10mil	1.50V	50A



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Power Supply II: FBVDDQ

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SANTA CLARA, CA 95050, USA

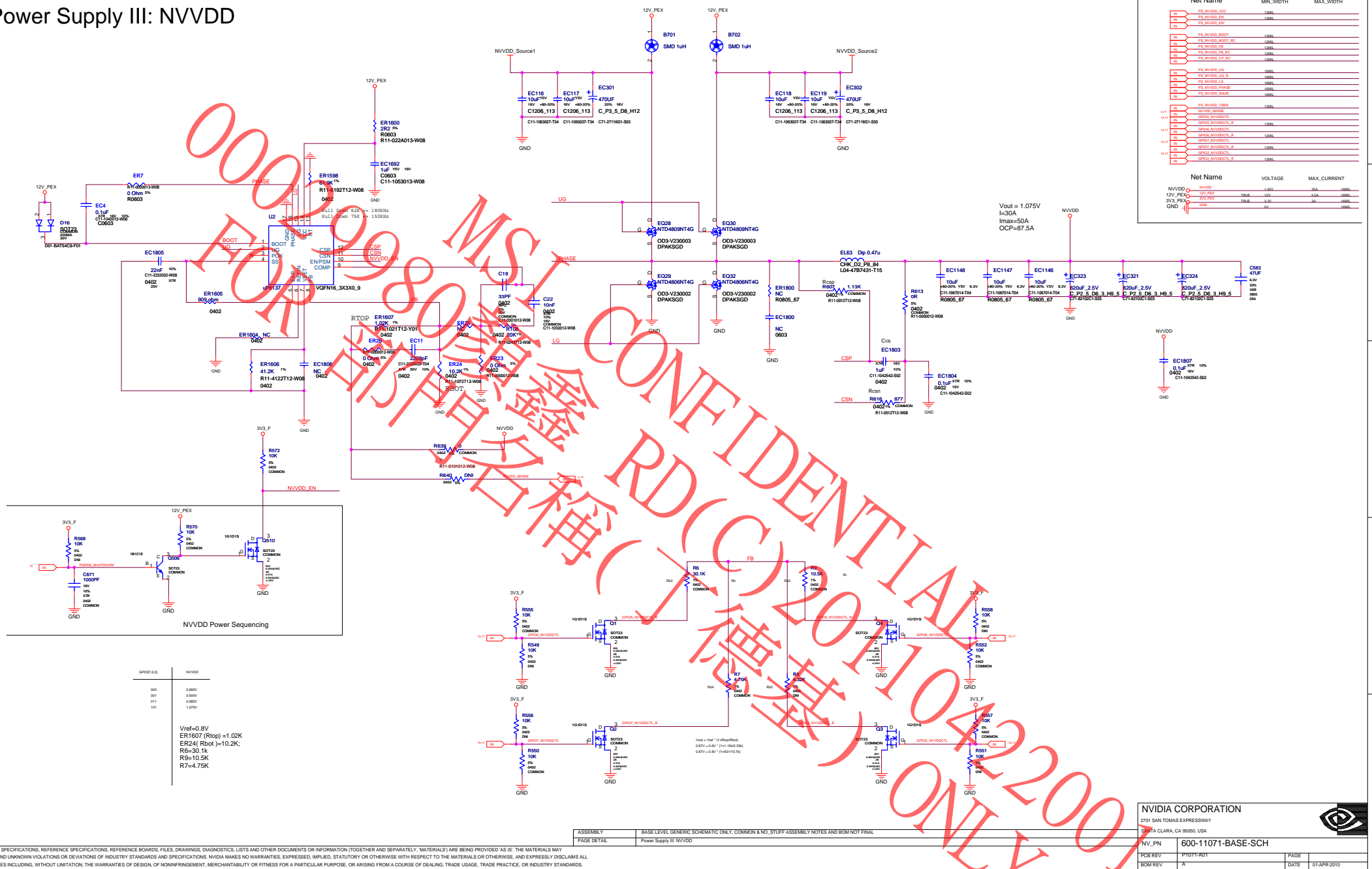
NV_PN	600-11071-BASE-SCH
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PCB REV	P1071-A01
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[illegible][illegible]

Power Supply III: NVVDD



NVIDIA CORPORATION 2701 SAN TOMAS EXPRESSWAY SANTA CLARA, CA 95050, USA			
NV_PN		600-11071-BASE-SCH	
PCB REV	P1071-AD1	PAGE	
BOM REV	A	DATE	01-APR-2010

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Title: Cof Part		C004 (7.28)		C005 (3.20)		D7 (14.37)		R8 (17.47)		R523 (8.40)		U005 (17.30)	
Revision: p1071.adt		C006 (7.28)		C006 (12.30)		D8 (14.20)		R9 (17.47)		R524 (8.50)		Y1 (13.50)	
Date: Mar 31		C007 (5.40)		C007 (12.30)		D001 (14.20)		R10 (10.40)		R525 (9.38)		Y2 (13.50)	
14 19 50 2010		C008 (5.40)		C008 (12.30)		D002 (13.10)		R11 (8.20)		R526 (8.34)			
		C009 (5.40)		C009 (10.38)		D003 (18.20)		R12 (10.40)		R527 (8.34)			
		C010 (7.20)		C009 (3.20)		D004 (17.30)		R13 (11.30)		R528 (8.40)			
		C011 (7.20)		C011 (13.48)		F1 (15.40)		R14 (11.30)		R529 (9.40)			
		C012 (7.20)		C012 (7.38)		G1 (7.38)		R15 (11.40)		R530 (9.50)			
		C013 (7.20)		C013 (7.38)		G1 (14.30 4.38)		R16 (8.20)		R531 (11.30)			
		C014 (10.40)		C014 (10.38)				R17 (10.30)		R532 (13.38)			
		C015 (7.28)		C015 (10.38)				R18 (8.20)		R533 (4.34)			
		C016 (7.28)		C016 (10.48)				R19 (9.20)		R534 (15.30)			
		C017 (7.28)		C017 (10.30)				R20 (9.20)		R535 (15.30)			
		C018 (7.28)		C018 (2.30)				R21 (9.20)		R536 (8.30)			
		C019 (7.28)		C019 (7.28)				R22 (10.40)		R537 (4.34)			
		C020 (7.28)		C020 (5.30)				R23 (9.10)		R538 (13.28)			
		C021 (7.28)		C021 (7.28)				R24 (9.20)		R539 (13.28)			
		C022 (7.28)		C022 (7.28)				R25 (9.20)		R540 (13.28)			
		C023 (7.28)		C023 (13.44)				R26 (11.30)		R541 (15.30)			
		C024 (5.40)		C024 (5.40)				R27 (11.20)		R542 (15.30)			
		C025 (5.40)		C025 (5.40)				R28 (11.30)		R543 (15.30)			
		C026 (5.40)		C026 (5.40)				R29 (17.30)		R544 (15.30)			
		C027 (5.40)		C027 (5.40)				R30 (14.20)		R545 (15.30)			
		C028 (5.40)		C028 (5.34)				R31 (15.48)		R546 (15.20)			
		C029 (5.40)		C029 (11.38)				R32 (16.20)		R547 (15.20)			
		C030 (5.40)		C030 (2.30)				R33 (15.30)		R548 (13.28)			
		C031 (7.28)		C031 (7.28)				R34 (17.30)		R549 (17.40)			
		C032 (5.40)		C032 (5.40)				R35 (15.40)		R550 (17.50)			
		C033 (5.40)		C033 (11.38)				R36 (14.38)		R551 (17.50)			
		C034 (5.40)		C034 (7.28)				R37 (15.30)		R552 (17.40)			
		C035 (7.28)		C035 (7.28)				R38 (14.38)		R553 (13.28)			
		C036 (7.28)		C036 (11.38)				R39 (14.48)		R554 (13.28)			
		C037 (7.28)		C037 (7.28)				R40 (14.40)		R555 (17.40)			
		C038 (5.40)		C038 (10.38)				R41 (15.40)		R556 (17.50)			
		C039 (7.28)		C039 (7.28)				R42 (15.40)		R557 (17.50)			
		C040 (7.28)		C040 (7.28)				R43 (15.40)		R558 (17.40)			
		C041 (7.28)		C041 (7.28)				R44 (15.40)		R559 (14.20)			
		C042 (7.28)		C042 (7.28)				R45 (15.40)		R560 (14.20)			
		C043 (7.28)		C043 (7.28)				R46 (15.40)		R561 (15.40)			
		C044 (7.28)		C044 (7.28)				R47 (15.40)		R562 (13.10)			
		C045 (7.28)		C045 (7.28)				R48 (15.40)		R563 (13.10)			
		C046 (7.28)		C046 (7.28)				R49 (15.40)		R564 (13.10)			
		C047 (7.28)		C047 (7.28)				R50 (15.40)		R565 (13.10)			
		C048 (7.28)		C048 (7.28)				R51 (15.40)		R566 (13.10)			
		C049 (7.28)		C049 (7.28)				R52 (15.40)		R567 (13.10)			
		C050 (7.28)		C050 (7.28)				R53 (15.40)		R568 (13.10)			
		C051 (7.28)		C051 (7.28)				R54 (15.40)		R569 (13.10)			
		C052 (7.28)		C052 (7.28)				R55 (15.40)		R570 (13.10)			
		C053 (7.28)		C053 (7.28)				R56 (15.40)		R571 (13.10)			
		C054 (7.28)		C054 (7.28)				R57 (15.40)		R572 (13.10)			
		C055 (7.28)		C055 (7.28)				R58 (15.40)		R573 (13.10)			
		C056 (7.28)		C056 (7.28)				R59 (15.40)		R574 (13.10)			
		C057 (7.28)		C057 (7.28)				R60 (15.40)		R575 (13.10)			
		C058 (7.28)		C058 (7.28)				R61 (15.40)		R576 (13.10)			
		C059 (7.28)		C059 (7.28)				R62 (15.40)		R577 (13.10)			
		C060 (7.28)		C060 (7.28)				R63 (15.40)		R578 (13.10)			
		C061 (7.28)		C061 (7.28)				R64 (15.40)		R579 (13.10)			
		C062 (7.28)		C062 (7.28)				R65 (15.40)		R580 (13.10)			
		C063 (7.28)		C063 (7.28)				R66 (15.40)		R581 (13.10)			
		C064 (7.28)		C064 (7.28)				R67 (15.40)		R582 (13.10)			
		C065 (7.28)		C065 (7.28)				R68 (15.40)		R583 (13.10)			
		C066 (7.28)		C066 (7.28)				R69 (15.40)		R584 (13.10)			
		C067 (7.28)		C067 (7.28)				R70 (15.40)		R585 (13.10)			
		C068 (7.28)		C068 (7.28)				R71 (15.40)		R586 (13.10)			
		C069 (7.28)		C069 (7.28)				R72 (15.40)		R587 (13.10)			
		C070 (7.28)		C070 (7.28)				R73 (15.40)		R588 (13.10)			
		C071 (7.28)		C071 (7.28)				R74 (15.40)		R589 (13.10)			
		C072 (7.28)		C072 (7.28)				R75 (15.40)		R590 (13.10)			
		C073 (7.28)		C073 (7.28)				R76 (15.40)		R591 (13.10)			
		C074 (7.28)		C074 (7.28)				R77 (15.40)		R592 (13.10)			
		C075 (7.28)		C075 (7.28)				R78 (15.40)		R593 (13.10)			
		C076 (7.28)		C076 (7.28)				R79 (15.40)		R594 (13.10)			
		C077 (7.28)		C077 (7.28)				R80 (15.40)		R595 (13.10)			
		C078 (7.28)		C078 (7.28)				R81 (15.40)		R596 (13.10)			
		C079 (7.28)		C079 (7.28)				R82 (15.40)		R597 (13.10)			
		C080 (7.28)		C080 (7.28)				R83 (15.40)		R598 (13.10)			
		C081 (7.28)		C081 (7.28)				R84 (15.40)		R599 (13.10)			
		C082 (7.28)		C082 (7.28)				R85 (15.40)		R600 (13.10)			
		C083 (7.28)		C083 (7.28)				R86 (15.40)		R601 (13.10)			
		C084 (7.28)		C084 (7.28)				R87 (15.40)		R602 (13.10)			
		C085 (7.28)		C085 (7.28)				R88 (15.40)		R603 (13.10)			
		C086 (7.28)		C086 (7.28)				R89 (15.40)		R604 (13.10)			
		C087 (7.28)		C087 (7.28)				R90 (15.40)		R605 (13.10)			
		C088 (7.28)		C088 (7.28)				R91 (15.40)		R606 (13.10)			
		C089 (7.28)		C089 (7.28)				R92 (15.40)		R607 (13.10)			
		C090 (7.28)		C090 (7.28)				R93 (15.40)		R608 (13.10)			
		C091 (7.28)		C091 (7.28)				R94 (15.40)		R609 (13.10)			
		C092 (7.28)		C092 (7.28)				R95 (15.40)		R610 (13.10)			
		C093 (7.28)		C093 (7.28)				R96 (15.40)		R611 (13.10)			
		C094 (7.28)		C094 (7.28)				R97 (15.40)		R612 (13.10)			
		C095 (7.28)		C095 (7.28)				R98 (15.40)		R613 (13.10)			
		C096 (7.28)		C096 (7.28)				R99 (15.40)		R614 (13.10)			
		C097 (7.28)		C097 (7.28)				R100 (15.40)		R615 (13.10)			
		C098 (7.28)		C098 (7.28)				R101 (15.40)		R616 (13.10)			
		C099 (7.28)		C099 (7.28)				R102 (15.40)		R617 (13.10)			
		C100 (7.28)		C100 (7.28)				R103 (15.40)		R618 (13.10)			
		C101 (7.28)		C101 (7.28)				R104 (15.40)		R619 (13.10)			
		C102 (7.28)		C102 (7.28)				R105 (15.40)		R620 (13.10)			
		C103 (7.28)		C103 (7.28)				R106 (15.40)		R621 (13.10)			
		C104 (7.28)		C104 (7.28)				R107 (15.40)		R622 (13.10)			
		C105 (7.28)		C105 (7.28)				R108 (15.40)		R623 (13.10)			
		C106 (7.28)		C106 (7.28)				R109 (15.40)		R624 (13.10)			
		C107 (7.28)		C107 (7.28)				R110 (15.40)		R625 (13.10)			
		C108 (7.28)		C108 (7.28)				R111 (15.40)		R626 (13.10)			
		C109 (7.28)		C109 (7.28)				R112 (15.40)		R627 (13.10)			
		C110 (7.28)		C110 (7.28)				R113 (15.40)		R628 (13.10)			
		C111 (7.28)		C111 (7.28)				R114 (15.40)		R629 (13.10)			
		C112 (7.28)		C112 (7.28)				R115 (15.40)		R630 (13.10)			
		C113 (7.28)		C113 (7.28)				R116 (15.40)		R631 (13.10)			
		C114 (7.28)		C114 (7.28)				R117 (15.40)		R632 (13.10)			
		C115 (7.28)		C115 (7.28)				R118 (15.40)		R633 (13.10)			
		C116 (7.28)		C116 (7.28)				R119 (15.40)		R634 (13.10)			
		C117 (7.28)		C117 (7.28)				R120 (15.40)		R635 (13.10)			
		C118 (7.28)		C118 (7.28)				R121 (15.40)		R636 (13.10)			
		C119 (7.28)		C119 (7.28)				R122 (15.40)		R637 (13.10)			
		C120 (7.28)		C120 (7.28)				R123 (15.40)		R638 (13.10)			
		C121 (7.28)		C121 (7.28)				R124 (15.40)		R639 (13.10)			
		C122 (7.28)		C122 (7.28)				R125 (15.40)		R640 (13.10)			
		C123 (7.28)		C123 (7.28)				R126 (15.40)		R641 (13.10)			
		C124 (7.28)		C124 (7.28)				R127 (15.40)		R642 (13.10)			
		C125 (7.28)		C125 (7.28)				R128 (15.40)		R643 (13.10)			
		C126 (7.28)		C126 (7.28)				R129 (15.40)		R644 (13.10)			
		C127 (7.28)		C127 (7.28)				R130 (15.40)		R645 (13.10)			
		C128 (7.28)		C128 (7.28)				R131 (15.40)		R646 (13.10)			
		C129 (7.28)		C129 (7.28)				R132 (15.40)		R647 (13.10)			
		C130 (7.28)		C130 (7.28)				R133 (15.40)		R648 (13.10)			
		C131 (7.28)		C131 (7.28)				R134 (15.40)		R649 (13.10)			
		C132 (7.28)		C132 (7.28)				R135 (15.40)		R650 (13.10)			
		C133 (7.28)		C133 (7.28)				R136 (15.40)		R651 (13.10)			
		C134 (7.28)		C134 (7.28)				R137 (15.40)					