

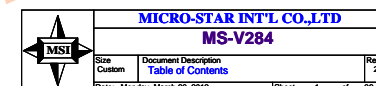
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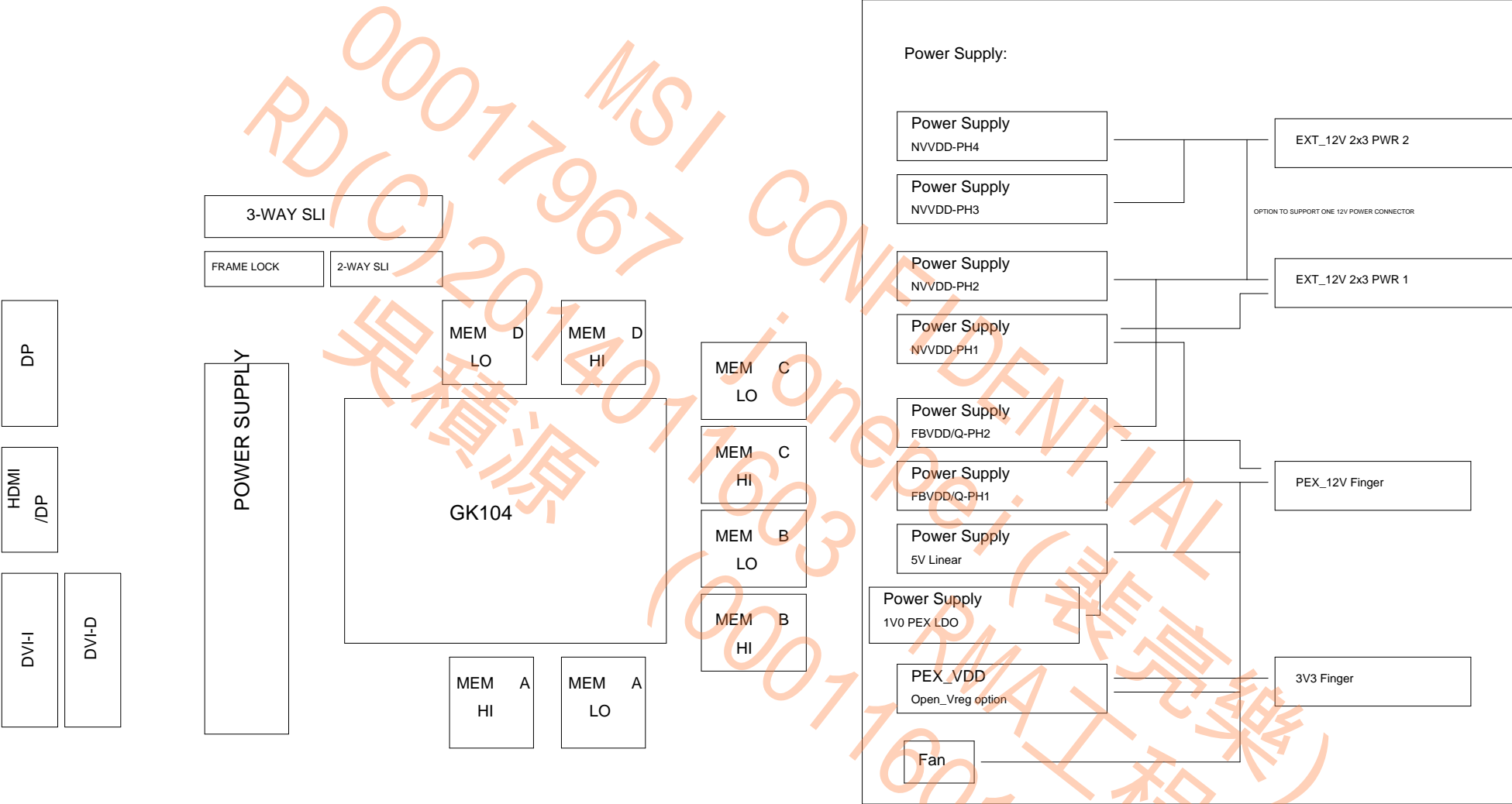
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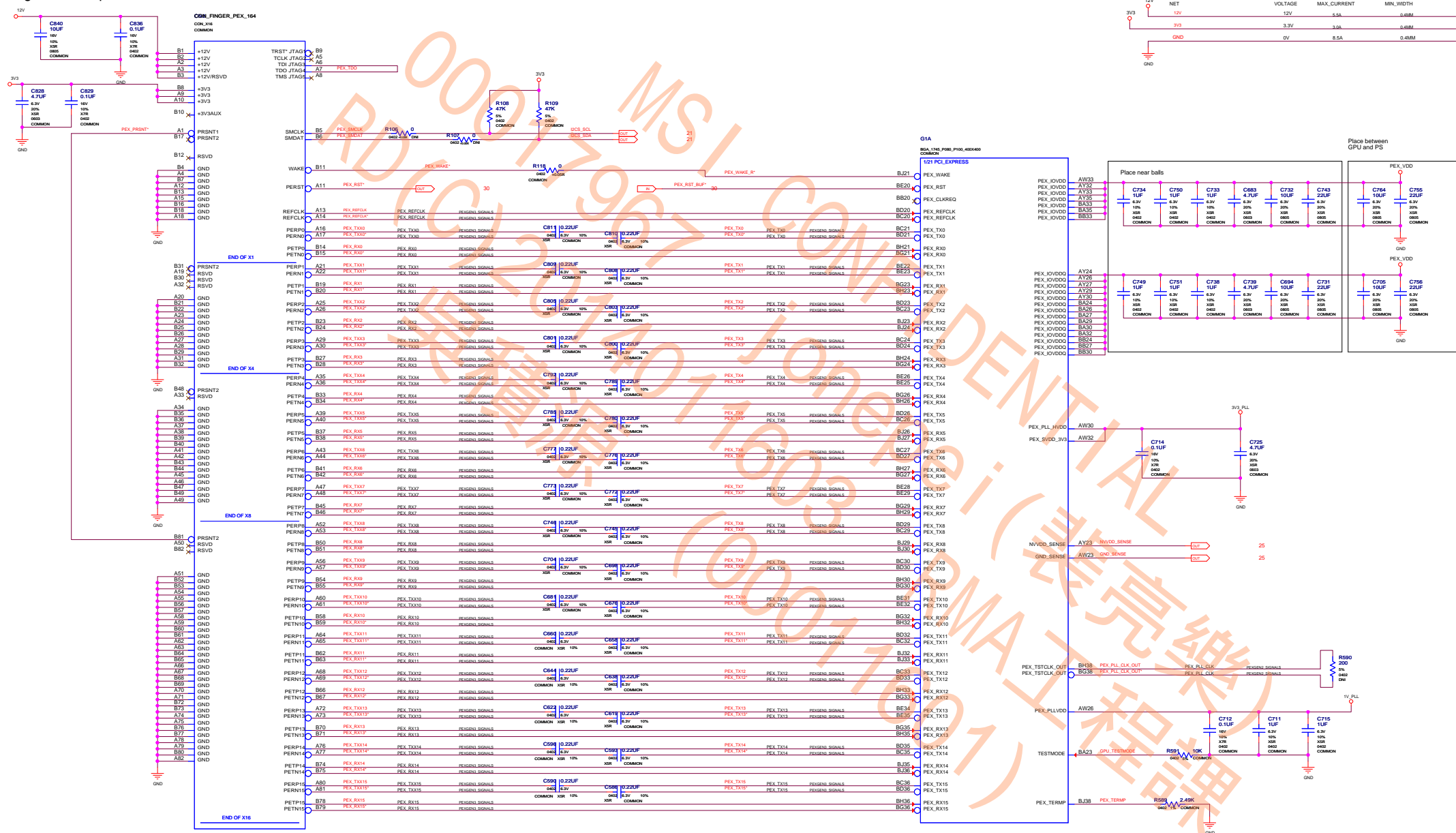
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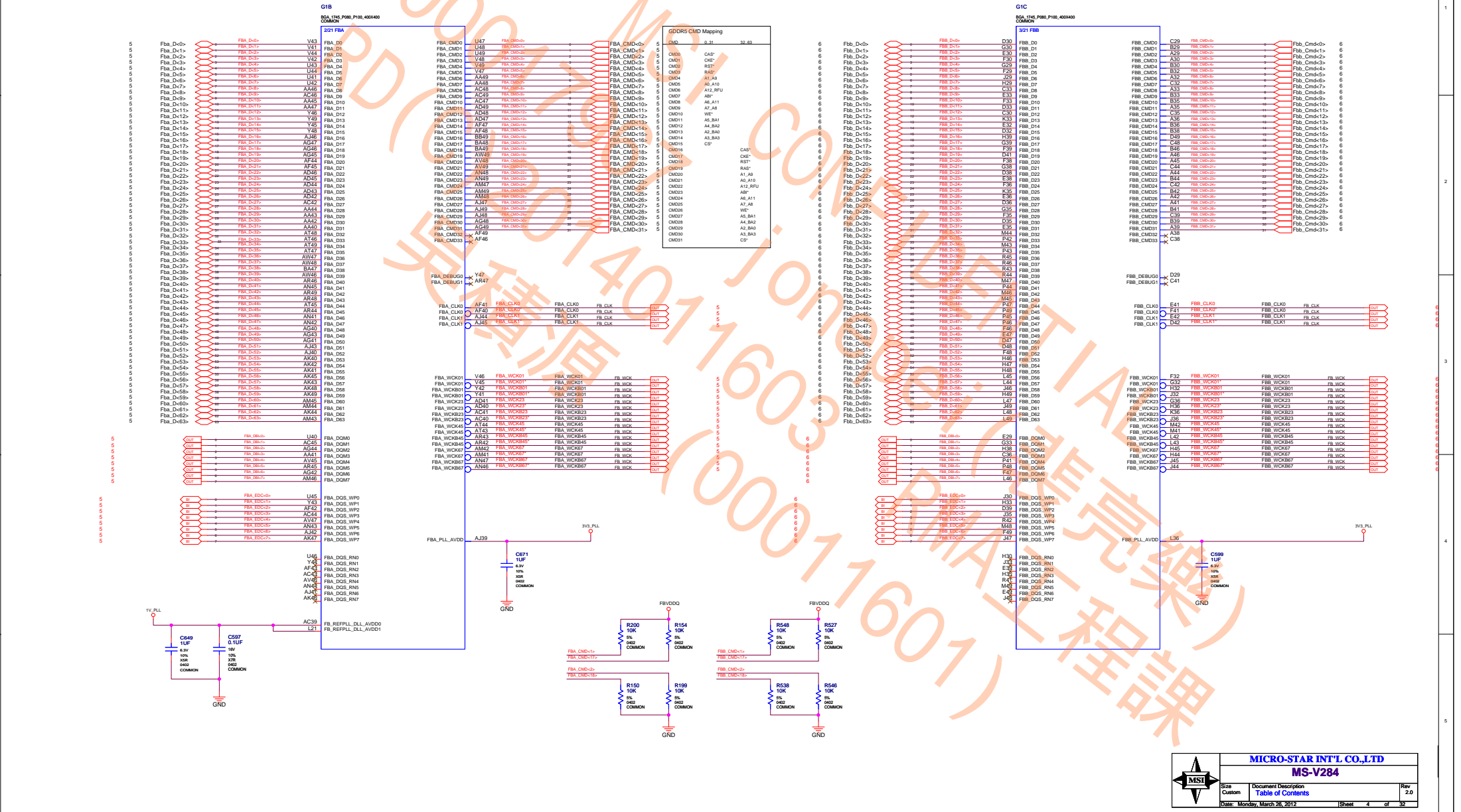
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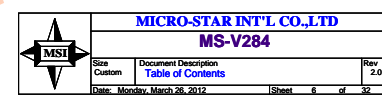


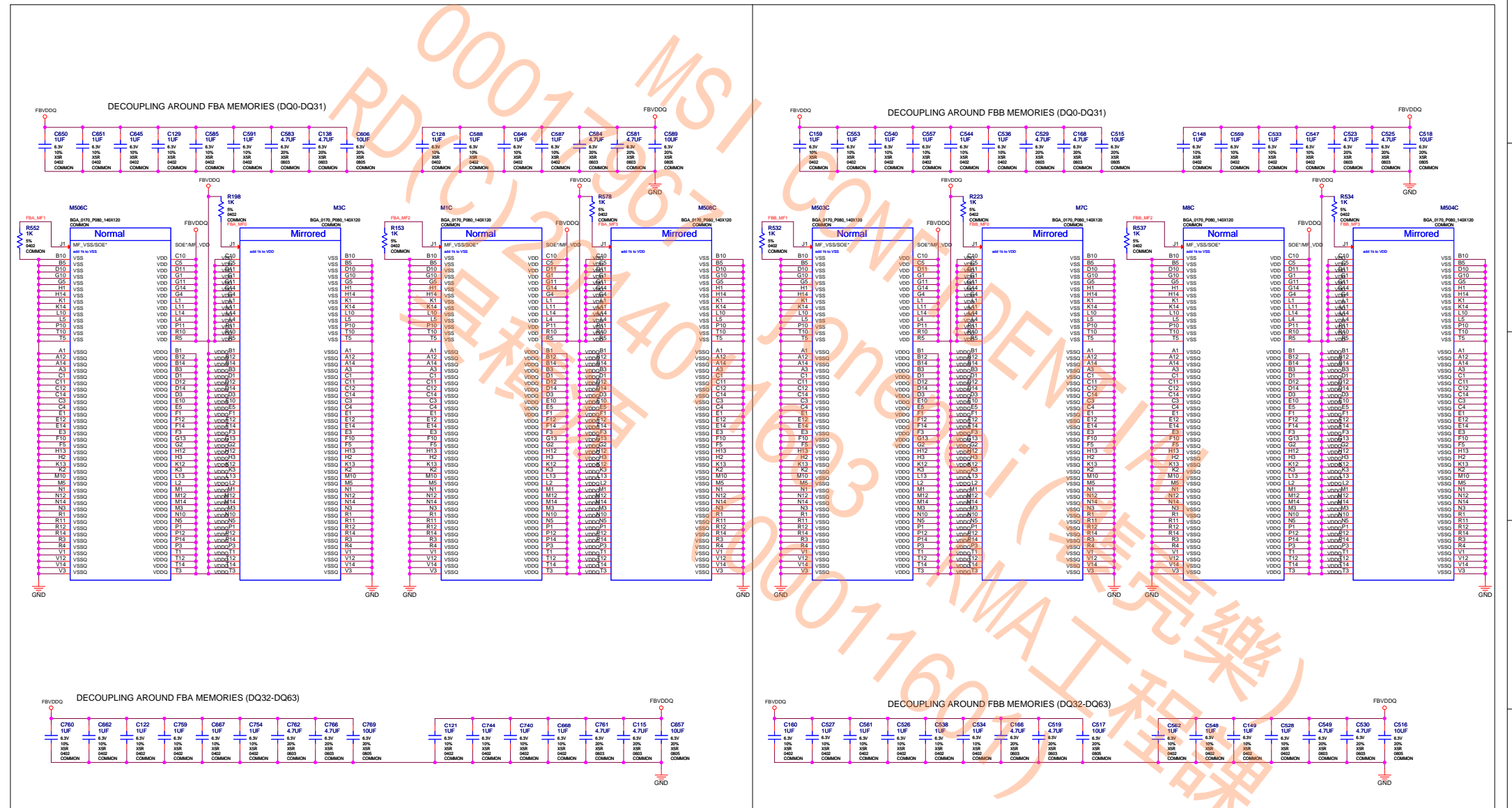


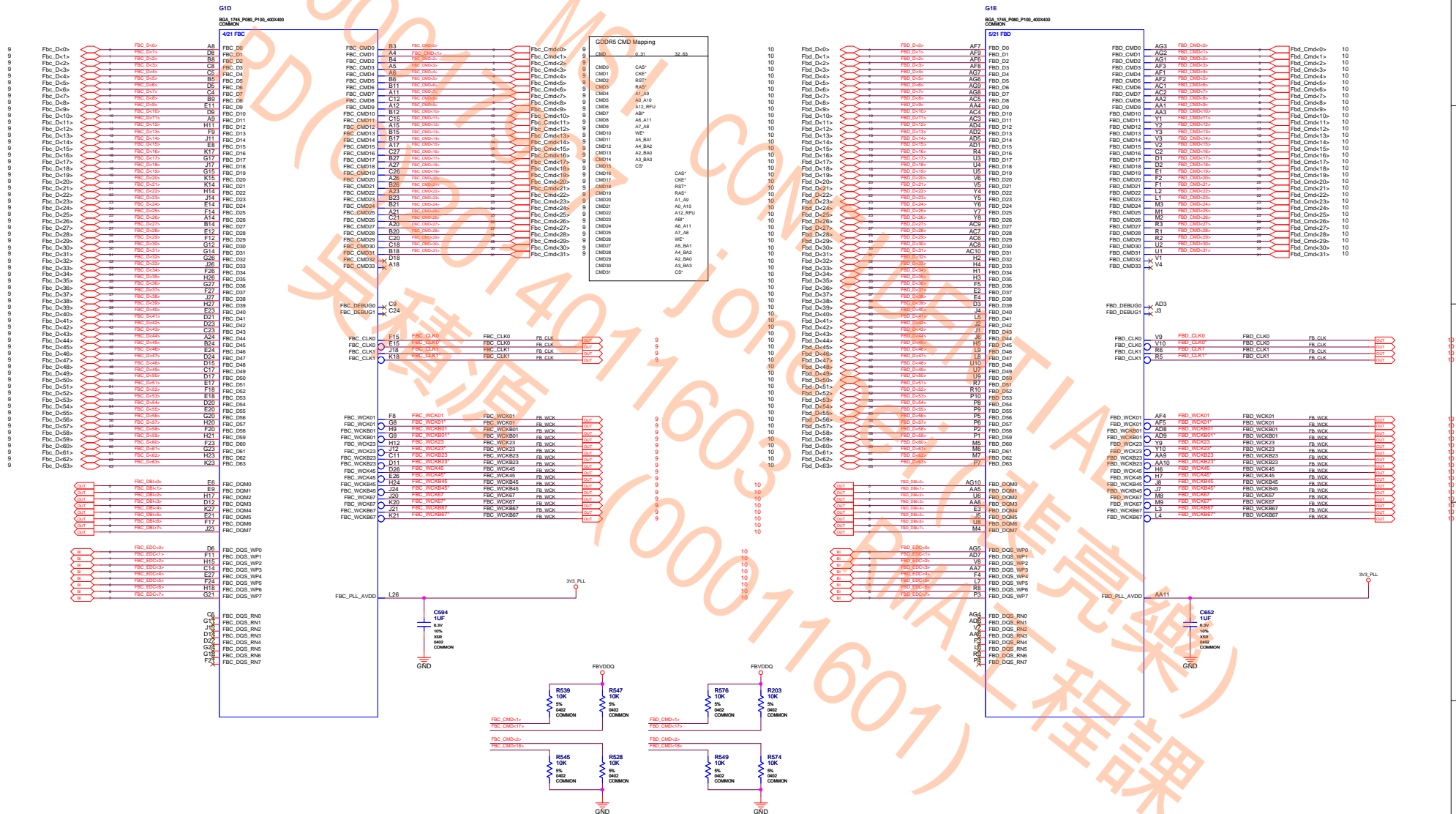


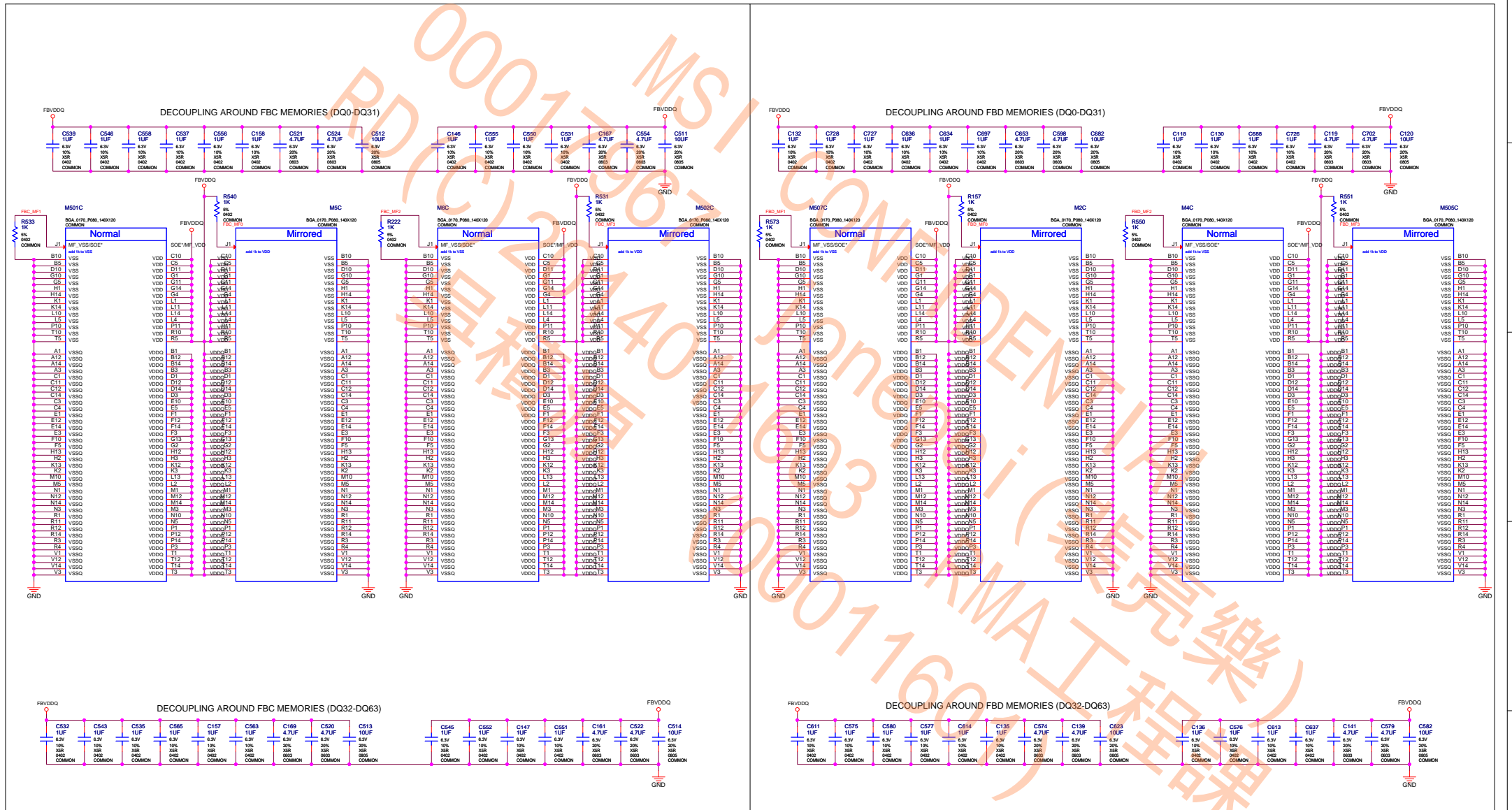


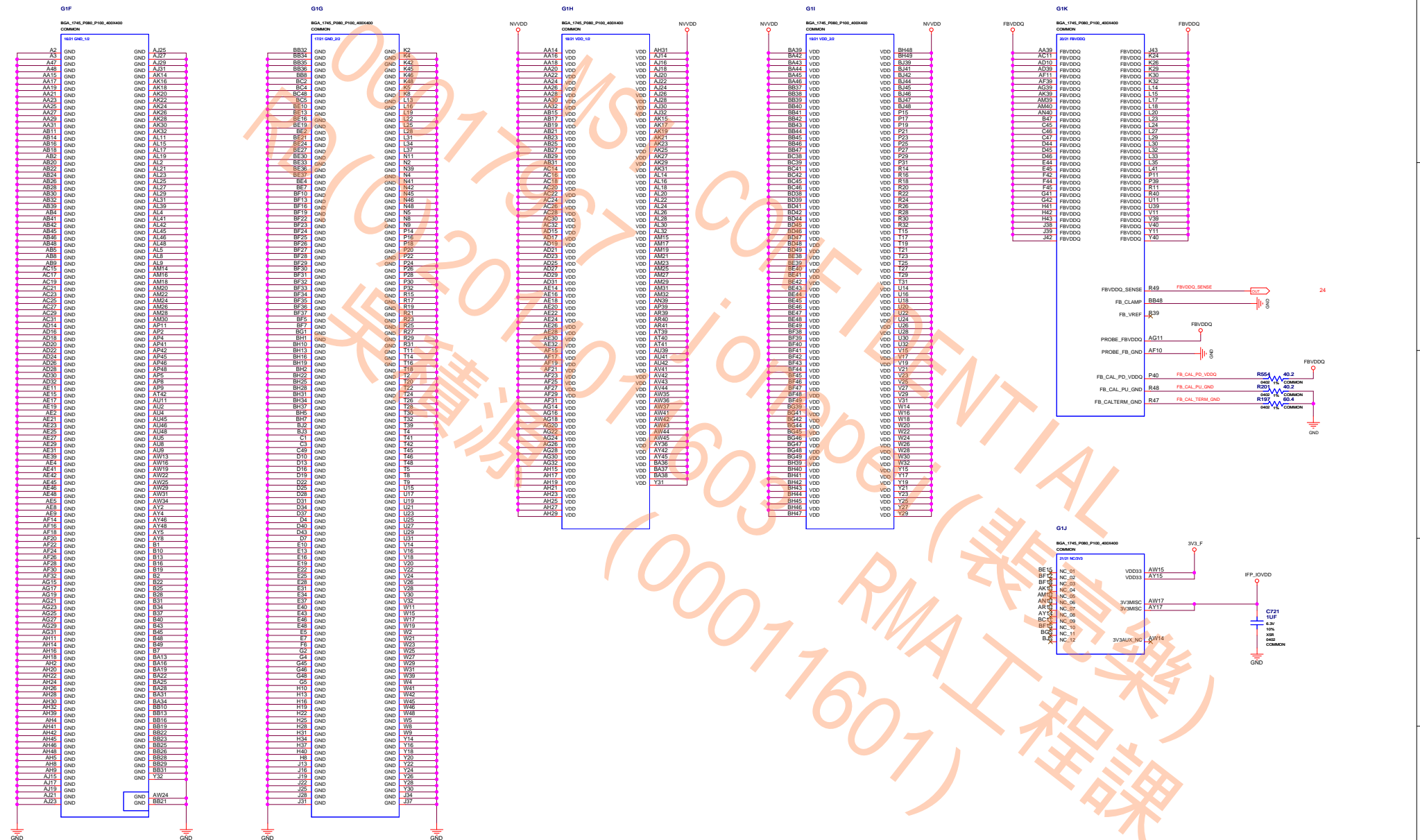




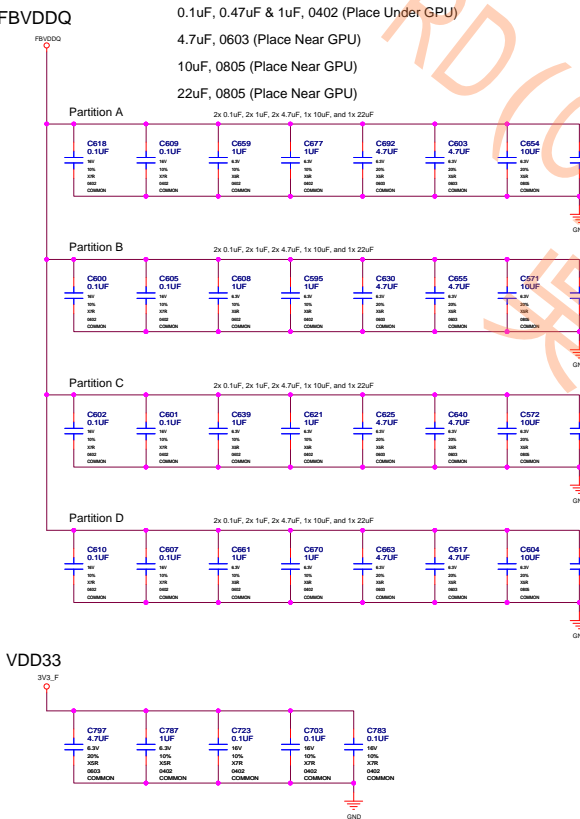




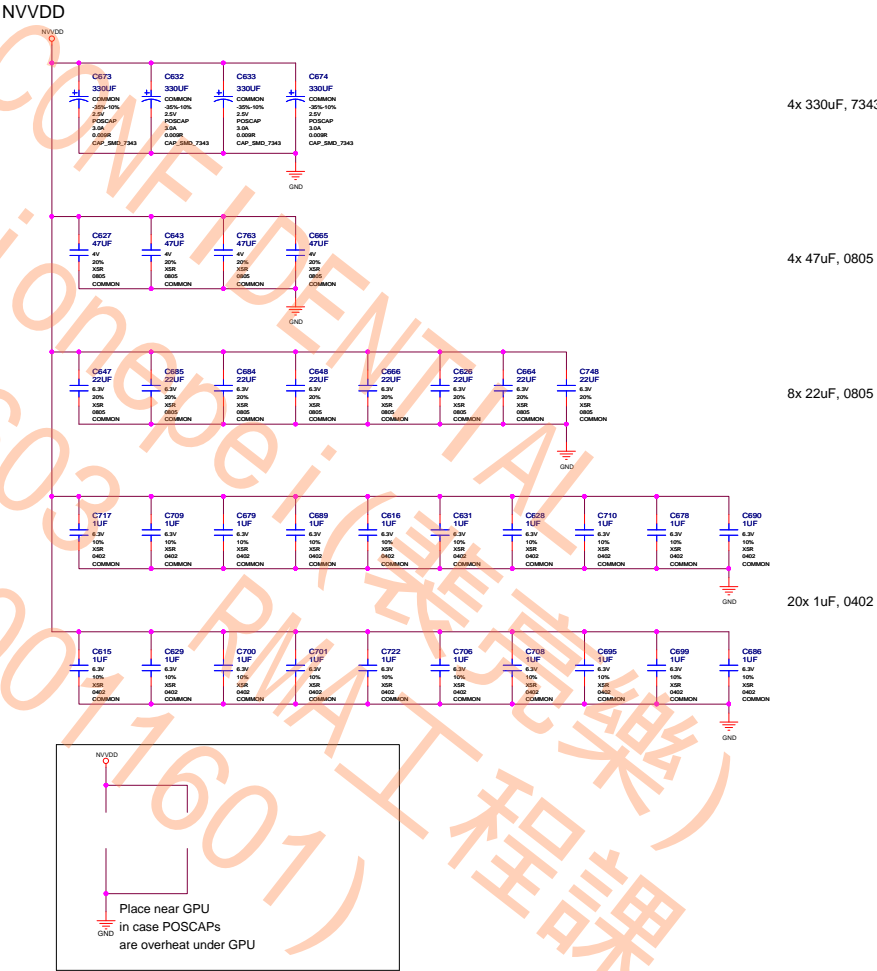


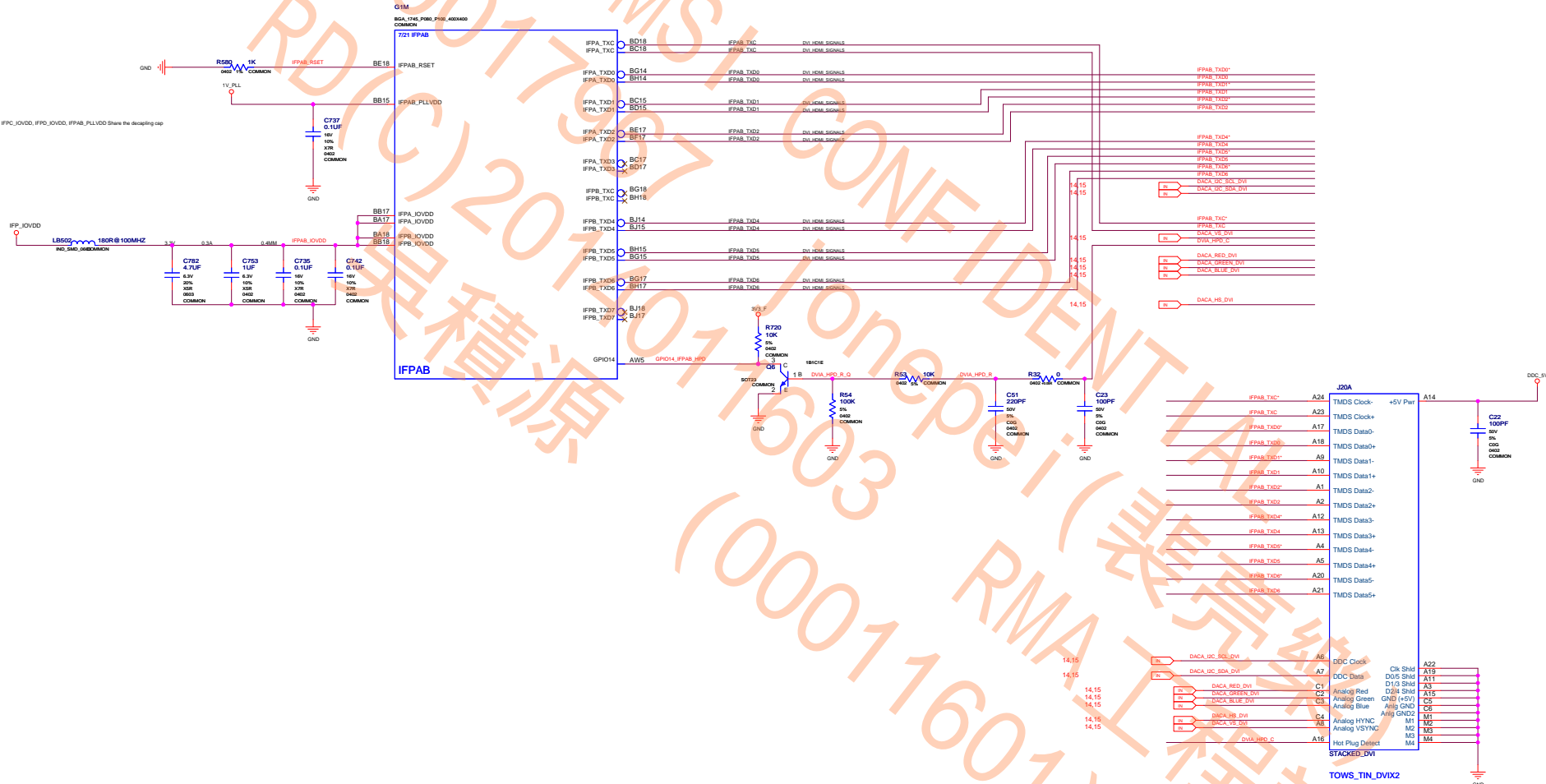


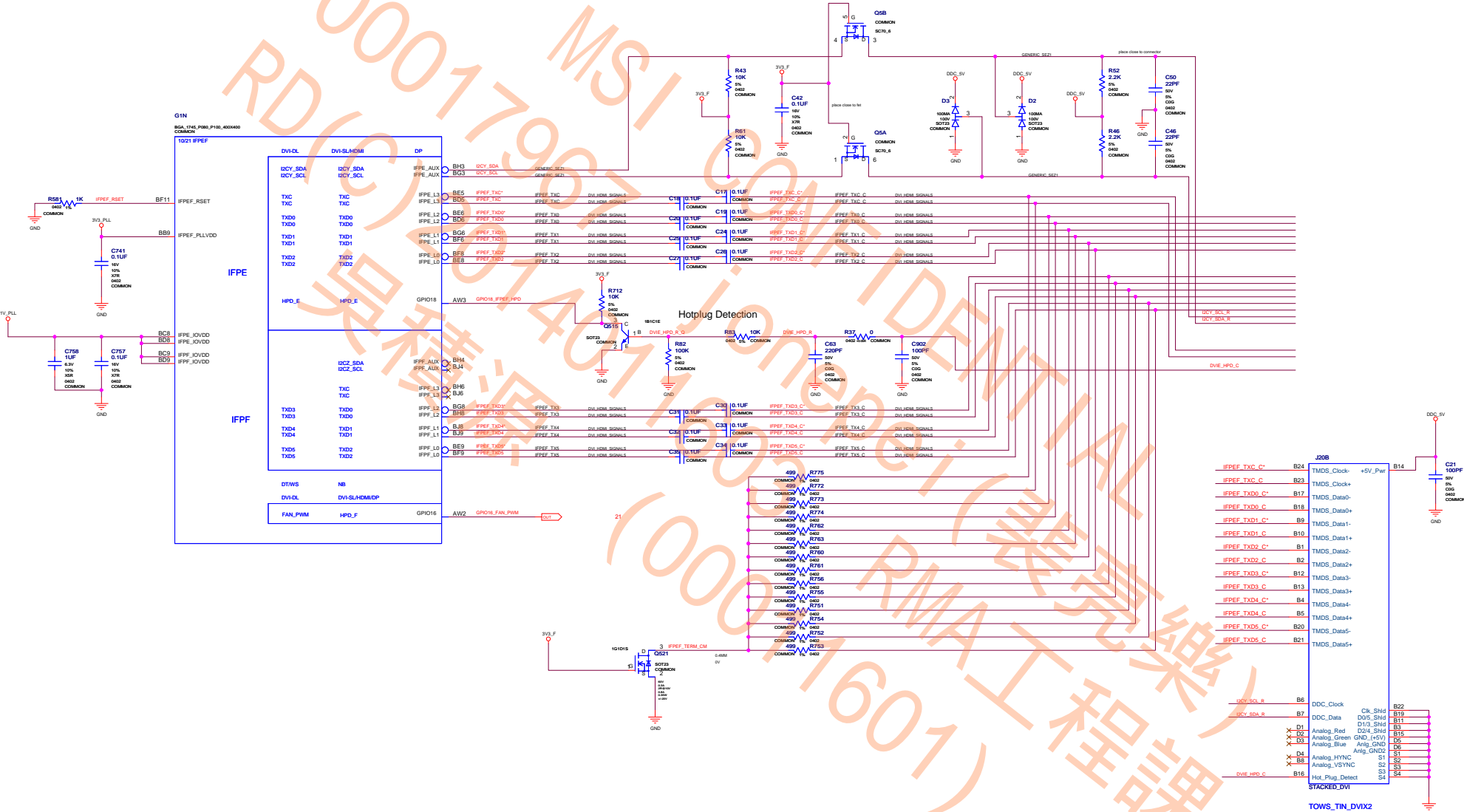
Based on GB2-X GDDR5 FBVDDQ Decap Guideline

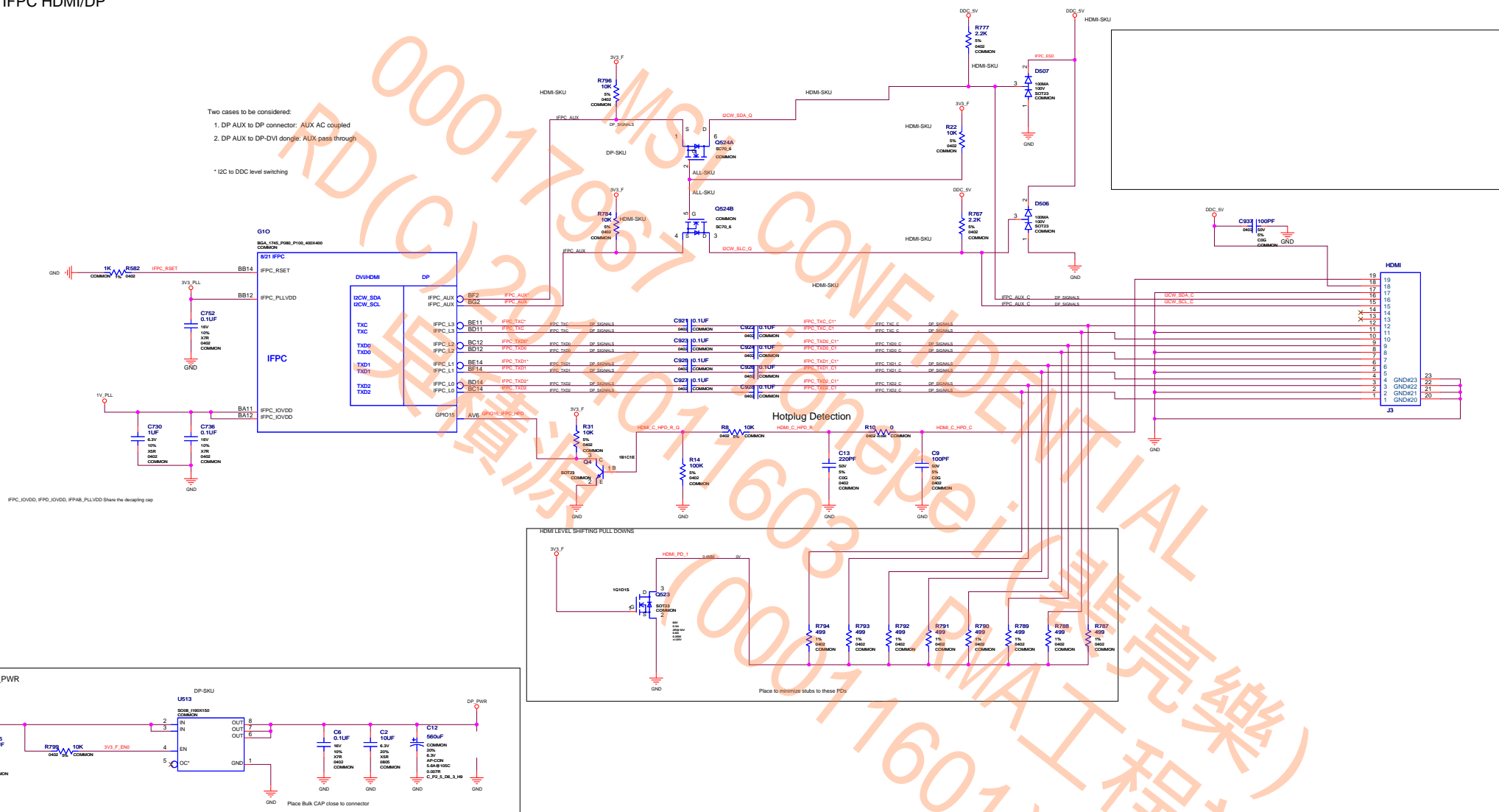


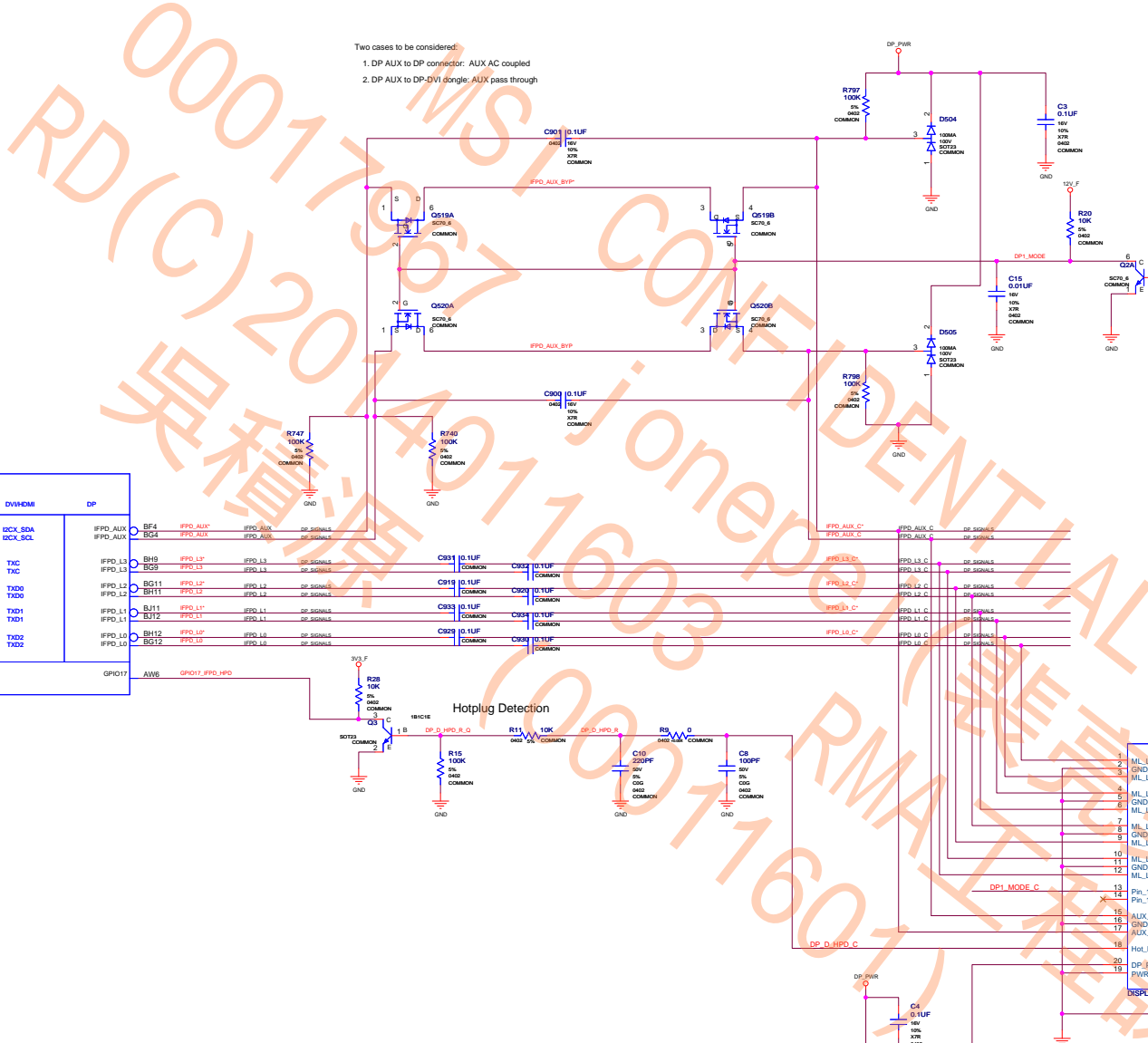
NVVDD Decoupling caps. Place under GPU.

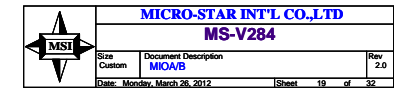












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吳積源 (00011601)

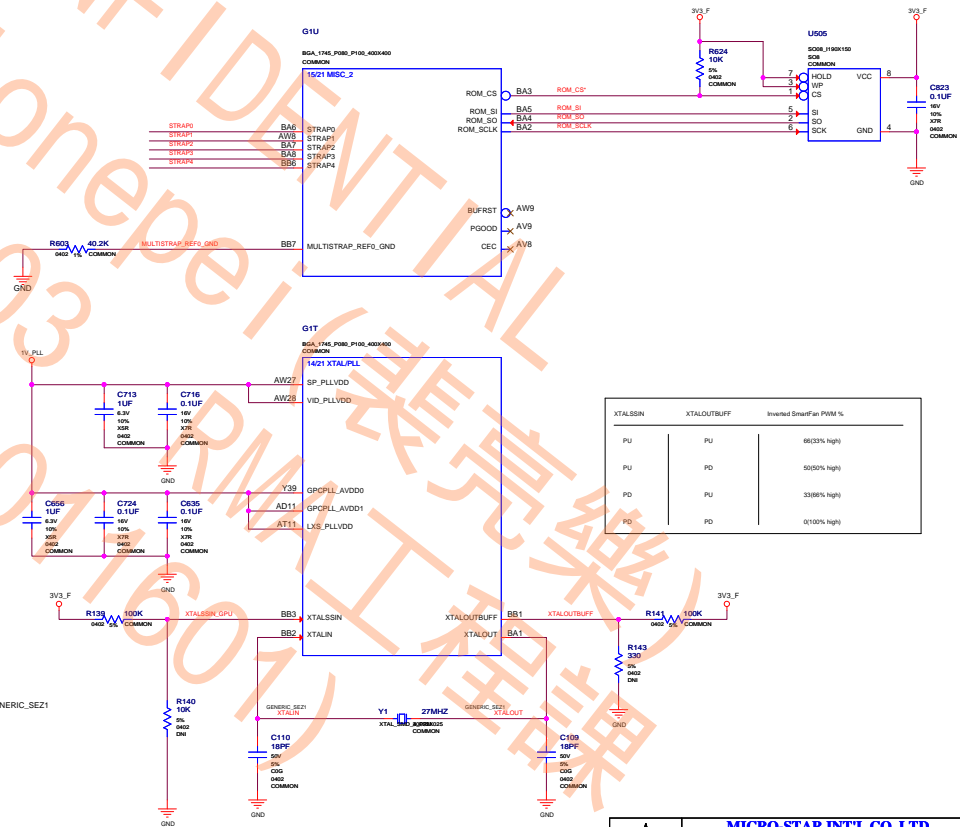
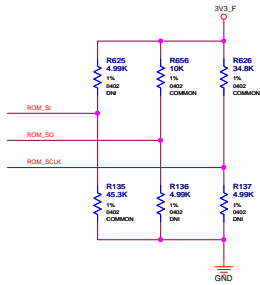
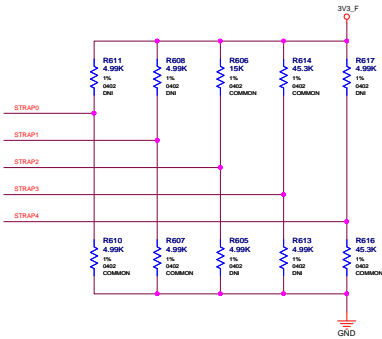
	MICRO-STAR INT'L CO.,LTD		
	MS-V284		
	Size	Document Description	Rev
	Custom	STEREO CONNECTOR	2.0
Date: Monday, March 26, 2012		Sheet 20 of 52	

STRAP0	USER_BIT [3:0]*	0000*	5K PD*
STRAP1	3GIO_PADCFG_LUT_ADR*	0000*	5K PD Desktop*
STRAP2	PCI_DEVID [3:0]*	1001 - (0x1189)*	10K PU ~325 GPU*
STRAP3	SOR_EXPOSED [3:0]*	1111*	45K PU*
STRAP4	DP_PLL_VDD_33V*	1* FOR 3_3V*	
	PEX_MAX_SPEED*	1* FOR GEN2/3*	45K PD*
	PEX_SPD_CHANGE_GEN3*	1* ENABLED*	
	*		
ROM_SI	RAMCFG[0]*	0*	
	RAMCFG[1]*	1*	64Mx32 256-bit Hynix for SML5 primary memory 35K PD*
	RAMCFG[2]*	1*	
	RAMCFG[3]*	0*	
ROM_SO	VGA_DEVICE*	1*	
	SMB_ALT_ADDR*	0*	30k PD*
	FB[0]_APERTURE_SIZE*	1* For 128MB*	
	FB[1]_APERTURE_SIZE*	0* For 128MB*	
ROM_SCLK	PEX_PLL_EN_TERM100*	0* DISABLE*	
	PCI_DEVID_EXT[5]*	0* For 0x1189*	25K PD*
	SUB_VENDOR*	1* Dedicated BIOS*	
	PCI_DEVID_EXT[4]*	0* For 0x1189*	

	GND	3V3
5k	0000	1000
10k	0001	1001
15k	0010	1010
20k	0011	1011
25k	0100	1100
30k	0101	1101
35k	0110	1110
45k	0111	1111

CFG[3:0] Config Width	Vendor
0000	Reserved
0001	32Mx32 256-bit Elpida
0010	32Mx32 256-bit Hynix
0011	32Mx32 256-bit Samsung
0100	Reserved
0101	64Mx32 256-bit Elpida
0110	64Mx32 256-bit Hynix
0111	64Mx32 256-bit Samsung

	MULTI_STRAP_REF0_GND
BINARY PRODUCTION	NC
BINARY BRINGUP	NC
MULTI-LEVEL	40.2K 1% TO GND



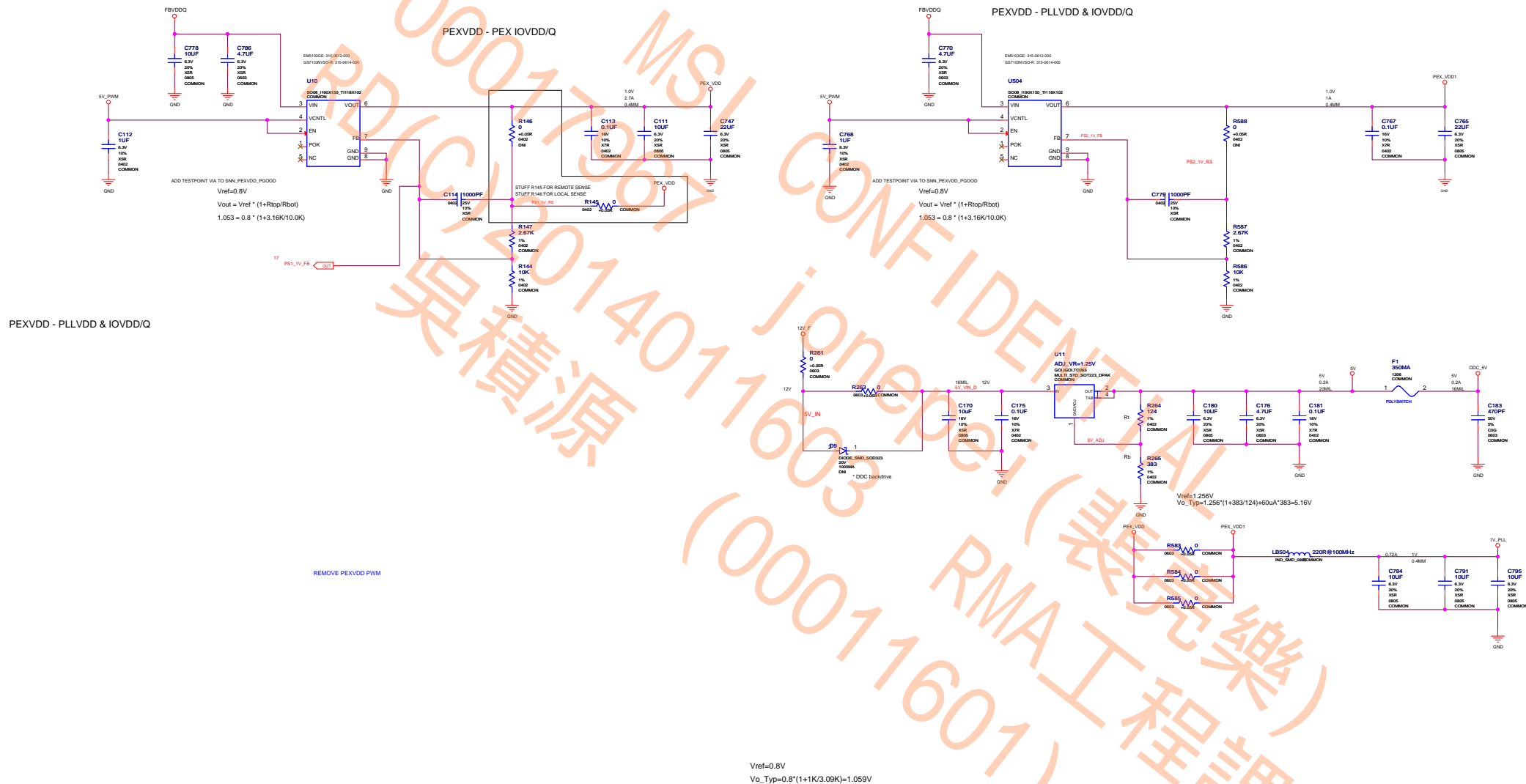
XTALSSIN	XTALOUTBUFF	Inverted SmartFan PWM %
PU	PU	66(33% High)
PU	PD	50(50% High)
PD	PU	33(66% High)
PD	PD	0(100% High)



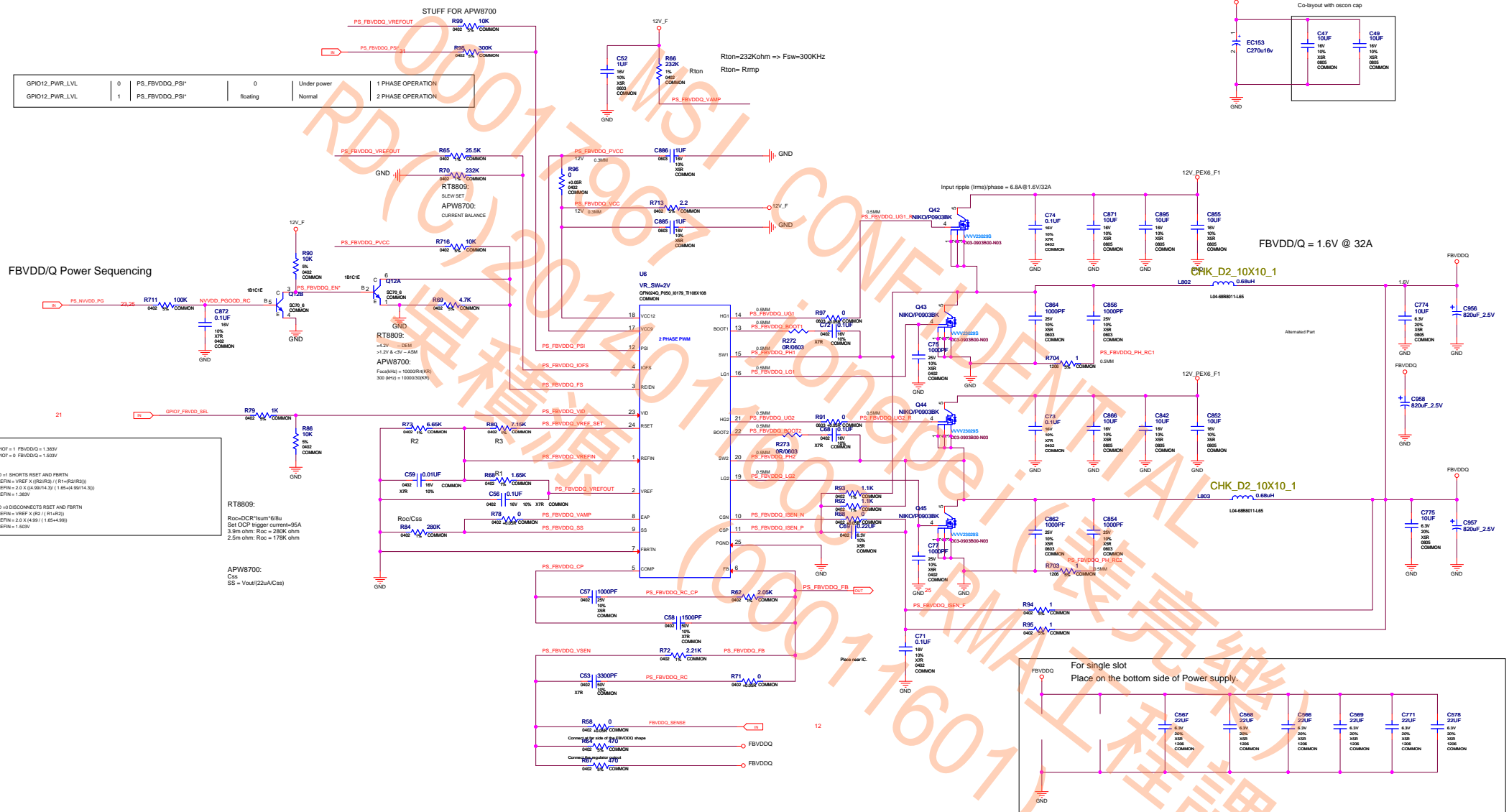
MICRO-STAR INT'L CO.,LTD

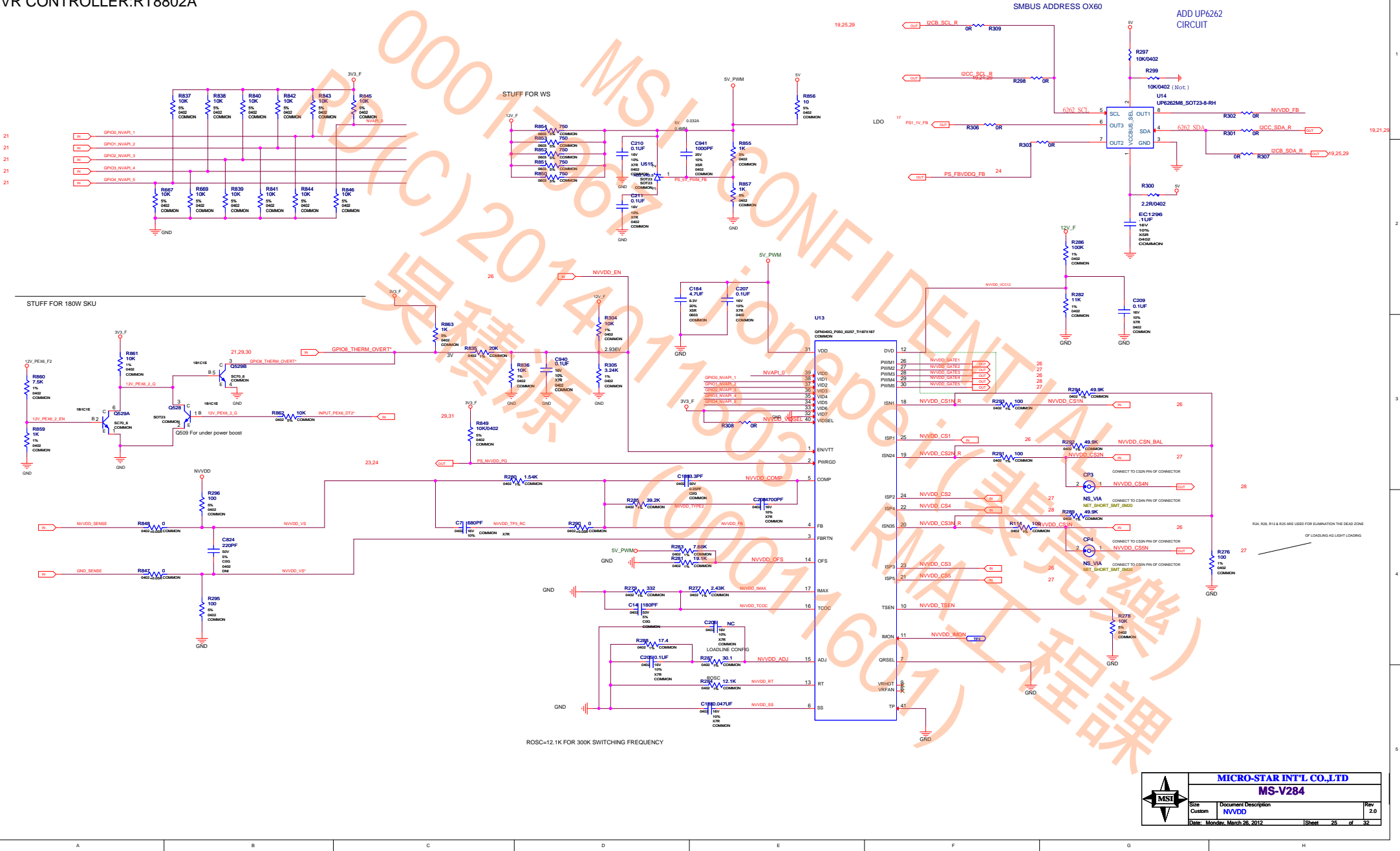
MS-V284

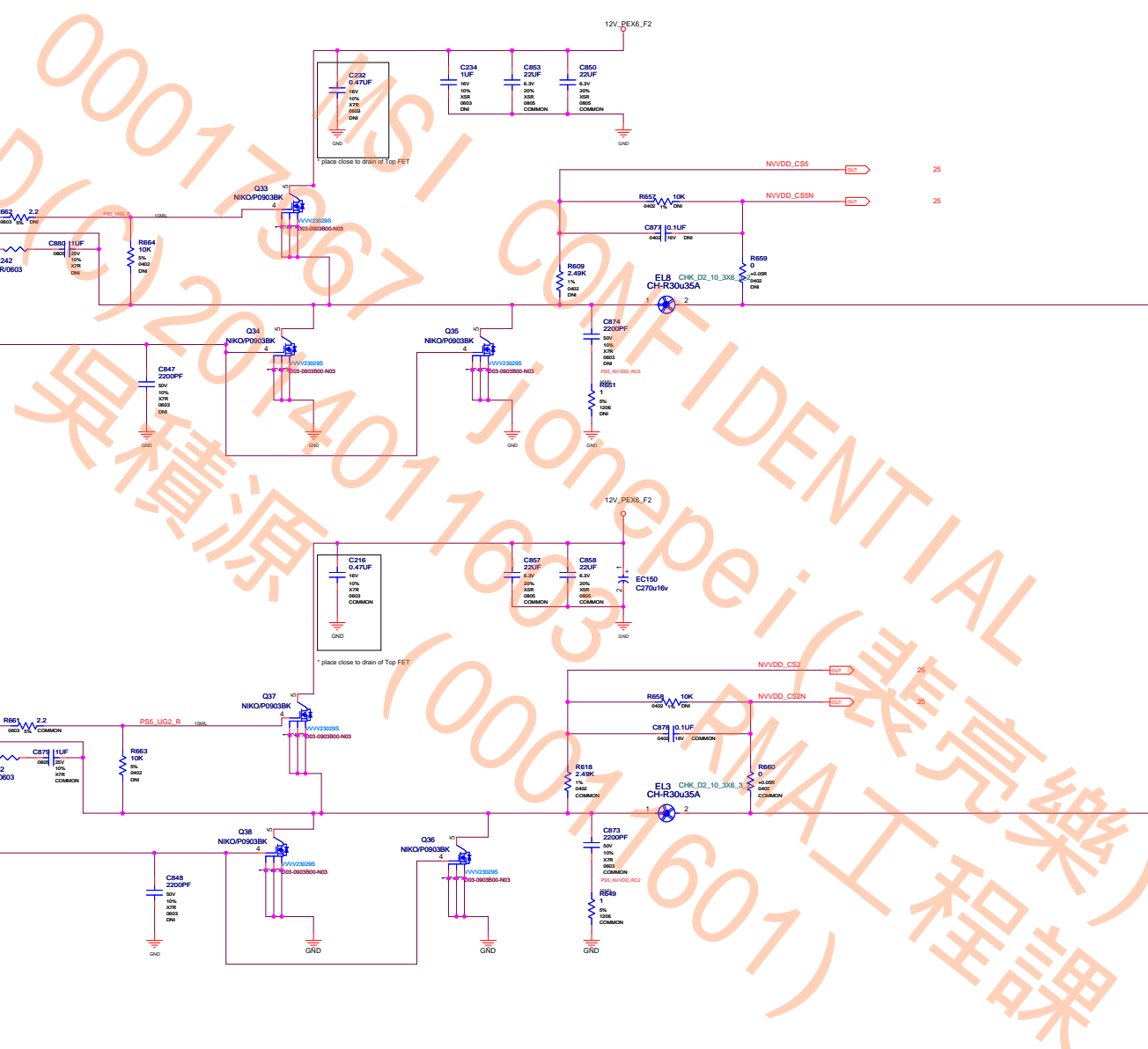
Size	Custom	Document Description	ROM XTAL STRAPS	Rev	2.0
Date:	Monday, March 26, 2012	Sheet	22	of	32

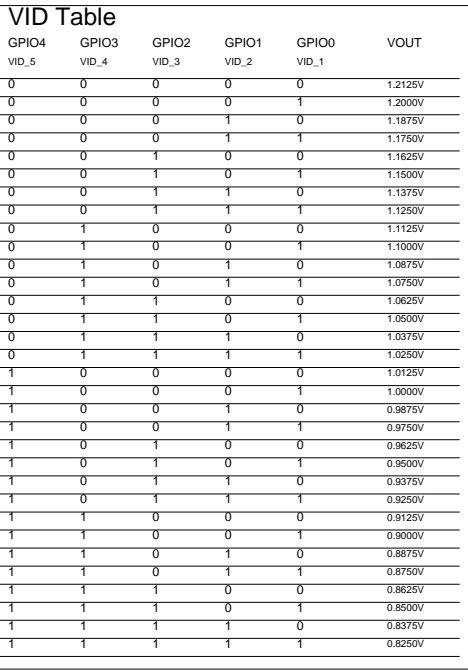


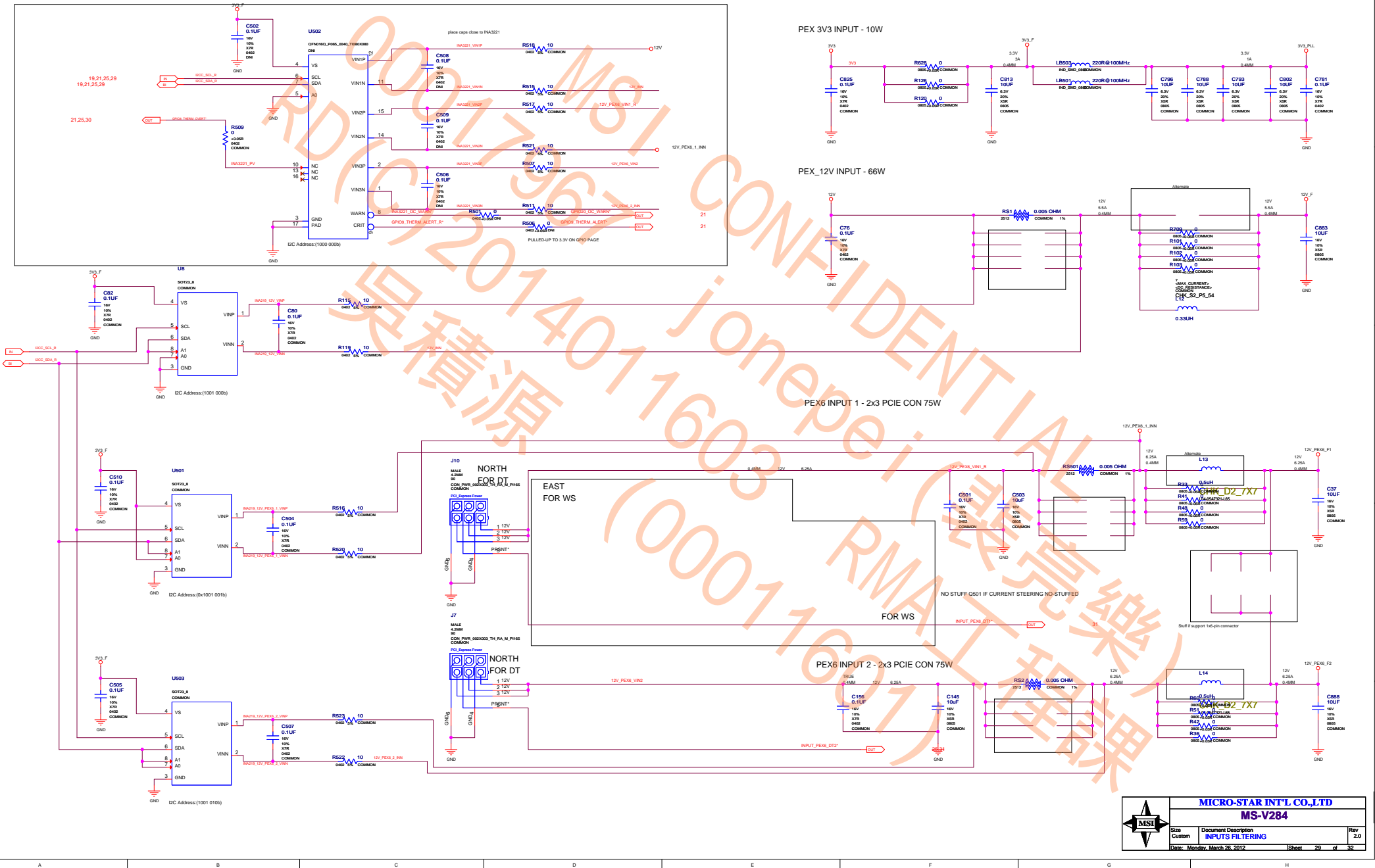
	MICRO-STAR INT'L CO.,LTD		
	MS-V284		
	Size Custom	Document Description 5V PEKVDD	Rev 2.0
Date: Monday, March 26, 2012		Sheet 23 of 32	











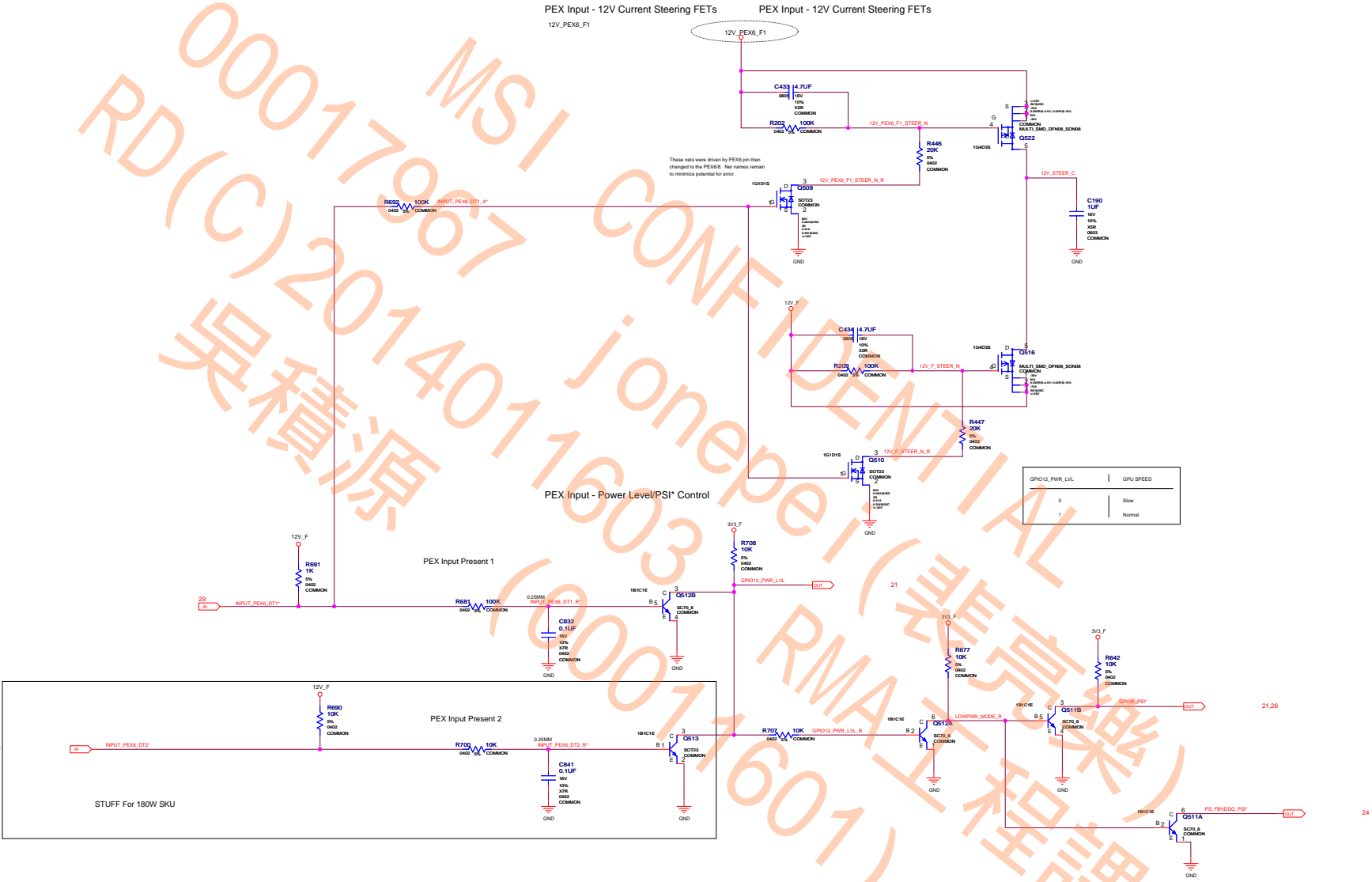


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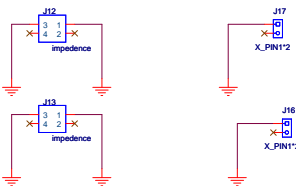
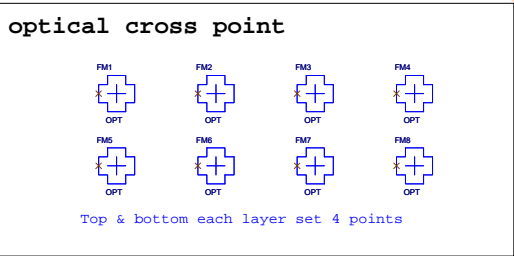
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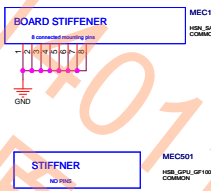




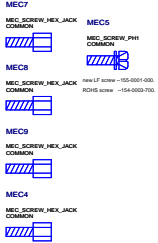
Brackets:



GPU Stiffener:



HDMI_FEE



MOUNTING HOLES FOR HS:

