

PG161-A00

TU106 6GB GDDR6, 192b, X16 DVI-D/DP + DP + HDMI

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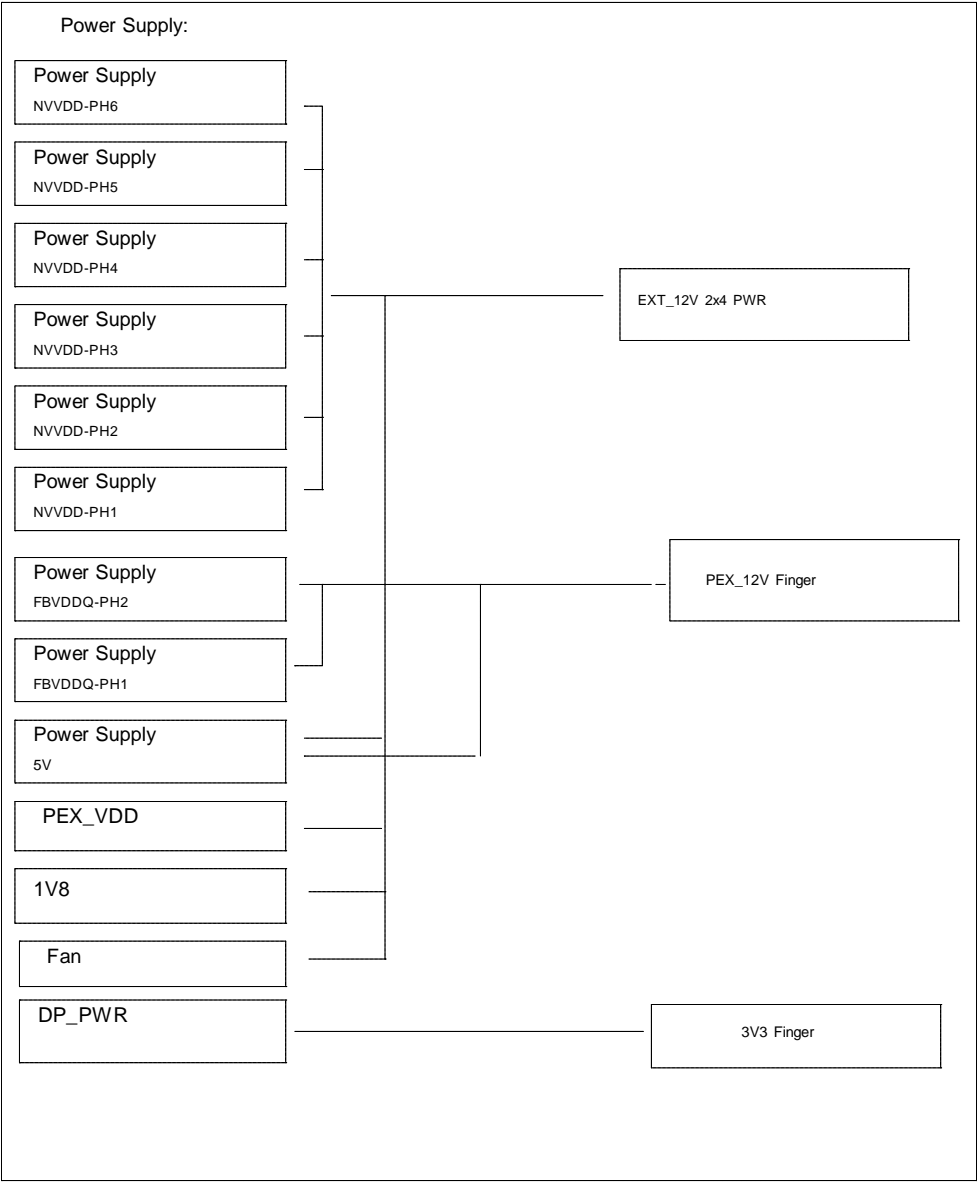
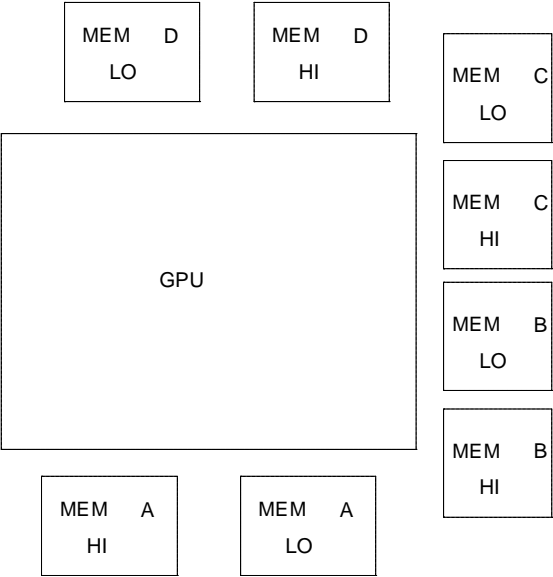
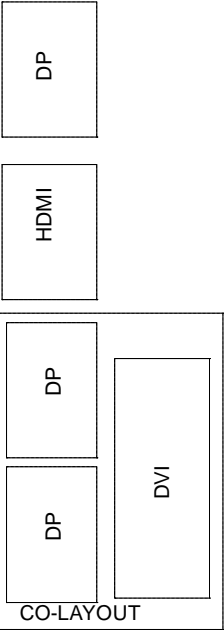
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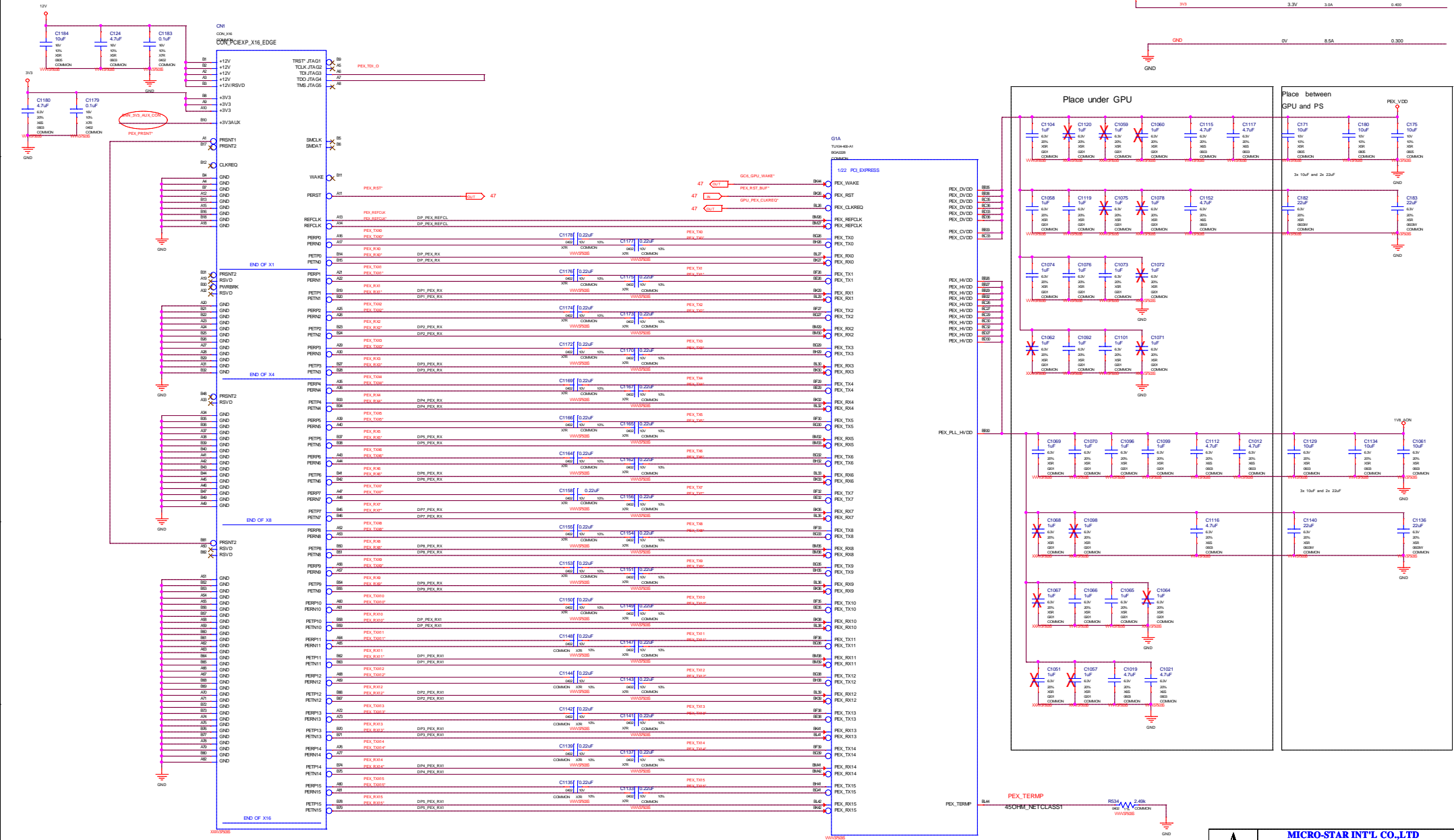
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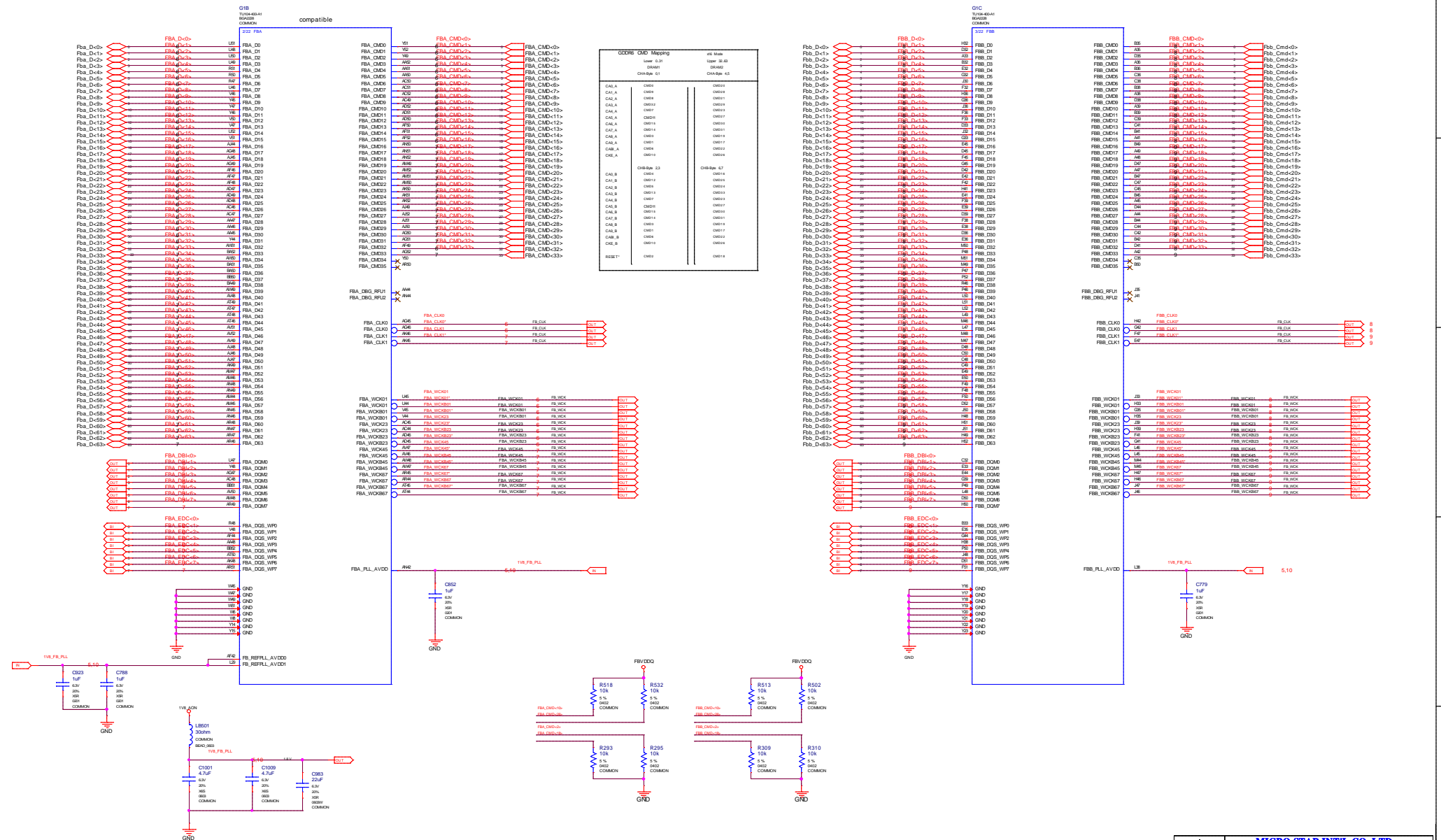


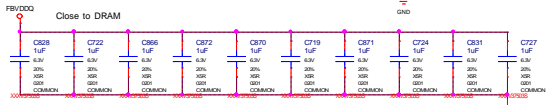
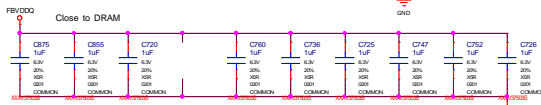
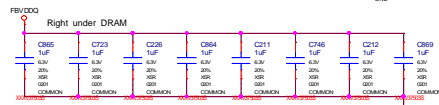
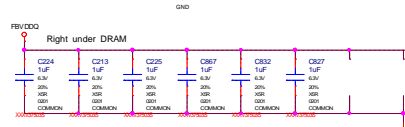
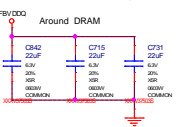
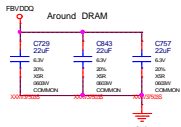
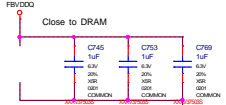
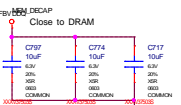
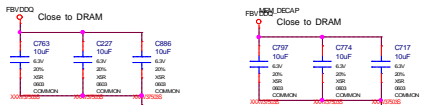
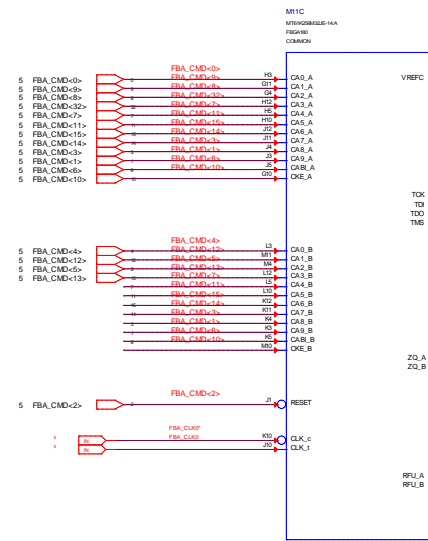
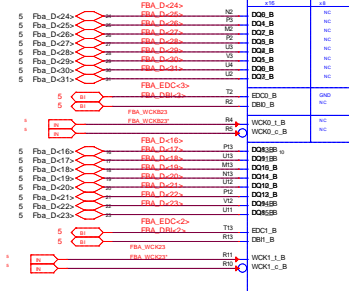
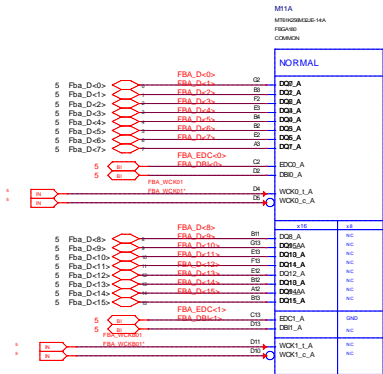


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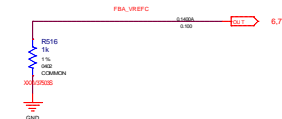


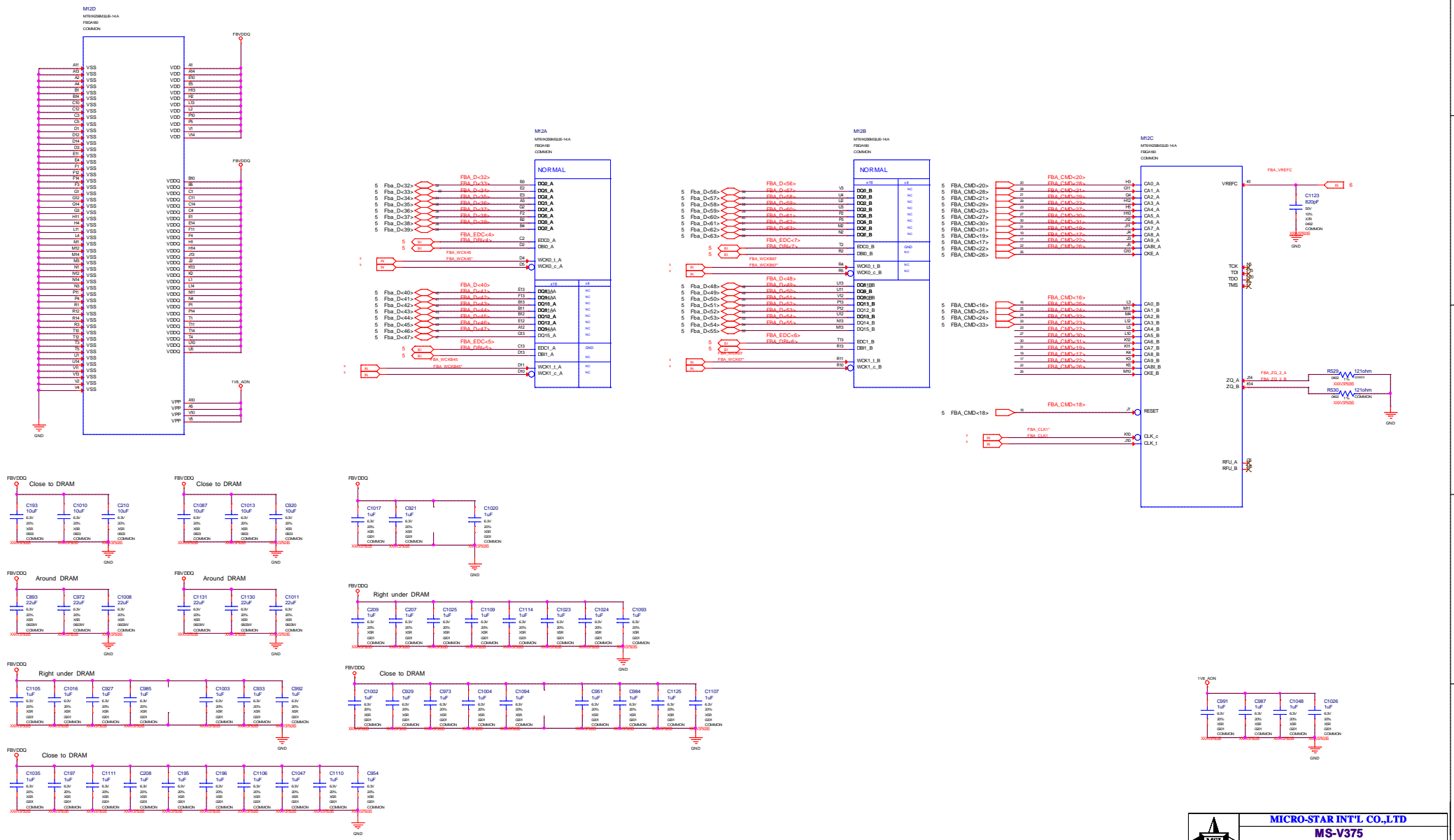
MICRO-STAR INT'L CO.,LTD		
MS-V375		
Size	Document Description	Rev
Custom	PCIE RC TERM	3.0
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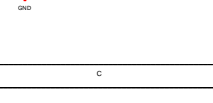
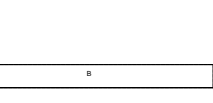
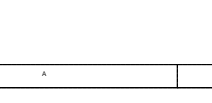
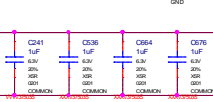
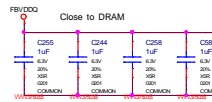
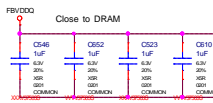
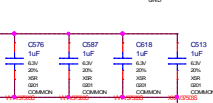
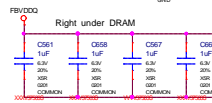
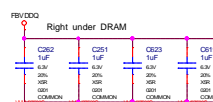
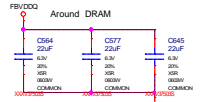
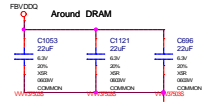
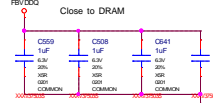
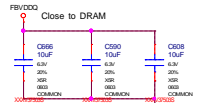
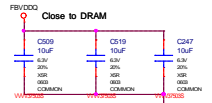
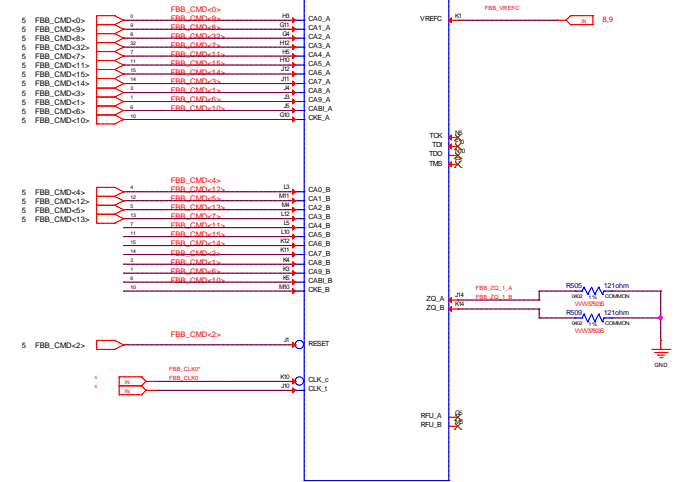
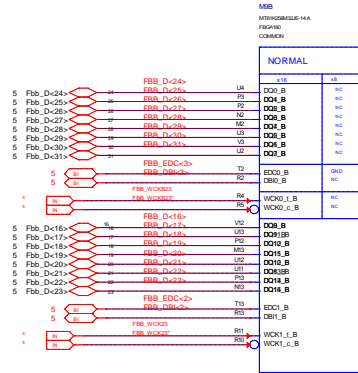
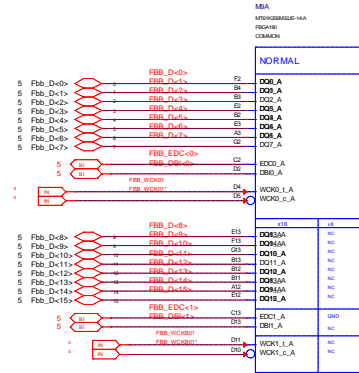
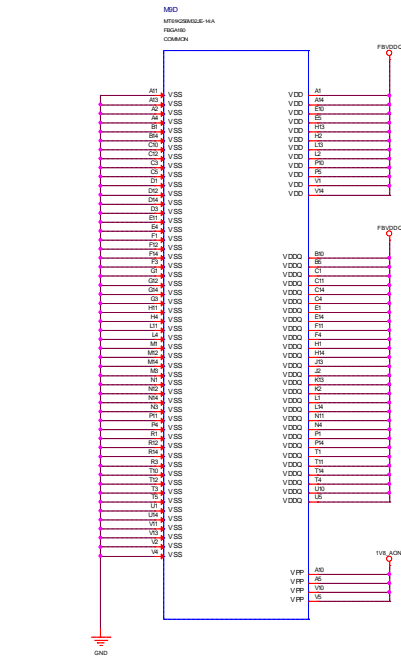




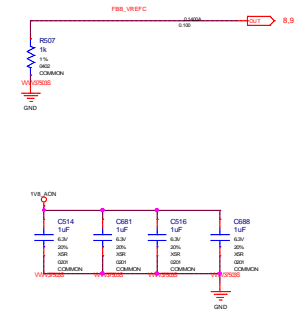
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1K OHM PULL-DOWN IS IN PLACE OF THE 1.33K FOR R106

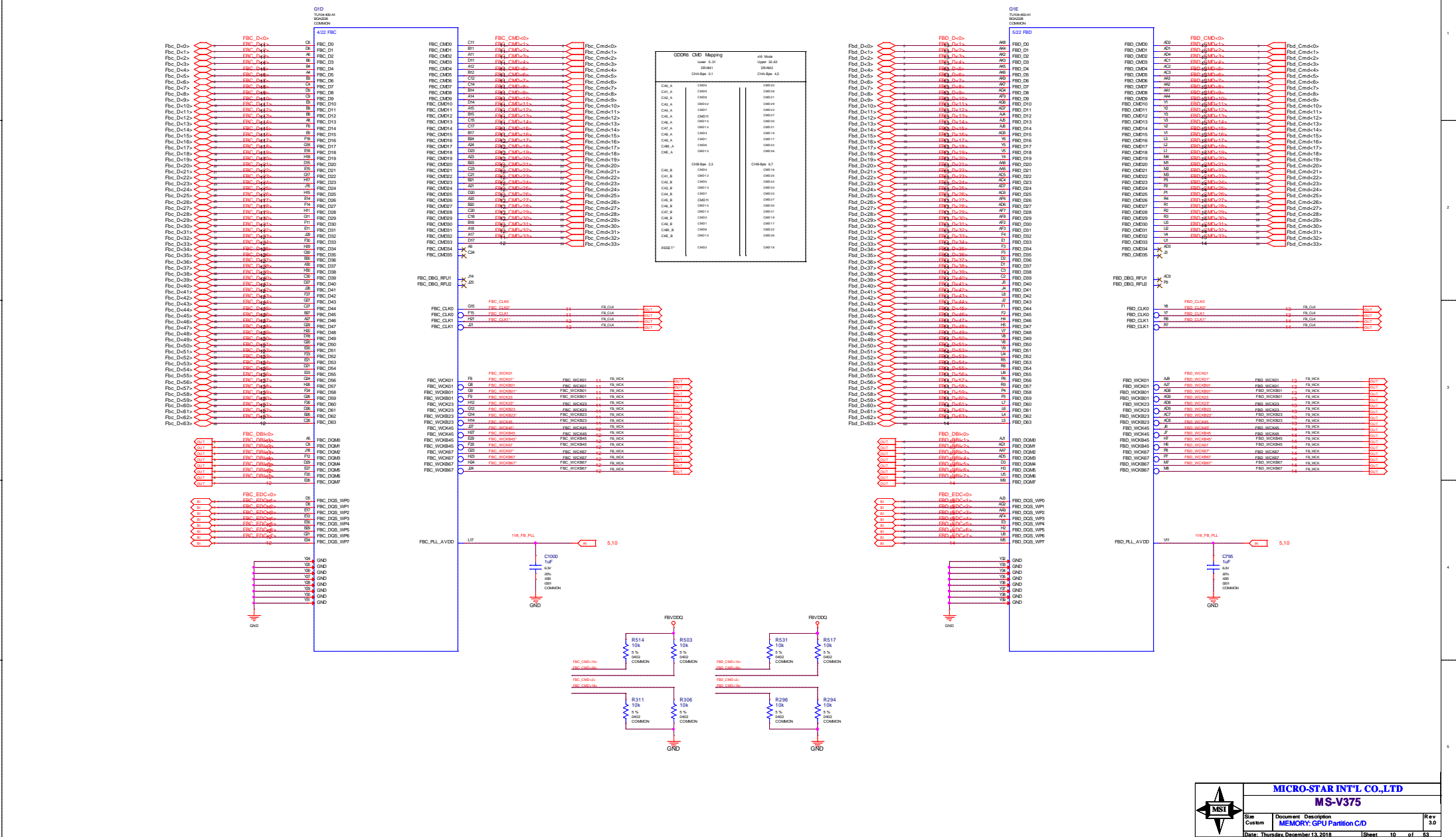


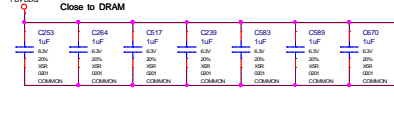
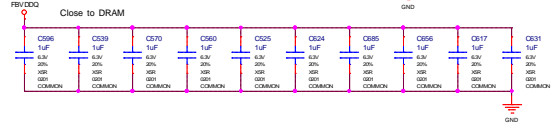
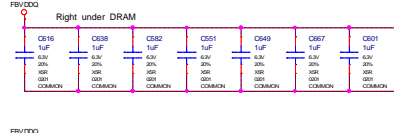
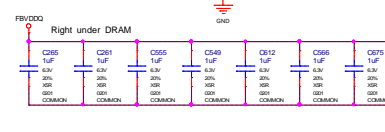
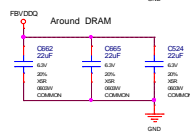
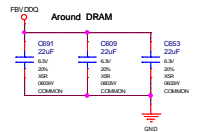
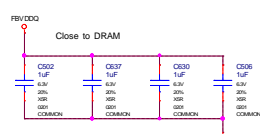
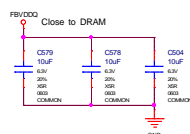
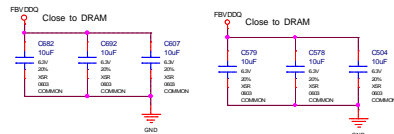
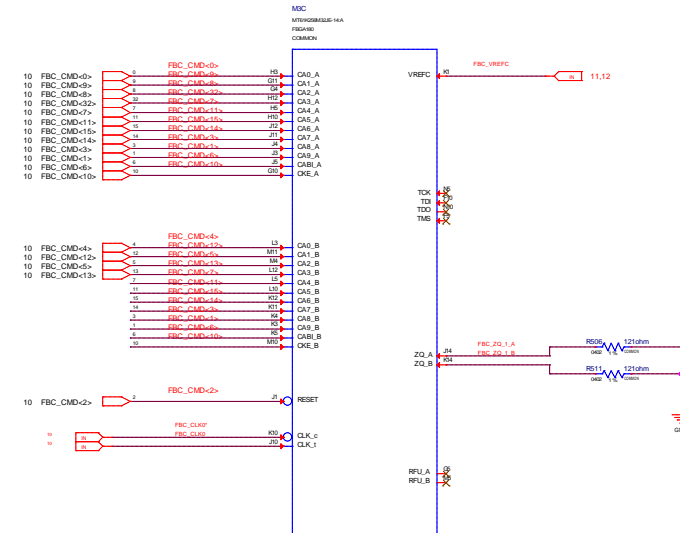
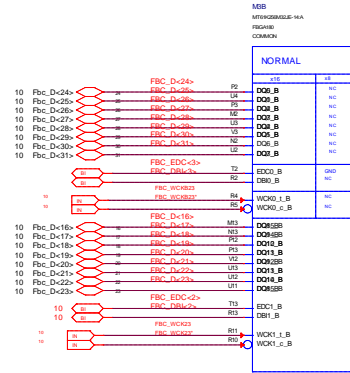
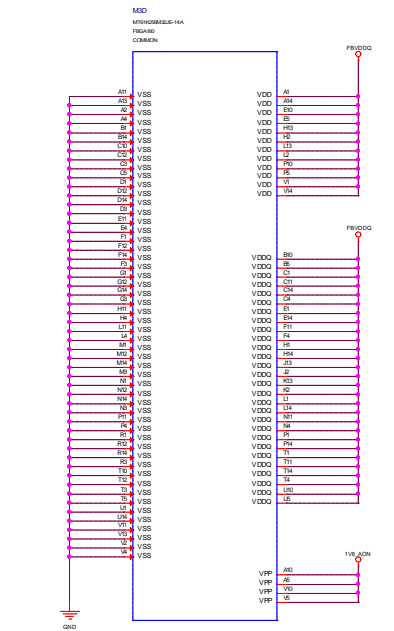




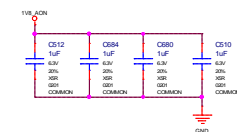
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1K OHM PULL-DOWN IS
IN PLACE OF THE 1.33K
FOR R104

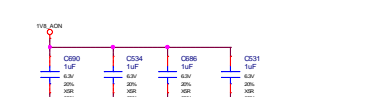
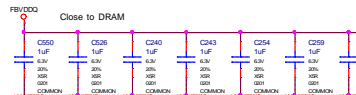
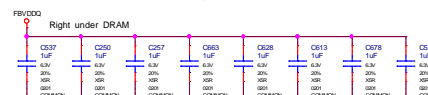
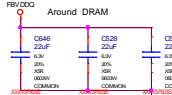
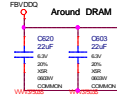
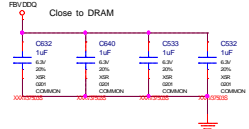
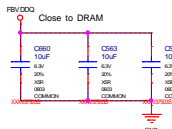
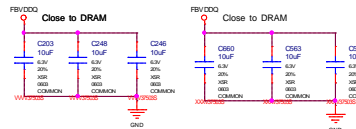
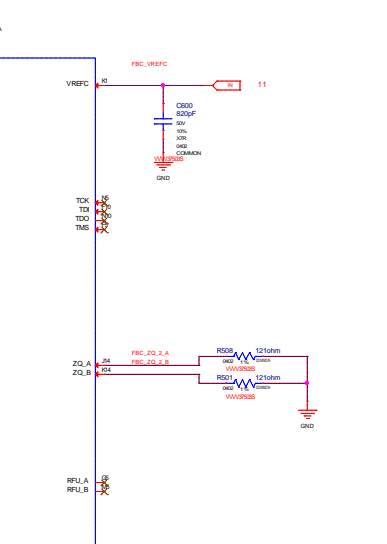
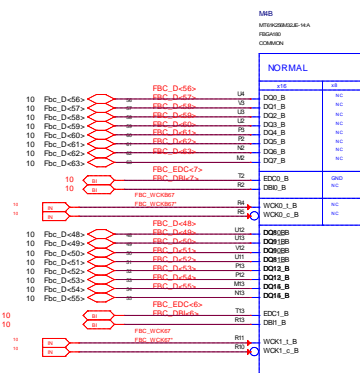
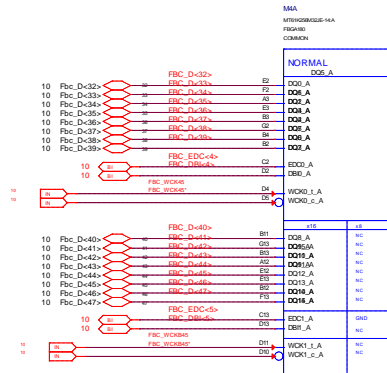


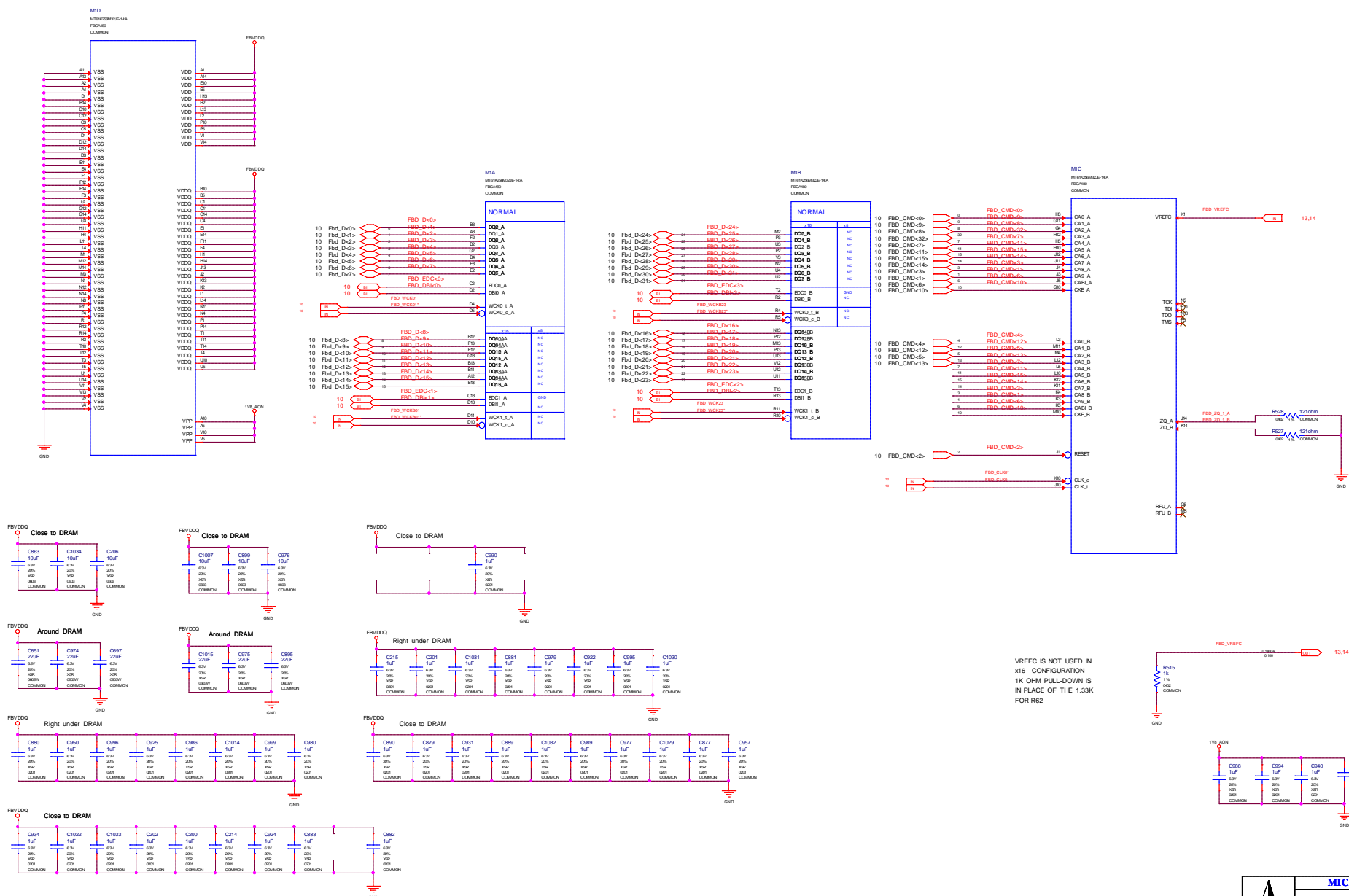


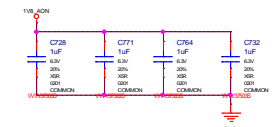
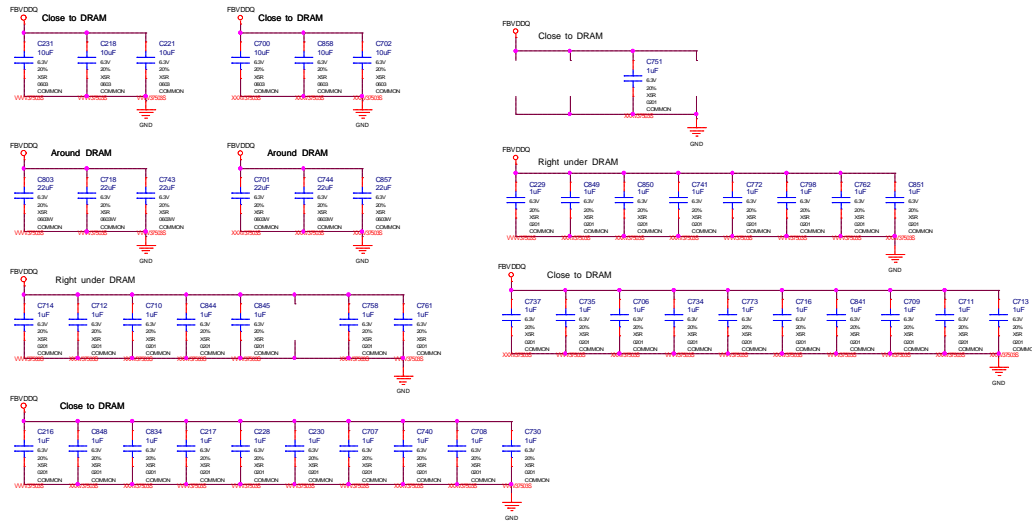
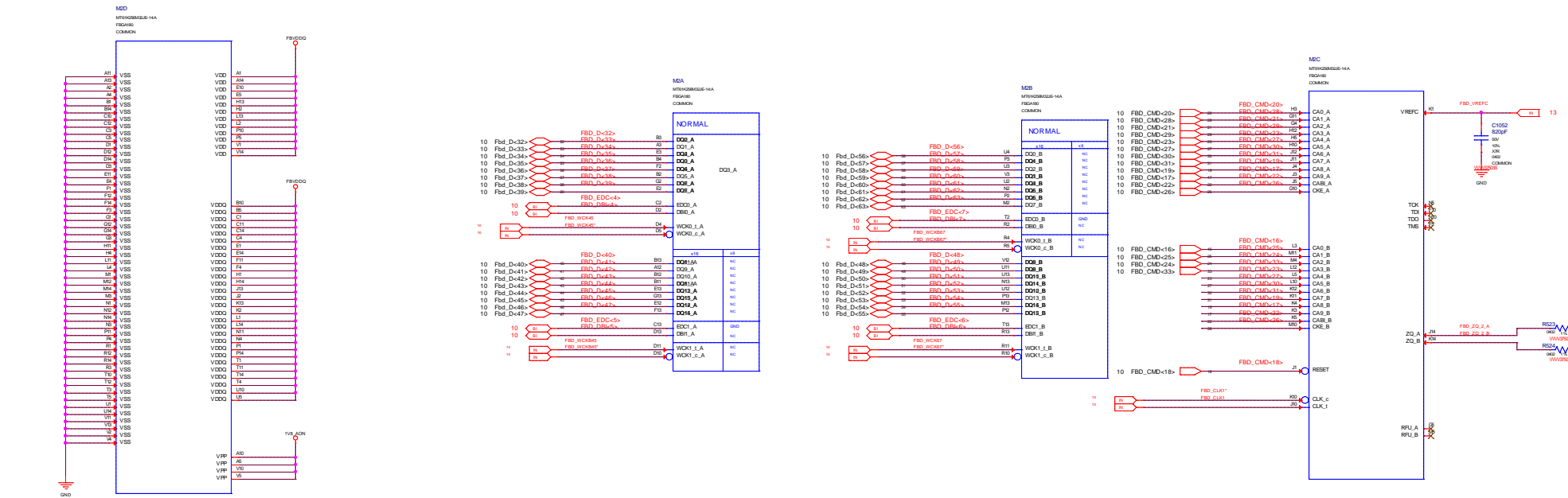


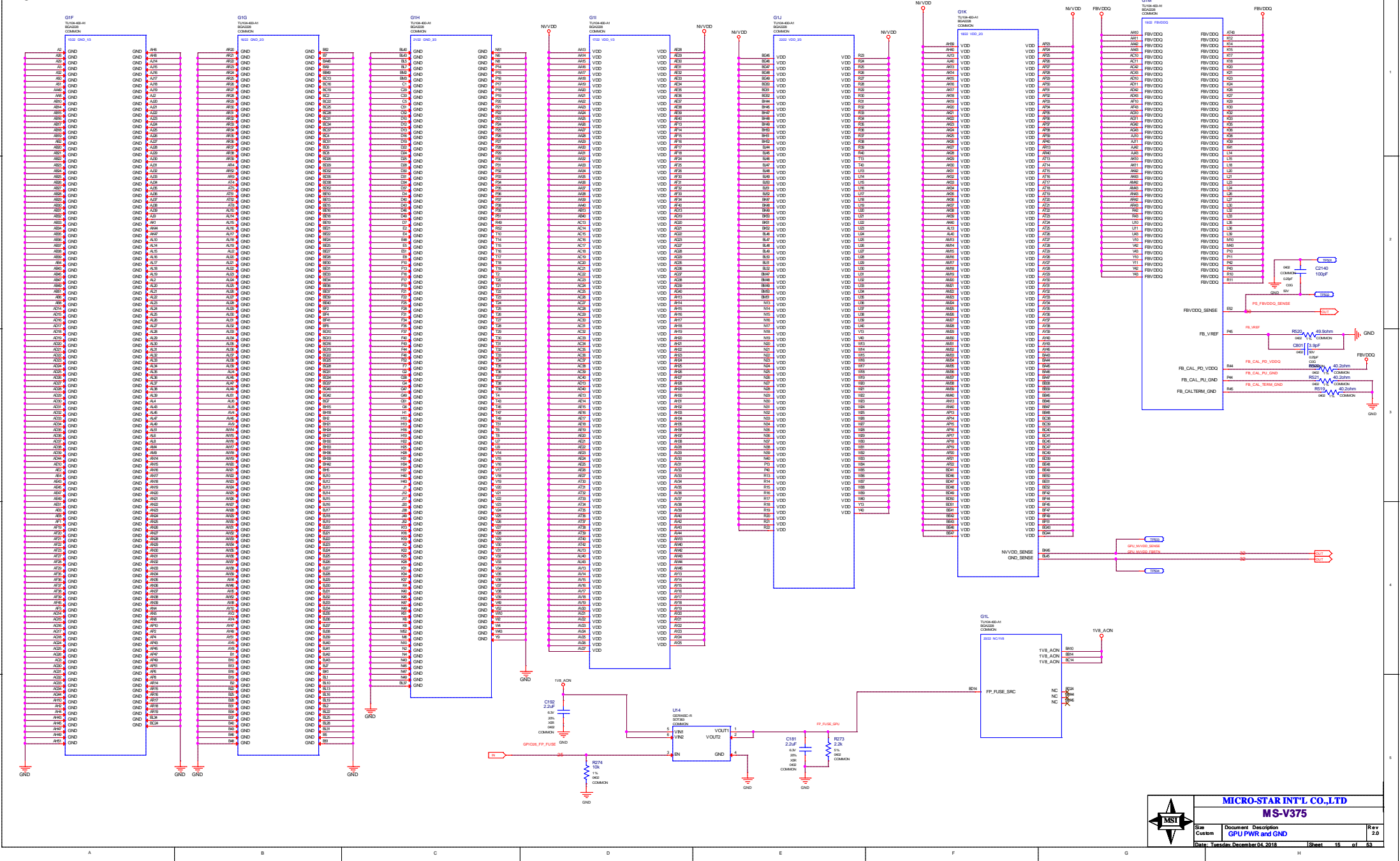
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1K OHM PULL-DOWN IS
IN PLACE OF THE 1.33K
FOR R75



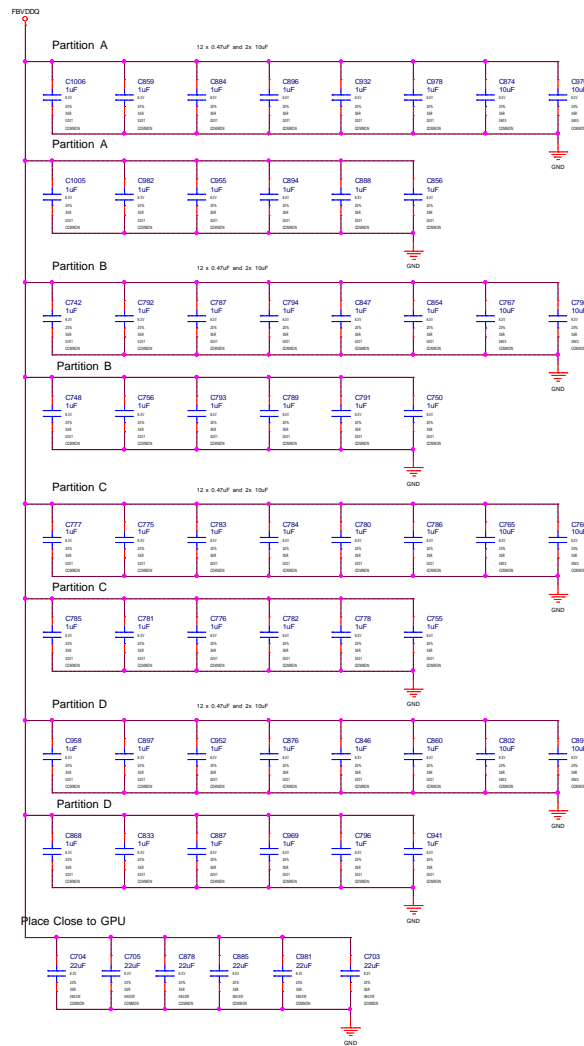




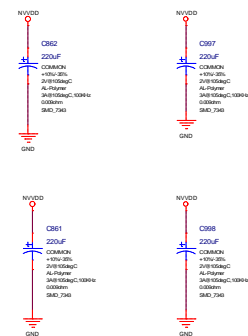




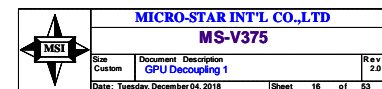
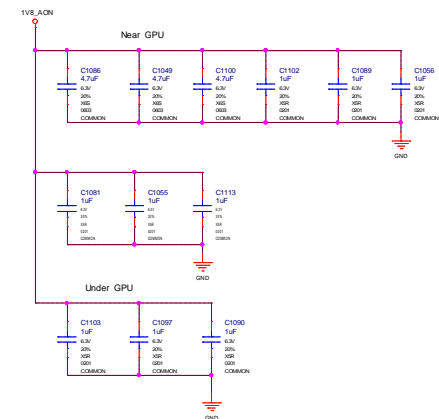
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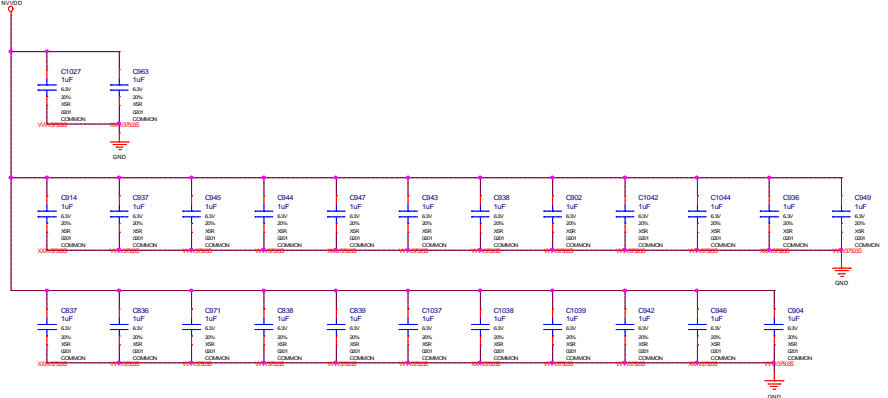
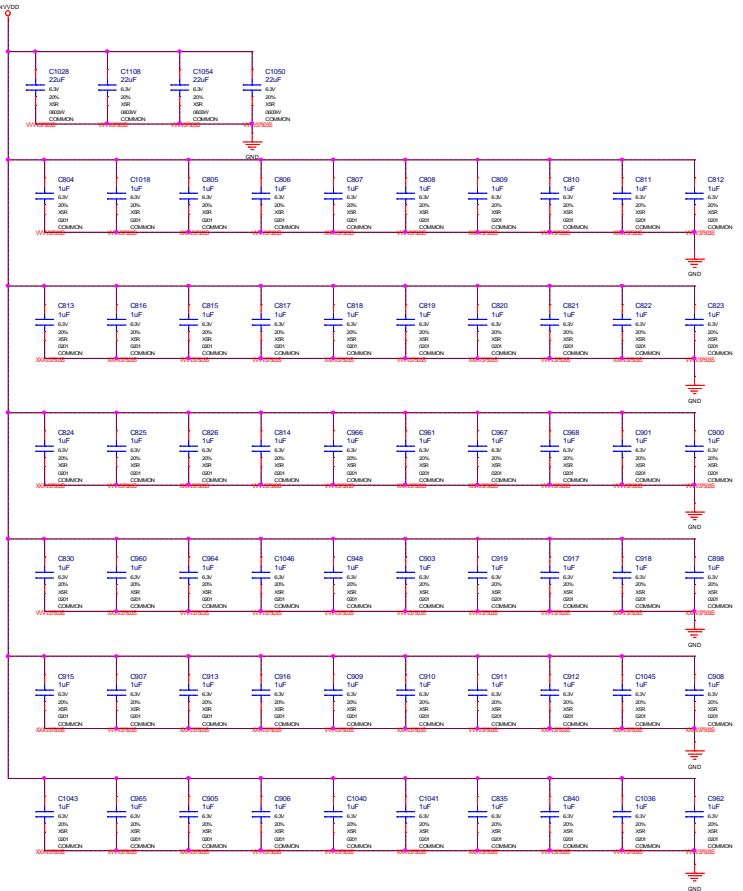
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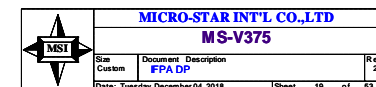
1V8_AON



NVDD



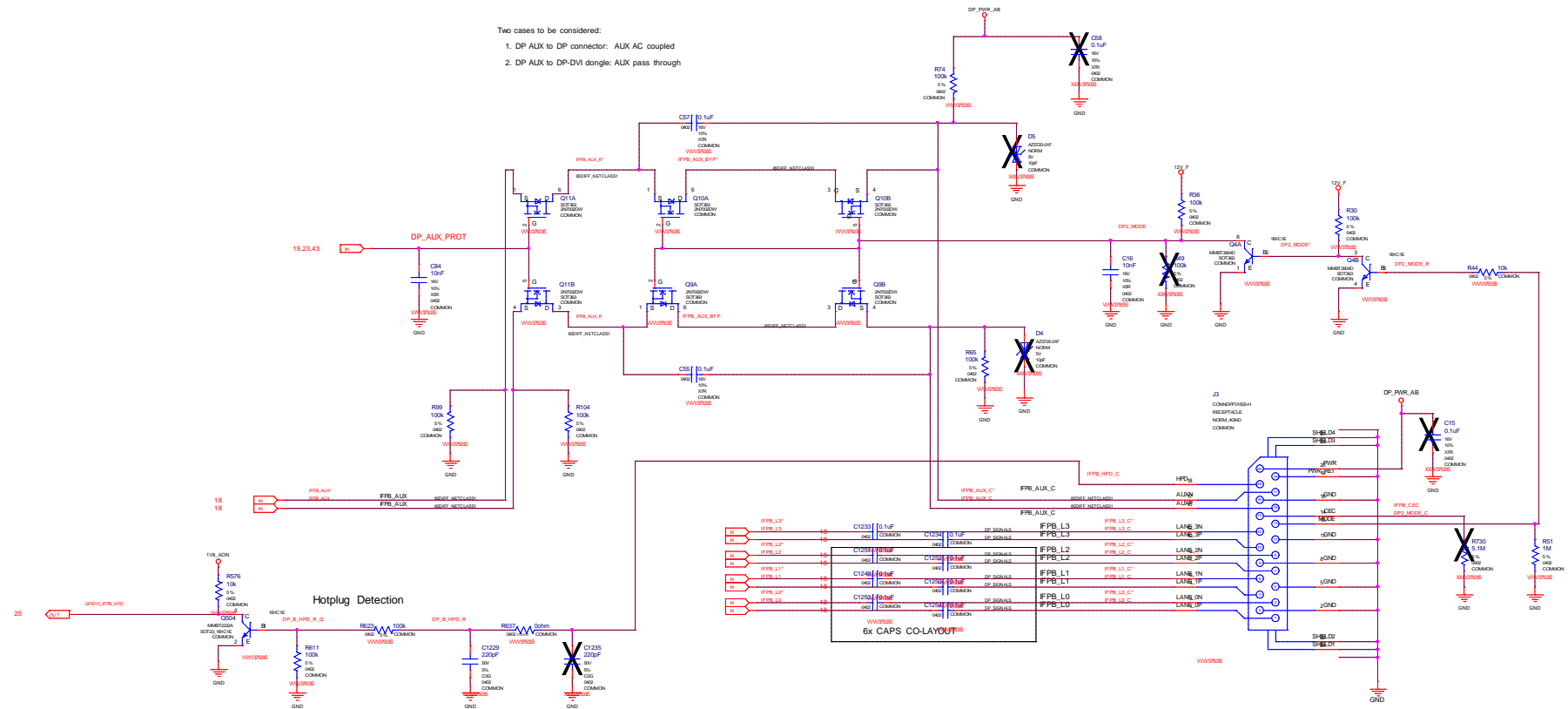




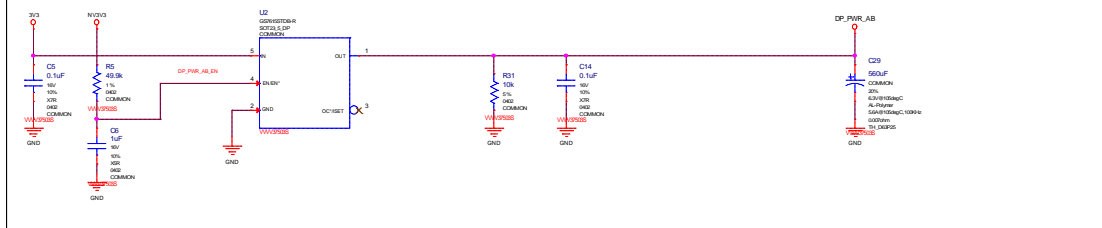
IFPB DP CO-LAYOUT WITH IFPAB DVI-D-DL

Two cases to be considered:

1. DP AUX to DP connector: AUX AC coupled
2. DP AUX to DP-DVI dongle: AUX pass through

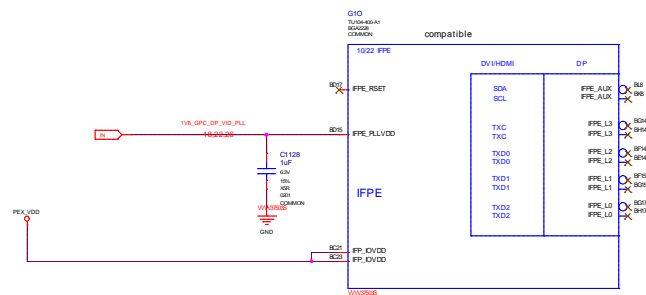
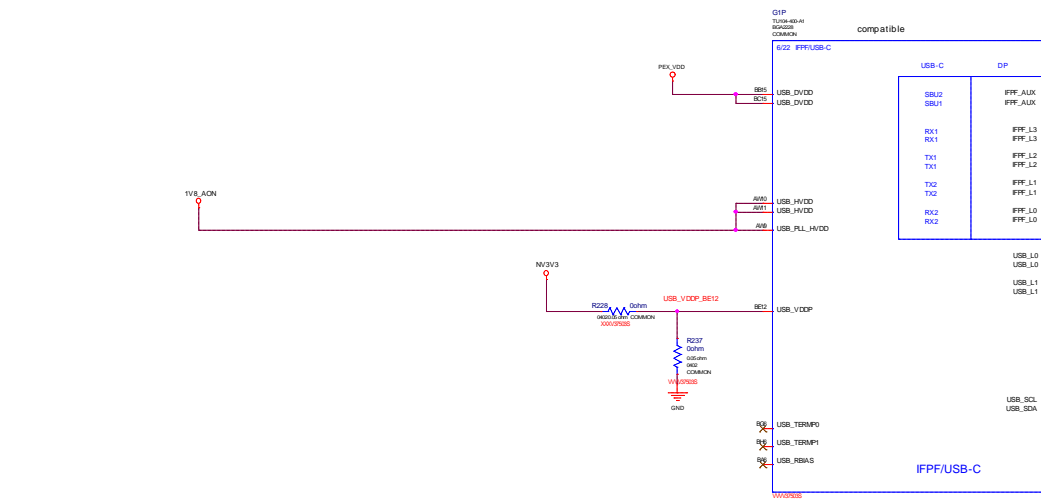


Fused DP_PWR



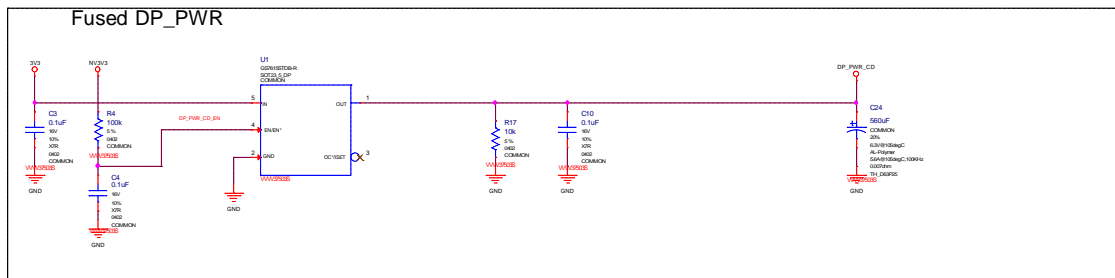
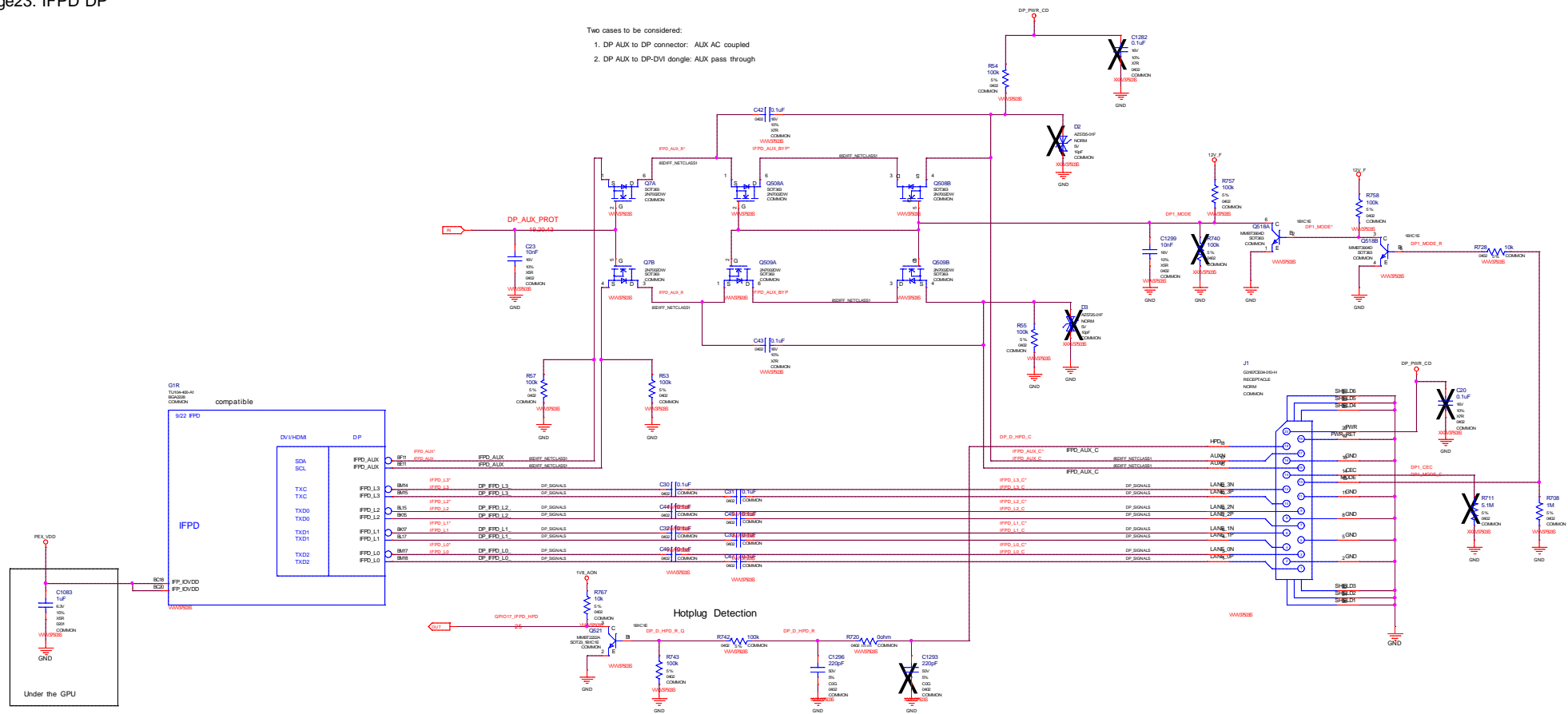
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MS-V375

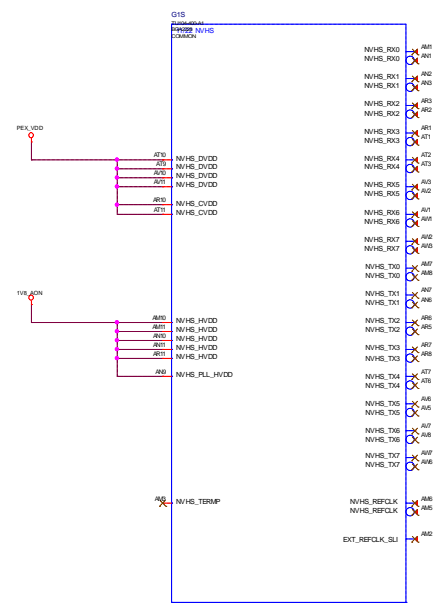
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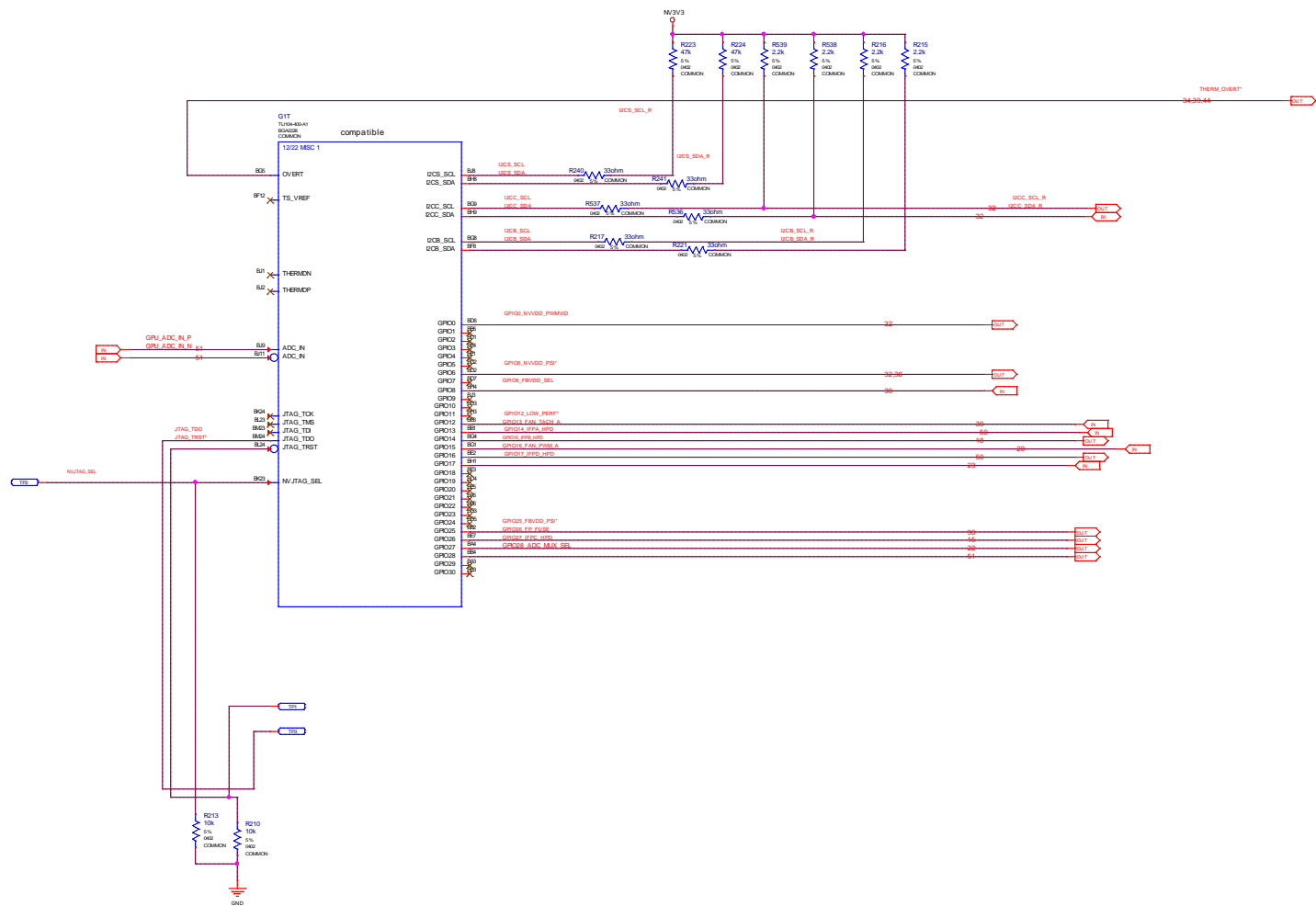


IFPE NC

- Two cases to be considered:
1. DP AUX to DP connector: AUX AC coupled
 2. DP AUX to DP-DVI dongle: AUX pass through







STRAP2	STRAP1	STRAP0	RAMCFG[4:0]
L	L	L	00000
L	L	H	00001
L	H	L	00010
L	H	H	00011
H	H	L	00110
H	H	H	00111
L	L	M	01000

RAMCFG[4:0]	DENSITY	WIDTH	VENDOR	DIE
00000	8Gb	256-bit	Samsung	C
00001	8Gb	256-bit	Micron	A
00010	8Gb	256-bit	Hynix	M
00011	8Gb	256-bit	Samsung	C
00100	8Gb	256-bit	Micron	A
00101	8Gb	256-bit	Hynix	M
00110	16Gb	256-bit	Samsung	M
00111				

ROM_SO	ROM_SI	ROM_SCLK	DUMMY[2:0].FS_OVERT	1.ENABLE 0.DISABLE	DEFAULT
L	L	L	XXX1	FS_OVERT ENABLE	
L	L	M	XXX0	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	L	M	1	0	0	0
H	H	H	0	1	1	1
H	H	L	0	1	1	0
H	L	H	0	1	0	1
H	L	L	0	1	0	0
L	H	H	0	0	1	1
L	H	L	0	0	1	0
L	L	H	0	0	0	1 DEFAULT
L	L	L	0	0	0	0

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

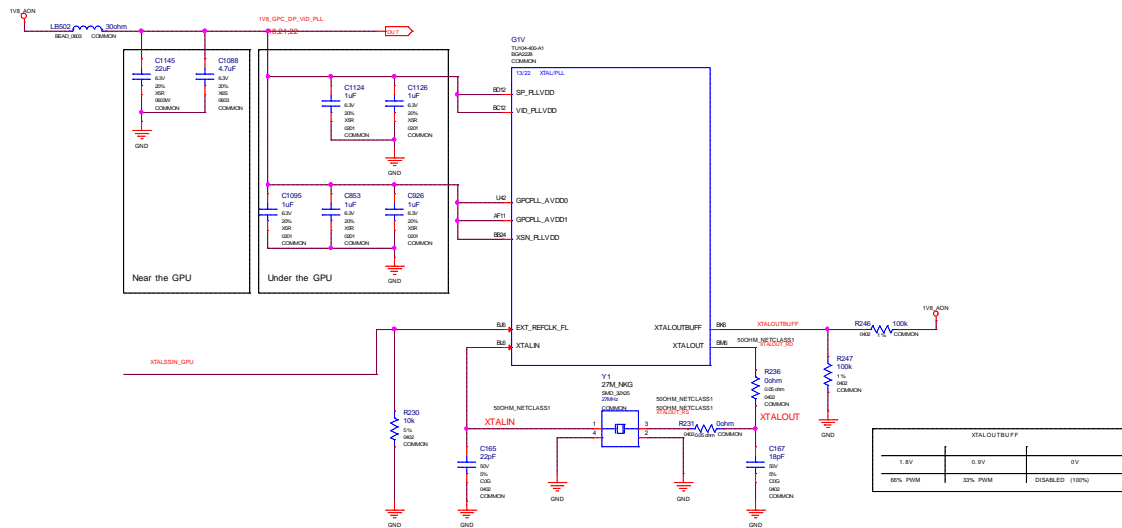
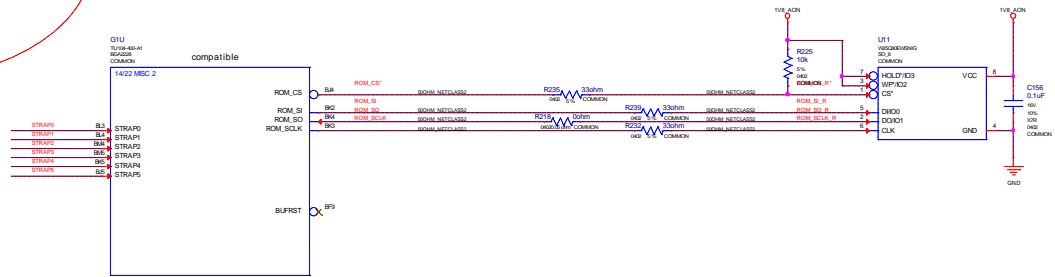
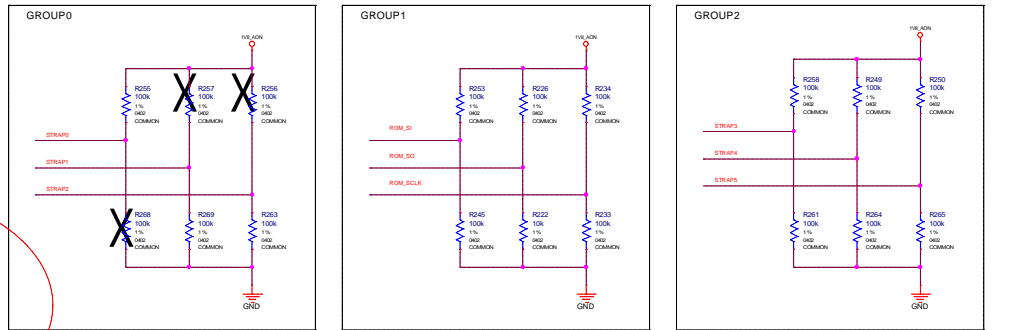
1:SMB_ALT_ADDR ENABLE
0:SMB_ALT_ADDR DISABLE

1:DEVID_SEL REBRAND
0:DEVID_SEL ORIGINAL

1:PCIE_CFG LOW POWER
0:PCIE_CFG HIGH POWER

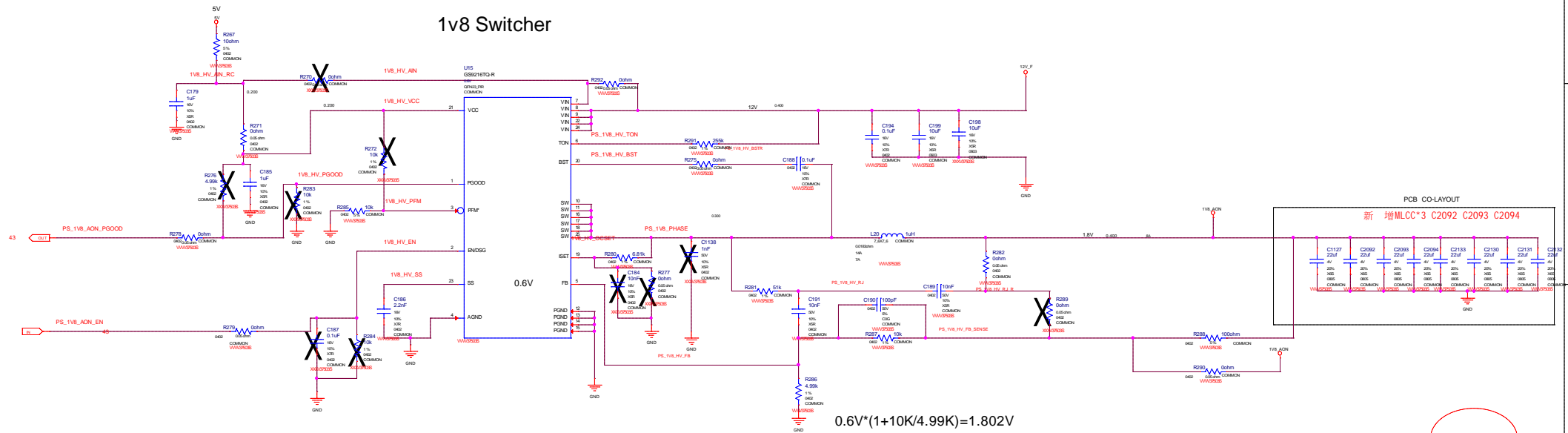
1:VGA_DEVICE ENABLE
0:VGA_DEVICE DISABLE

注意上件的MEM Straps



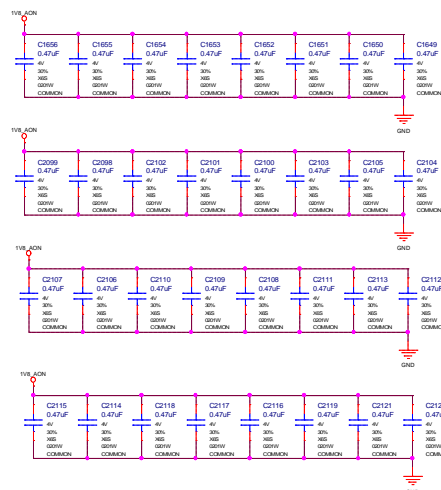
XTALOUTBUFF		
1.8V	0.9V	0V
80% PWM	30% PWM	DISABLED (100%)

1v8 Switcher



$$0.6V \cdot (1 + 10K/4.99K) = 1.802V$$

10/26 Remove Colay



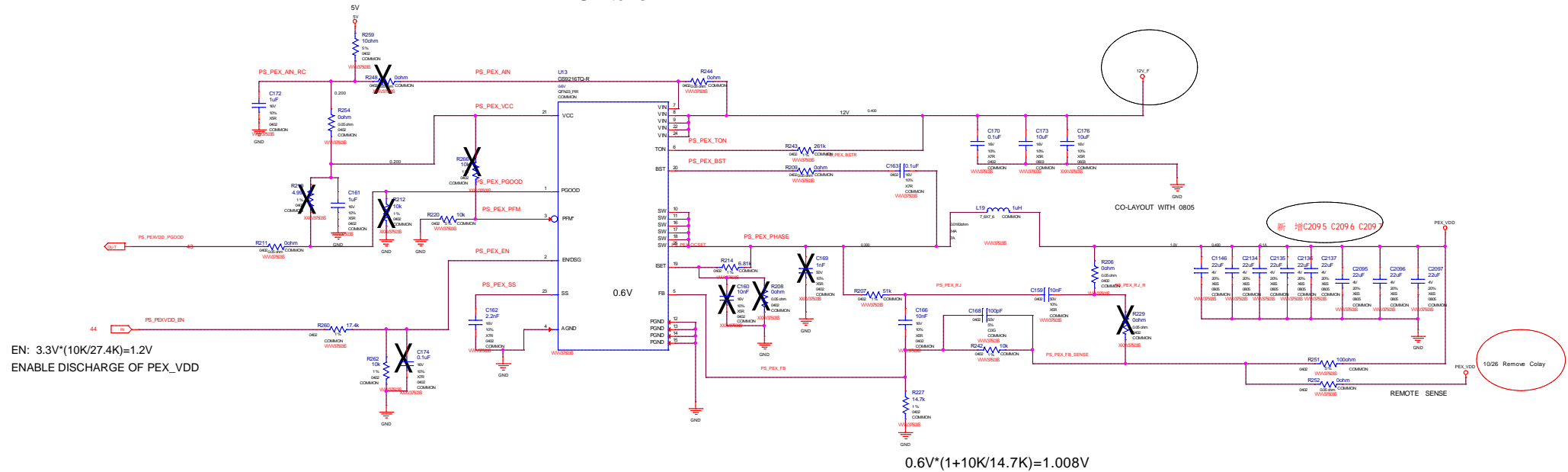
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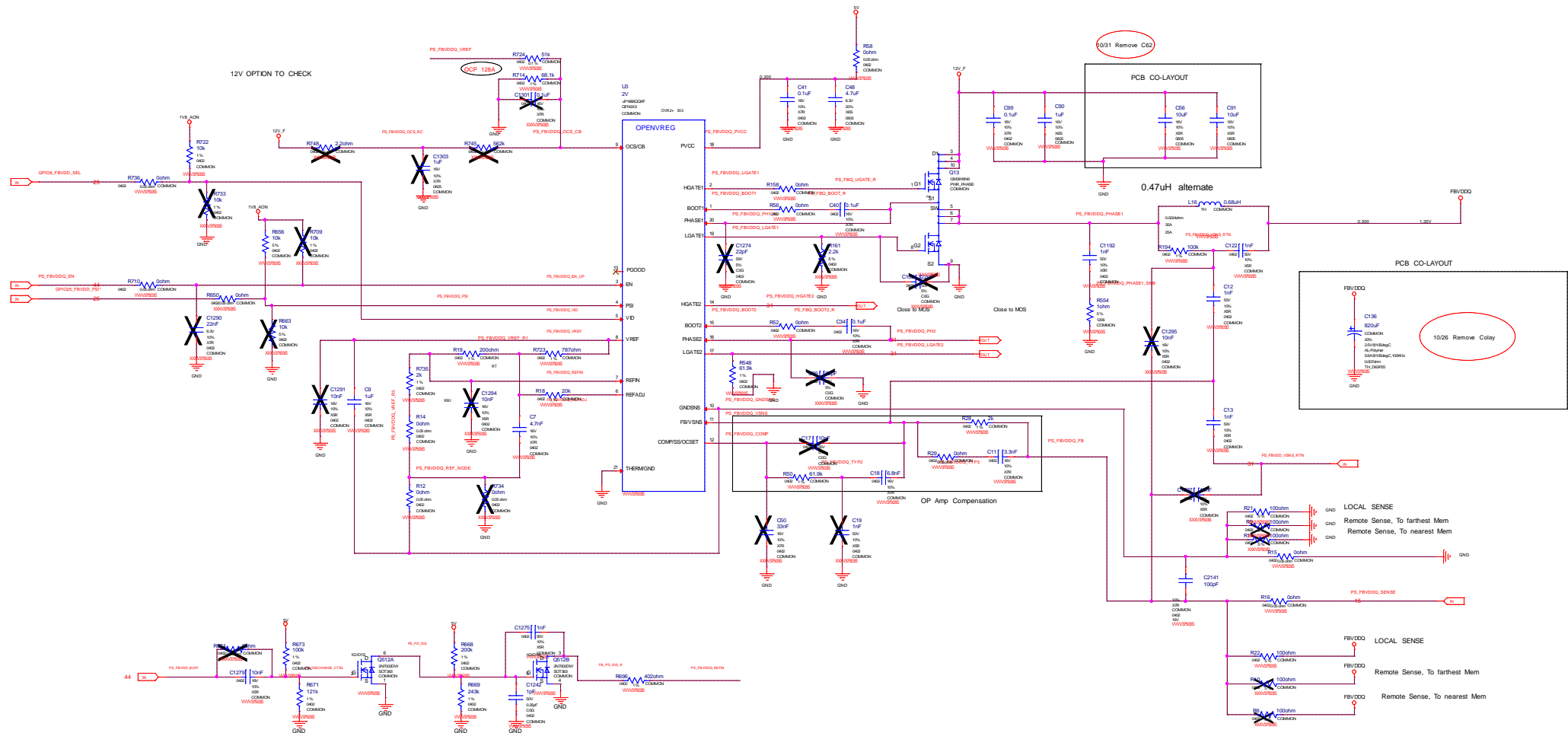
MS-V375

Size Custom	Document Description PS: 1V8_AON	Rev 2.0
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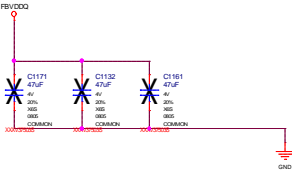
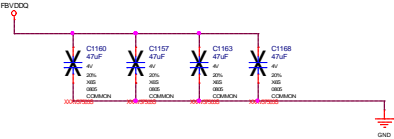
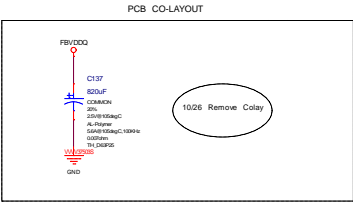
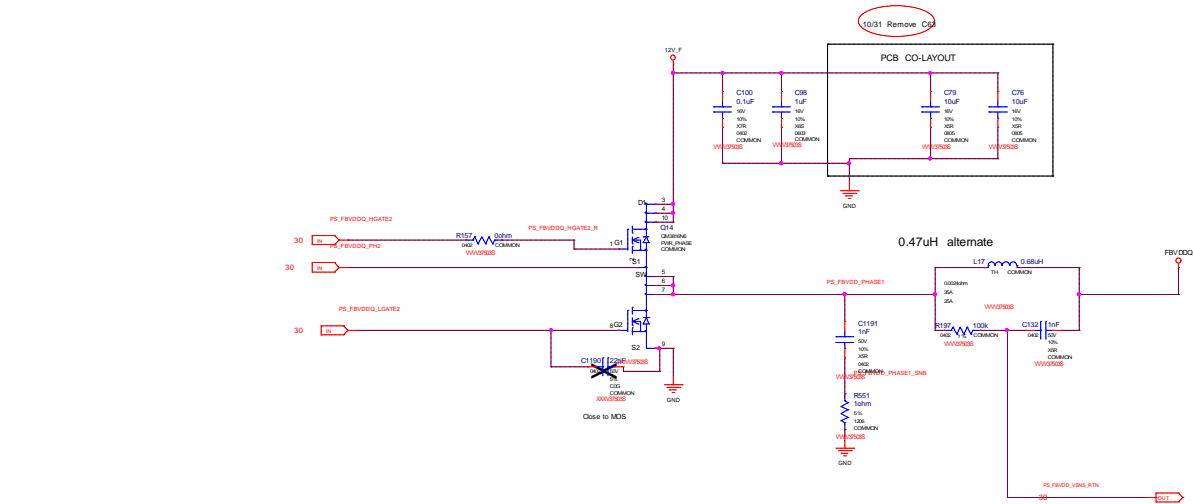
PEX Switcher

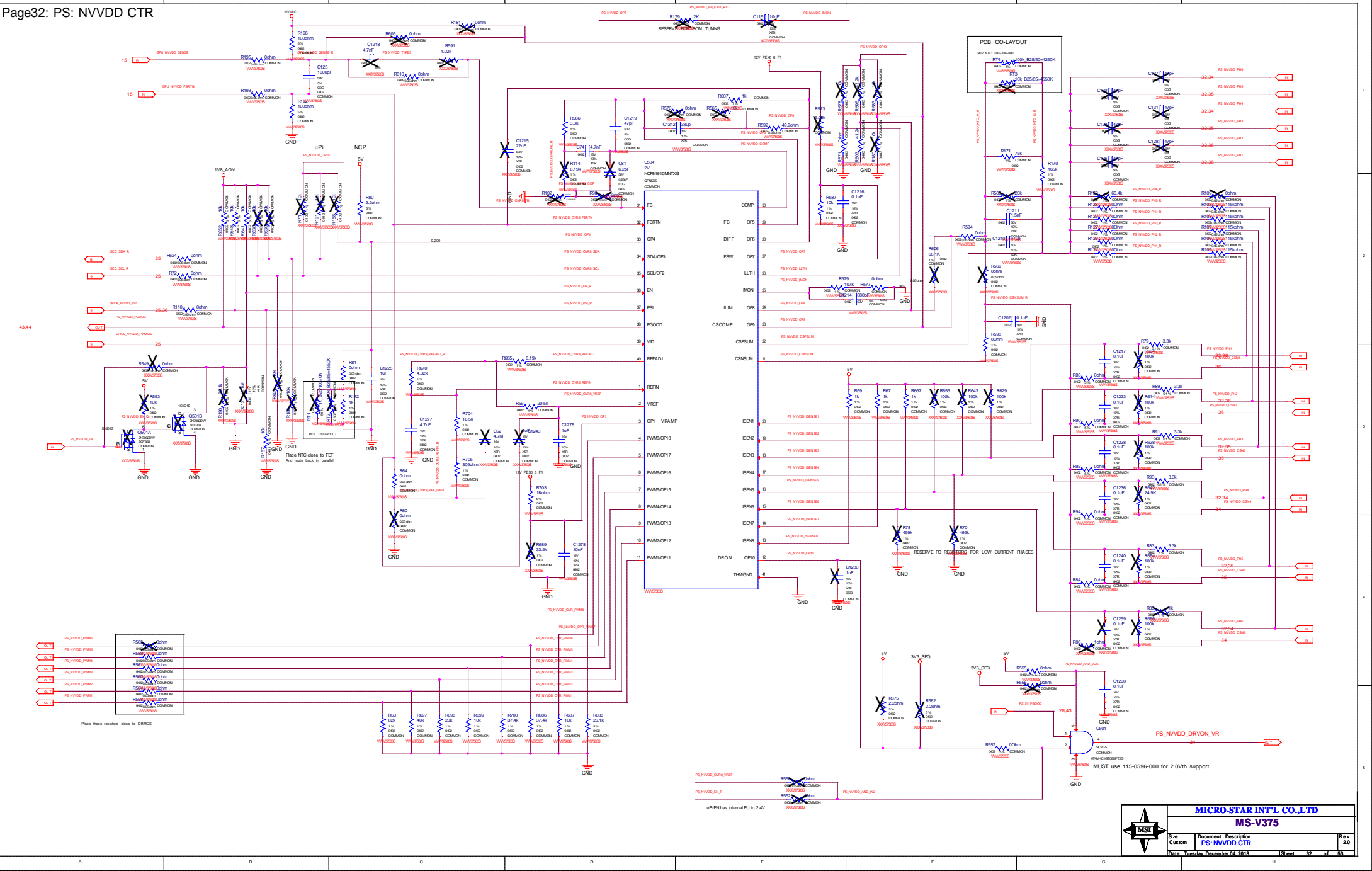




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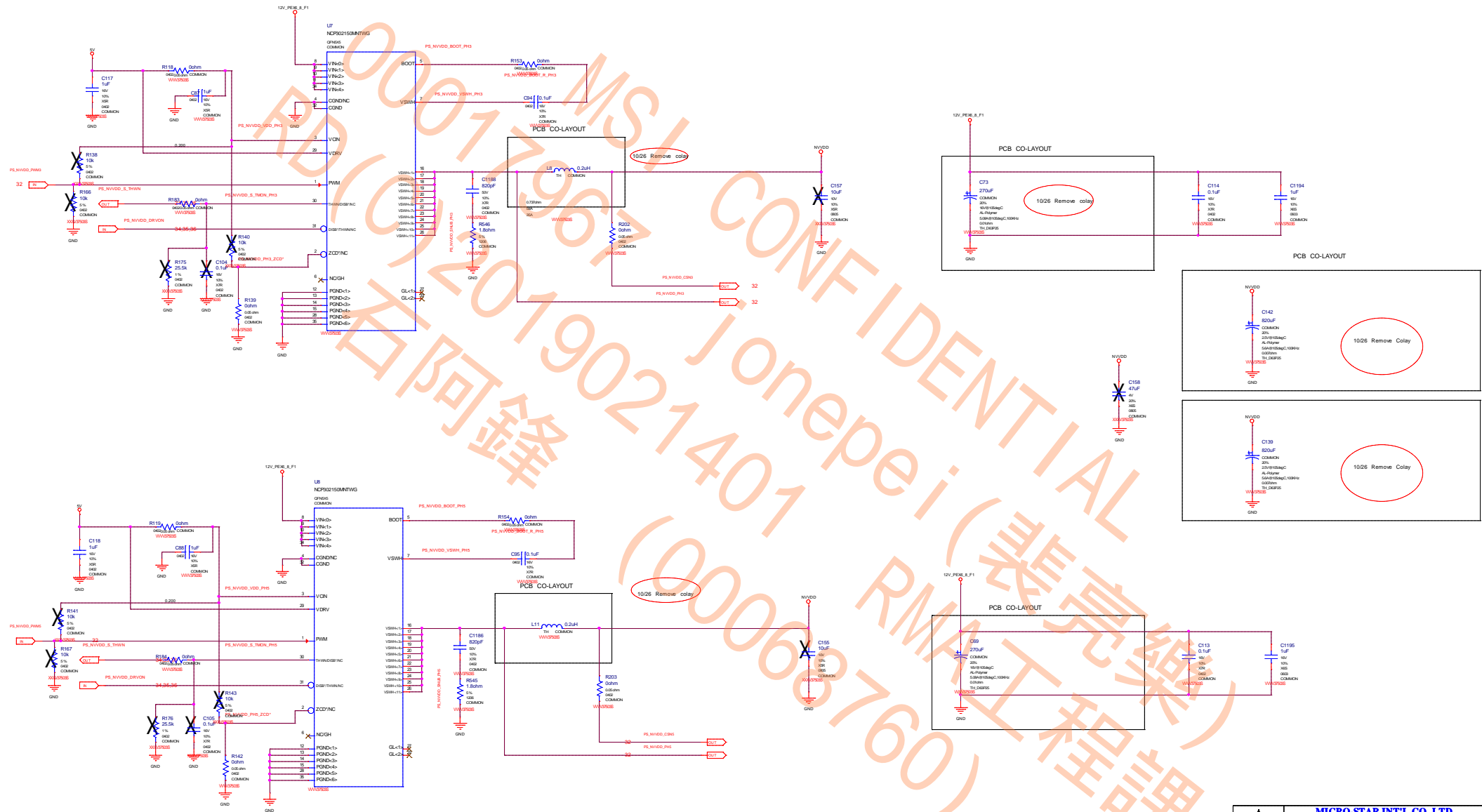
Size Custom	Document Description PS: FBVDDQ	Rev 2.0
Date: Tuesday, December 04, 2018		Sheet 20 of 63





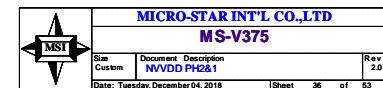
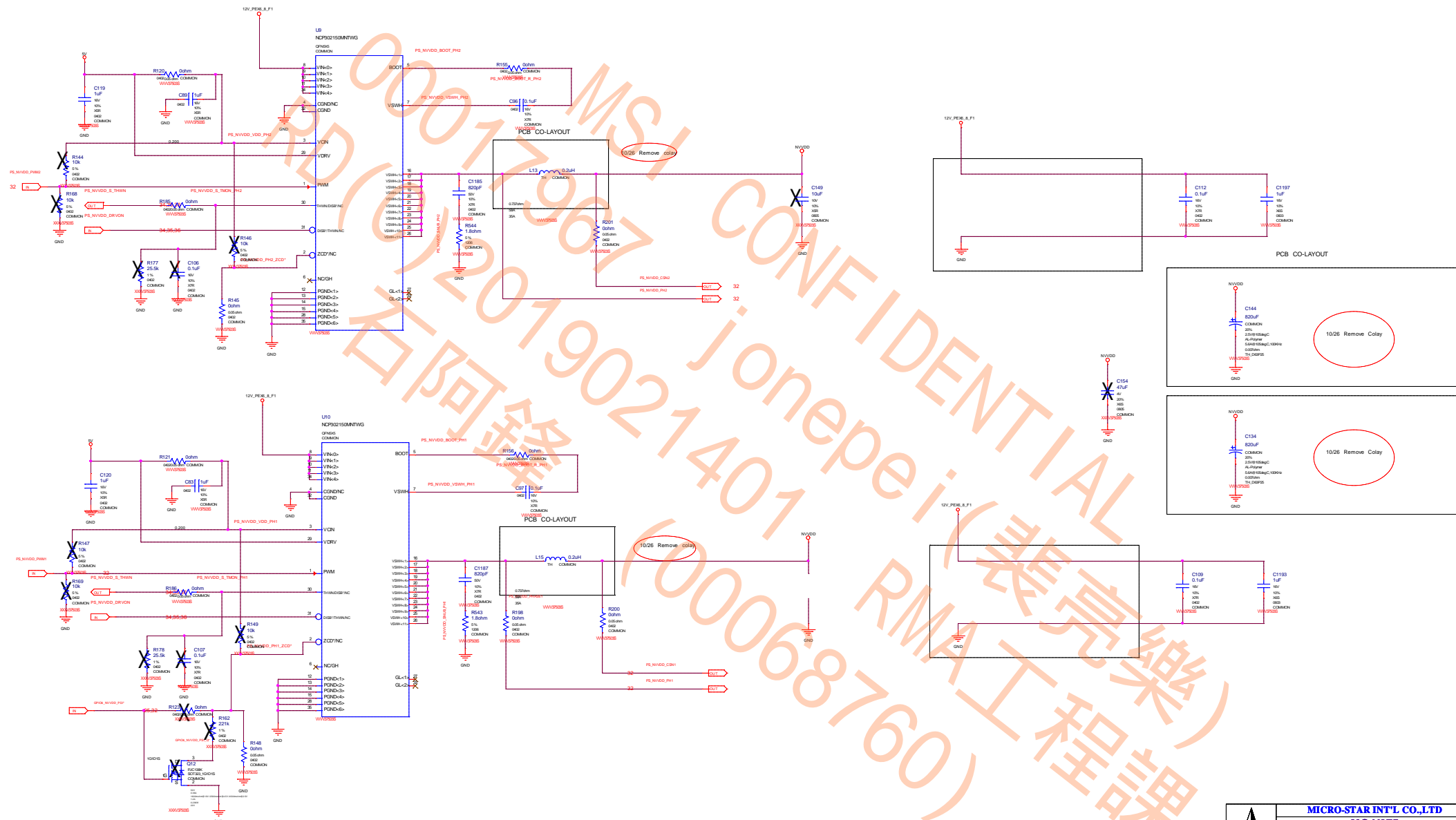
DROP OVR3i SOLUTION

	MICRO-STAR INT'L CO.,LTD		
	MS-V375		
	Size	Document Description	Rev
	Custom	PS: NVVDD CTR OVR3i	2.0
Date: Tuesday, December 03, 2018		Sheet	33 of 53



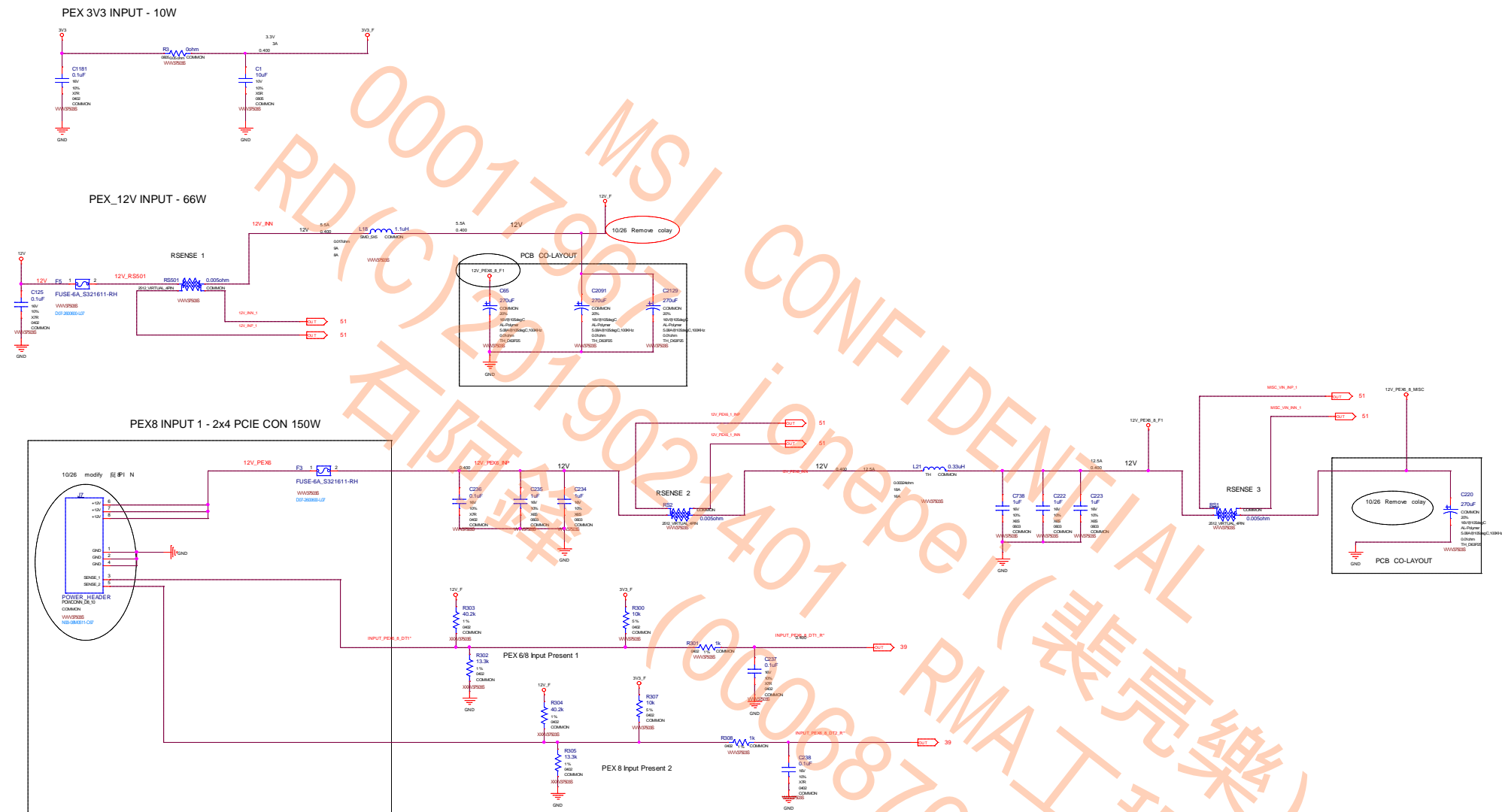
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MS-V375

Size Custom	Document Description PS: NVDD PH3&5	Rev 2.0
Date: Tuesday December 04, 2018		Sheet 26 of 63



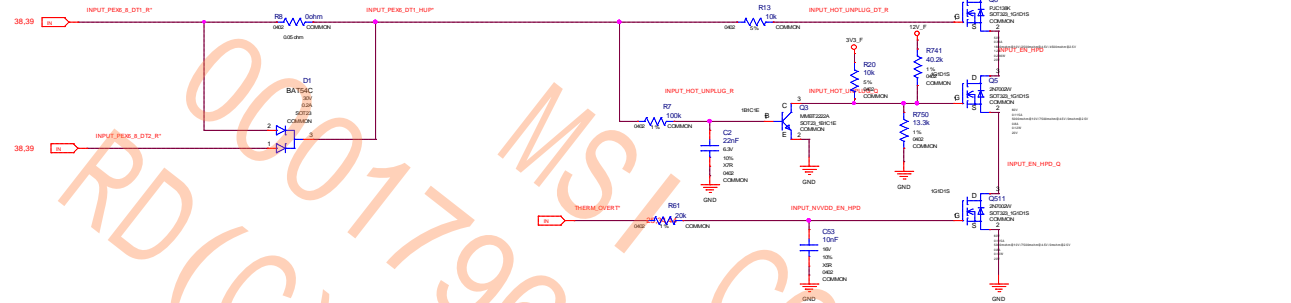
DELETE RAIL BALANCE CIRCUIT

	MICRO-STAR INT'L CO.,LTD		
	MS-V375		
	Size	Document Description	Rev
	Custom	Input Power Balancing Switcher	2.0
Date: Tuesday, December 04, 2018		Sheet	37 of 53



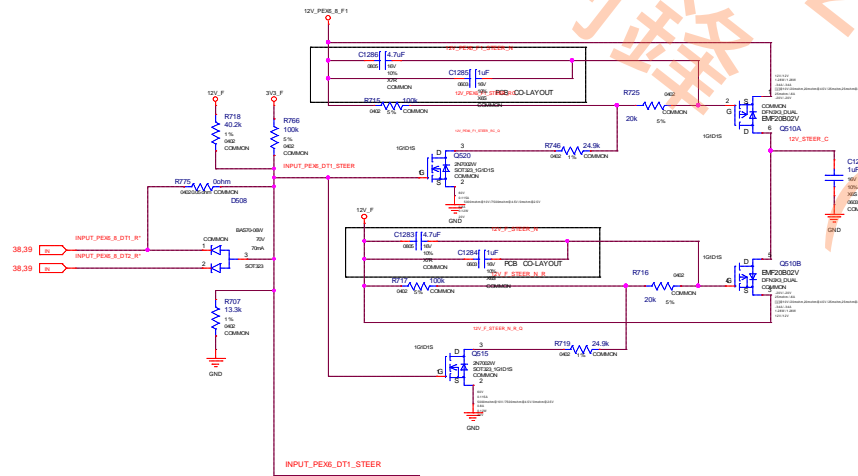
PEX Input Present 1

POWER CONNECTOR HOT-UNPLUG DETECT

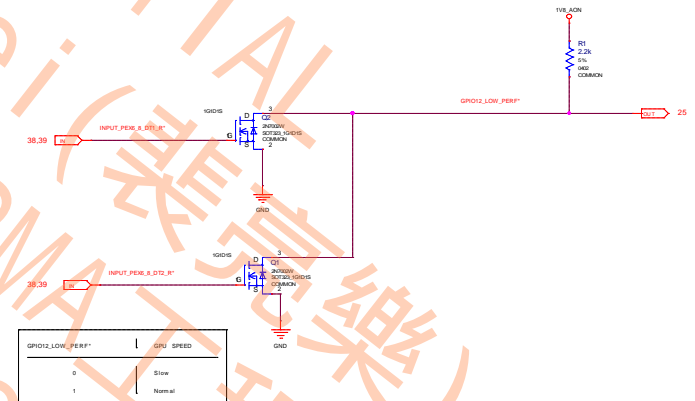


12V CURRENT STEERING (UNDER POWER BOOT):

GUIDES CURRENT FROM PEX EDGE TO PEX 6 PIN INPUT AREA




PEX Input - Power Level/PSI* Control



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石阿鋒 (00068760)

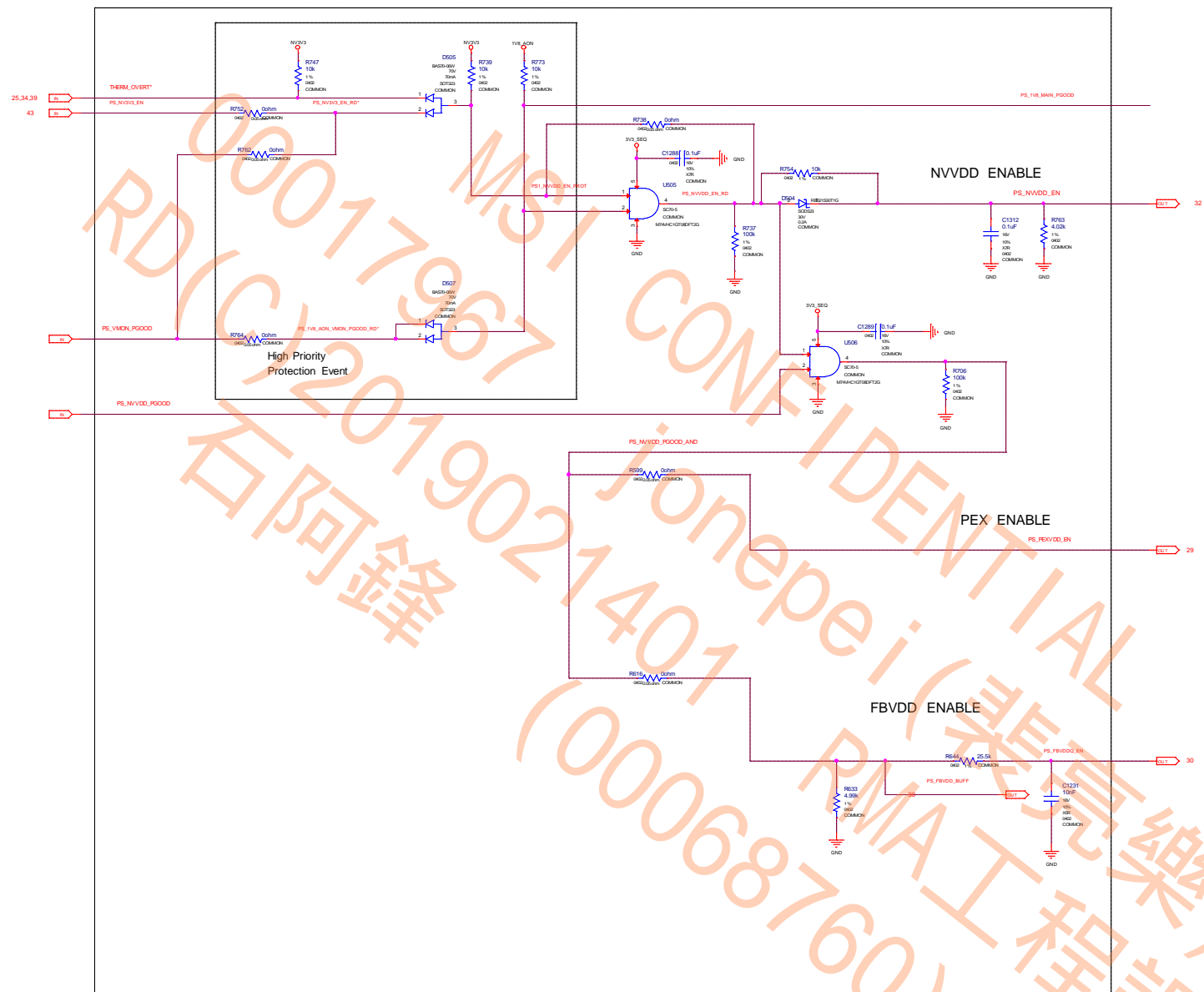
	MICRO-STAR INT'L CO.,LTD		
	MS-V375		
	Size	Document Description	Rev
	Custom	BUCKBOOST	2.0
Date: Tuesday, December 03, 2018		Sheet 46 of 53	

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	Size	Document Description	Rev
	Custom	PPC	2.0
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Size	Document	Description	Rev
Custom	12V & 3V3_A	SWITCHER	2.0
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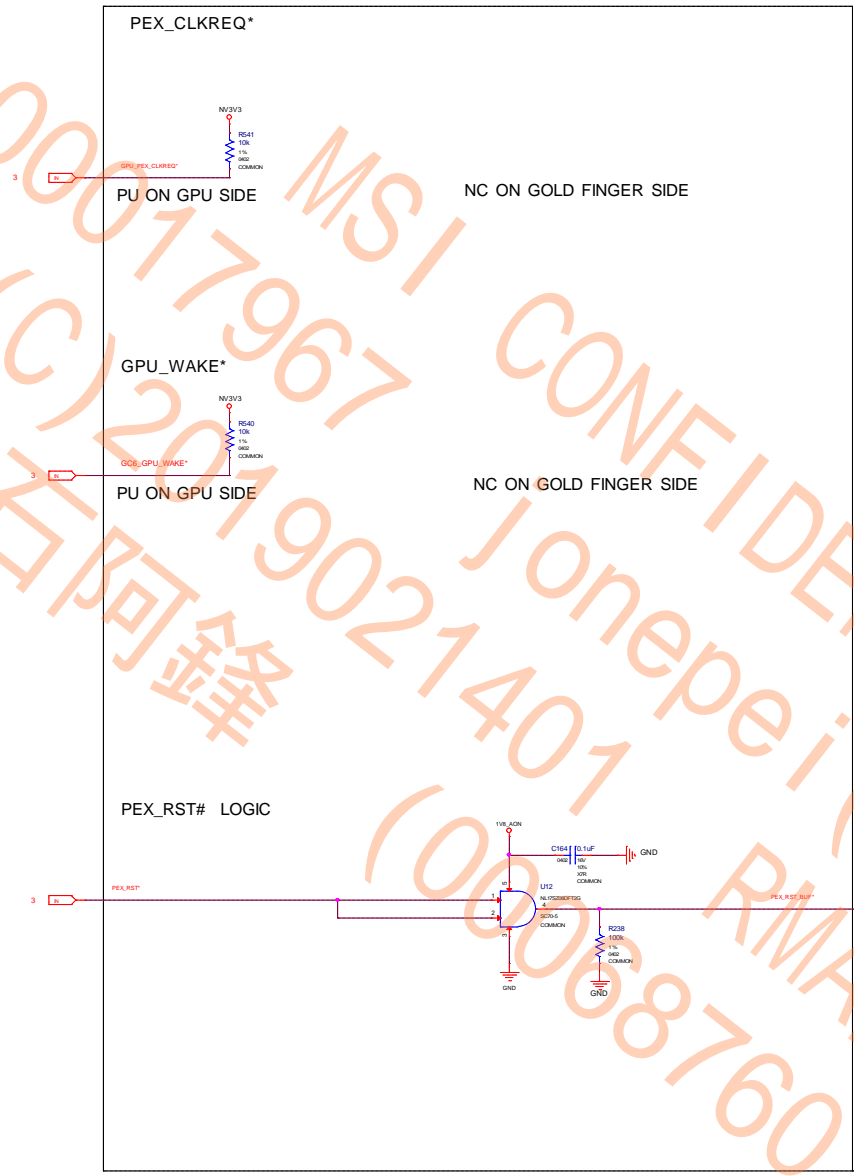
Size Custom	Document Description SEQ:NV_PEX_FB ENABLE	Rev 2.0
Date: Tuesday, December 04, 2018		Sheet 44 of 53

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	Size	Document Description	Rev
	Custom	SEQUENCE:Voltage Monitor	2.0
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Size	Document Description	Rev
Custom	SEQUENCE:Discharge	2.0
Date: Tuesday, December 03, 2018		Sheet 46 of 53



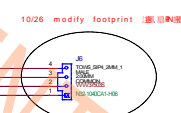
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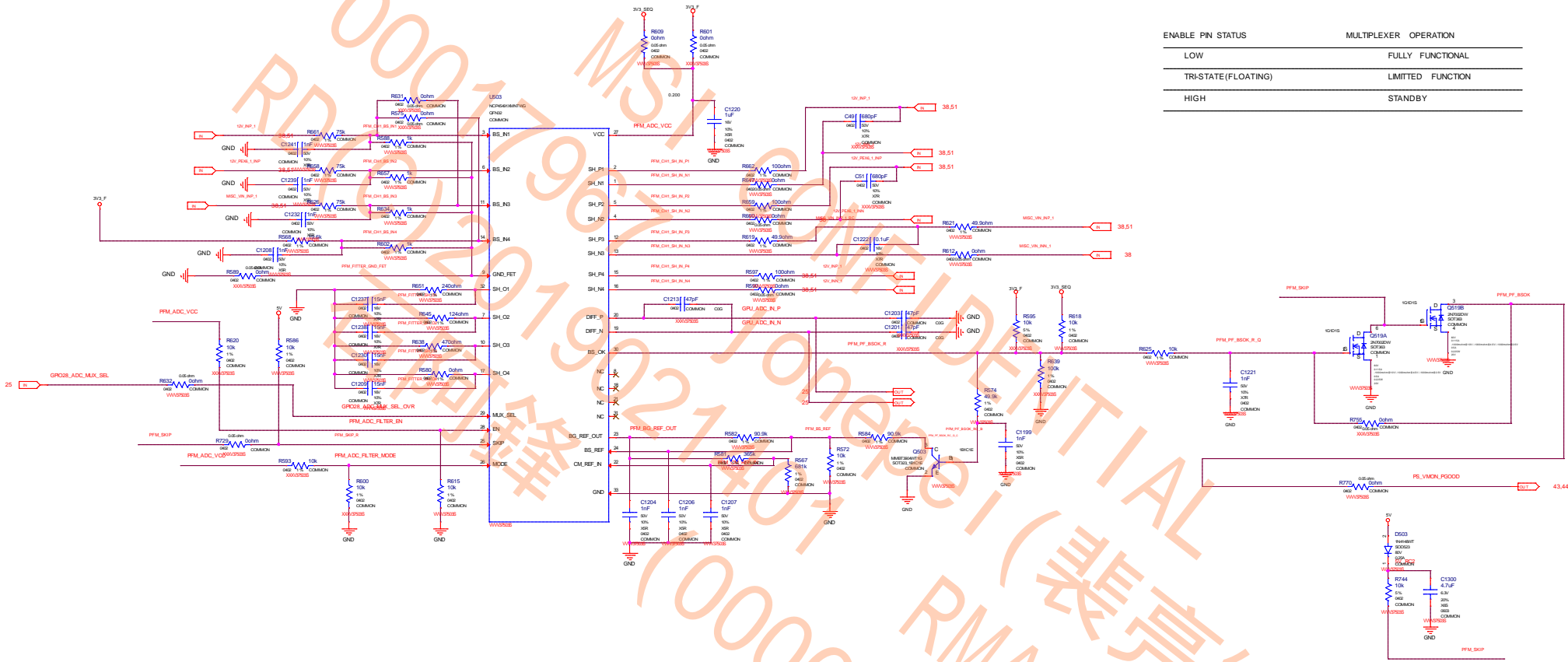
	MICRO-STAR INT'L CO.,LTD		
	MS-V375		
	Size	Document Description	Rev
	Custom	LOGO LED	2.0
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	Size	Document Description	Rev
	Custom	LED DRIVER & Boost	2.0
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MODE	PN STATUS	MULTIPLEXER	OPERATION
LOW		DEVICE A	
TRI-STATE(FLOATING)		STAND-ALONE	
HIGH		DEVICE B	

ENABLE	PN STATUS	MULTIPLEXER	OPERATION
LOW		FULLY FUNCTIONAL	
TRI-STATE(FLOATING)		LIMITED FUNCTION	
HIGH		STANDBY	



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Docu-ment Description

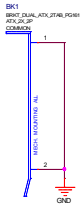
PWR SENSE

Date: Tuesday, December 04, 2018

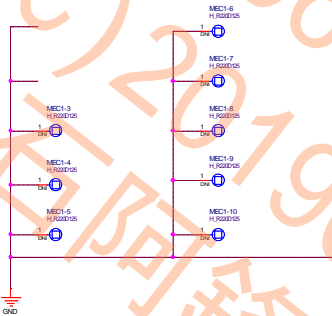
Sheet 81 of 93

Rev 2.0

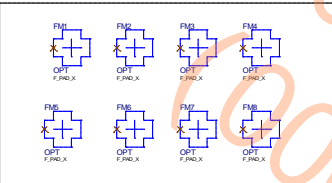
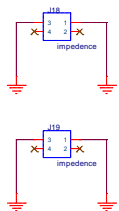
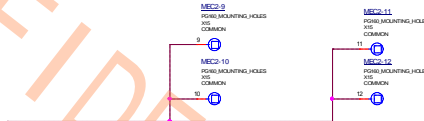
Bracket:



MOUNTING HOLES FOR HS:



BACK STIFFENER:



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	MS-V375		
	Size	Document Description	Rev
	Custom	PTC	2.0
Date: Tuesday, December 04, 2018		Sheet 53 of 53	