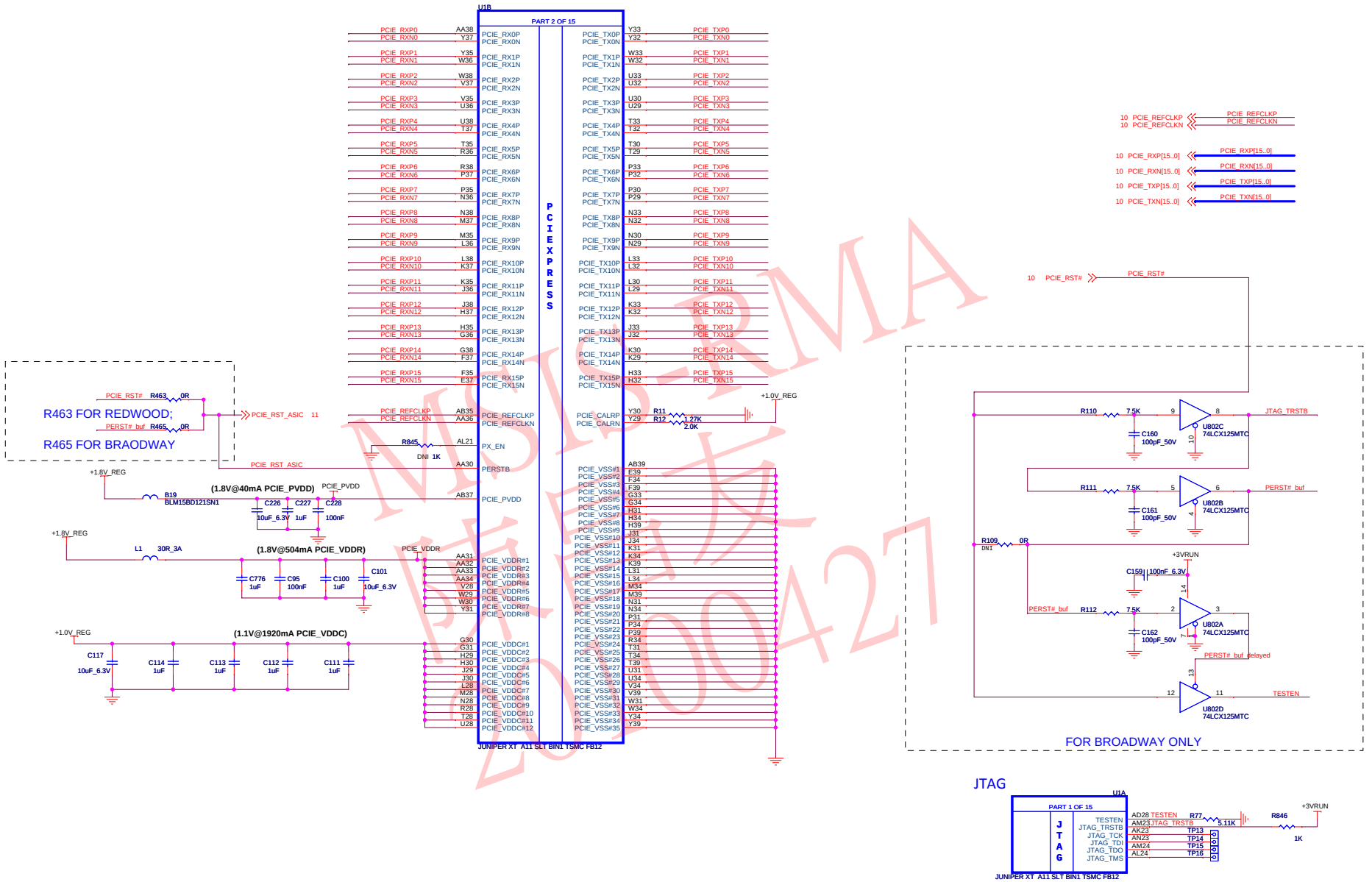

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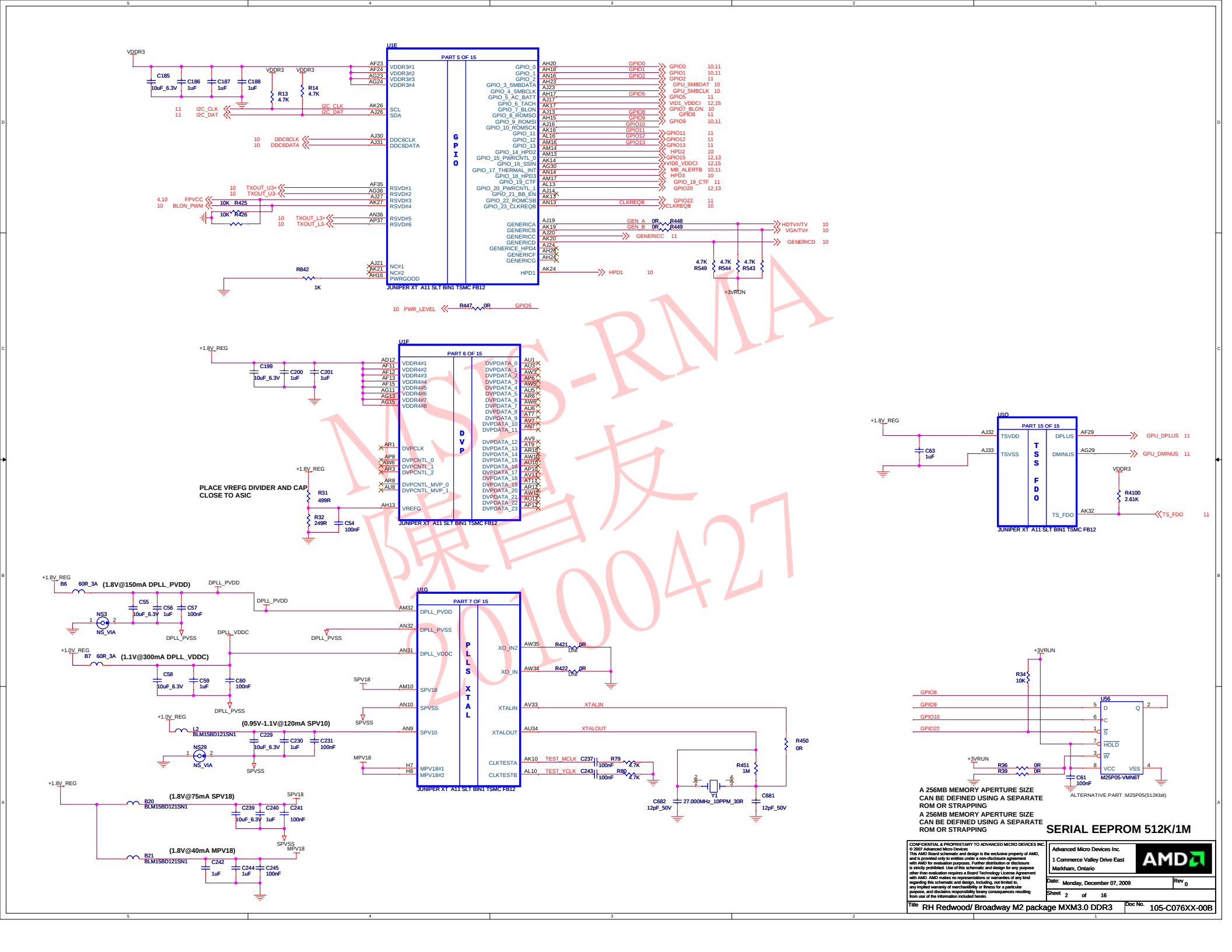
Title	RH Redwood/ Broadway M2 package MXM3.0 DDR3
Doc No.	105-C076XX-00B


U1E
PART 5 OF 15
GPIO
JUNIPER XT A11 SLT BIN1 TSMC FB12
U1F
PART 6 OF 15
DVP
JUNIPER XT A11 SLT BIN1 TSMC FB12
PLACE VREFG DIVIDER AND CAP CLOSE TO ASIC
U1G
PART 7 OF 15
PLL SXTAL
JUNIPER XT A11 SLT BIN1 TSMC FB12
U1O
PART 15 OF 15
TSS FDO
JUNIPER XT A11 SLT BIN1 TSMC FB12
(1.8V@150mA DPLL_PVDD)
(1.1V@300mA DPLL_VDDC)
(0.95V-1.1V@120mA SPV10)
(1.8V@75mA SPV18)
(1.8V@40mA MPV18)
A 256MB MEMORY APERTURE SIZE CAN BE DEFINED USING A SEPARATE ROM OR STRAPPING
A 256MB MEMORY APERTURE SIZE CAN BE DEFINED USING A SEPARATE ROM OR STRAPPING
SERIAL EEPROM 512K/1M
ALTERNATIVE PART :M25P05(512Kbit)
M25P05-VMN6T
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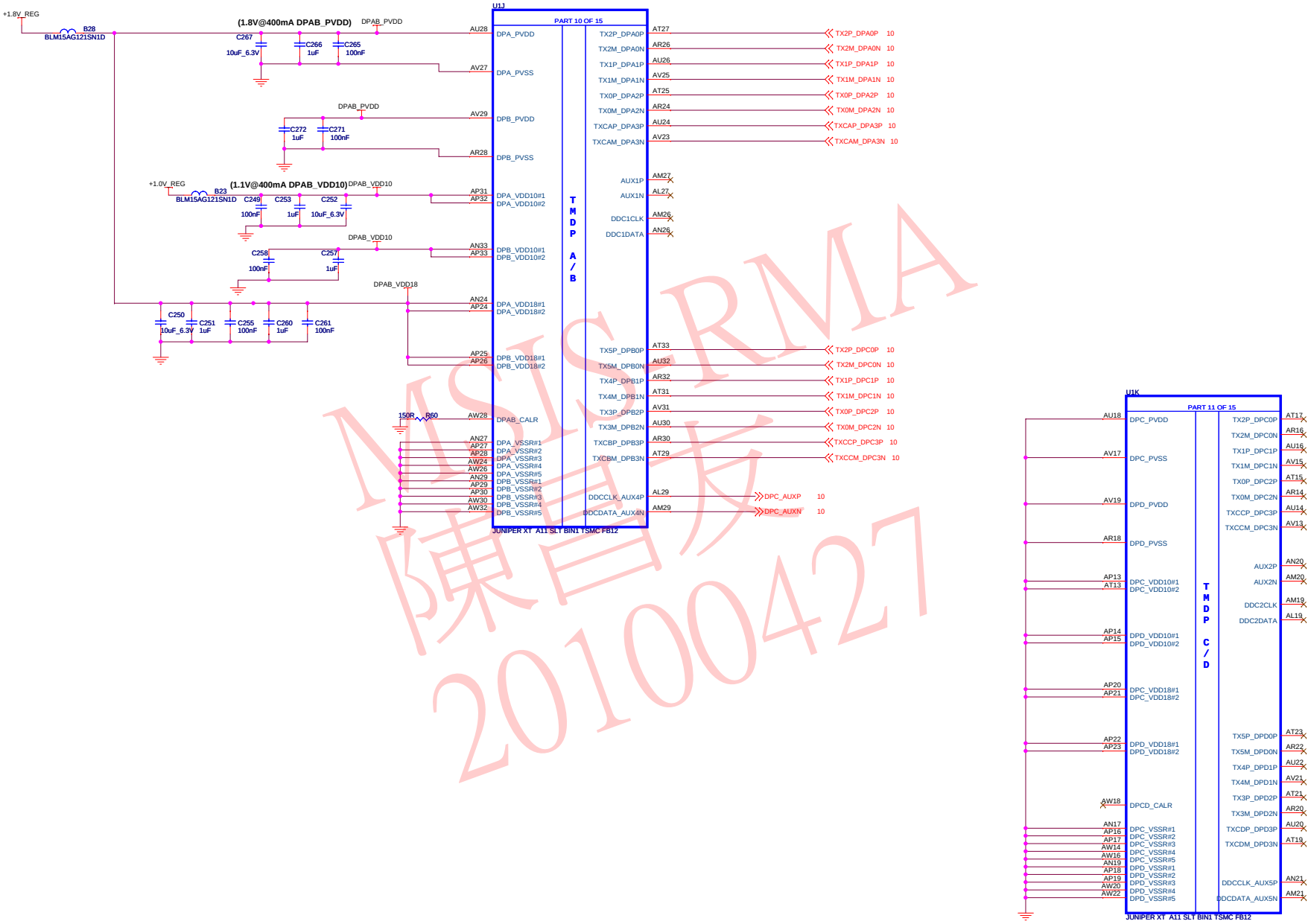

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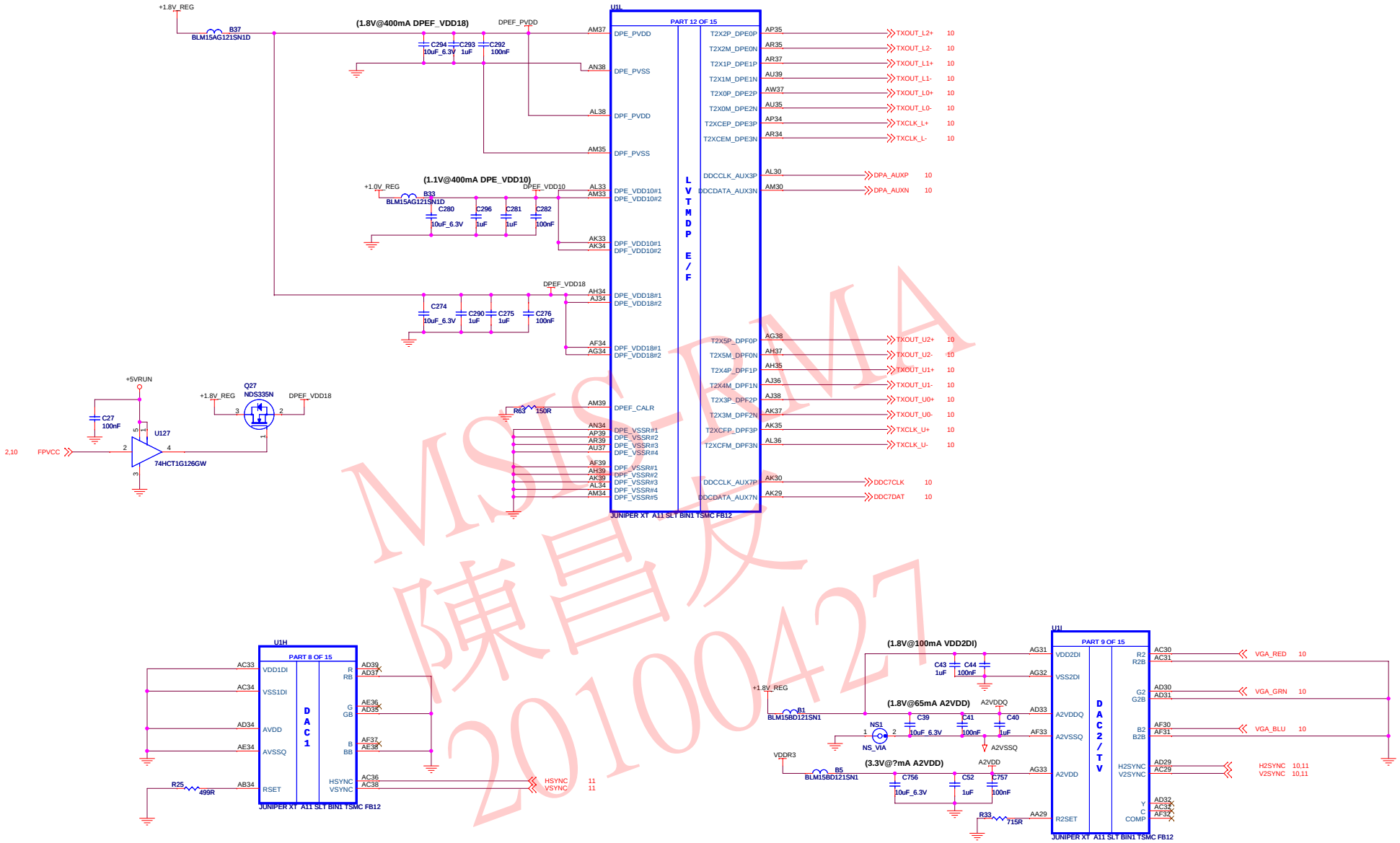

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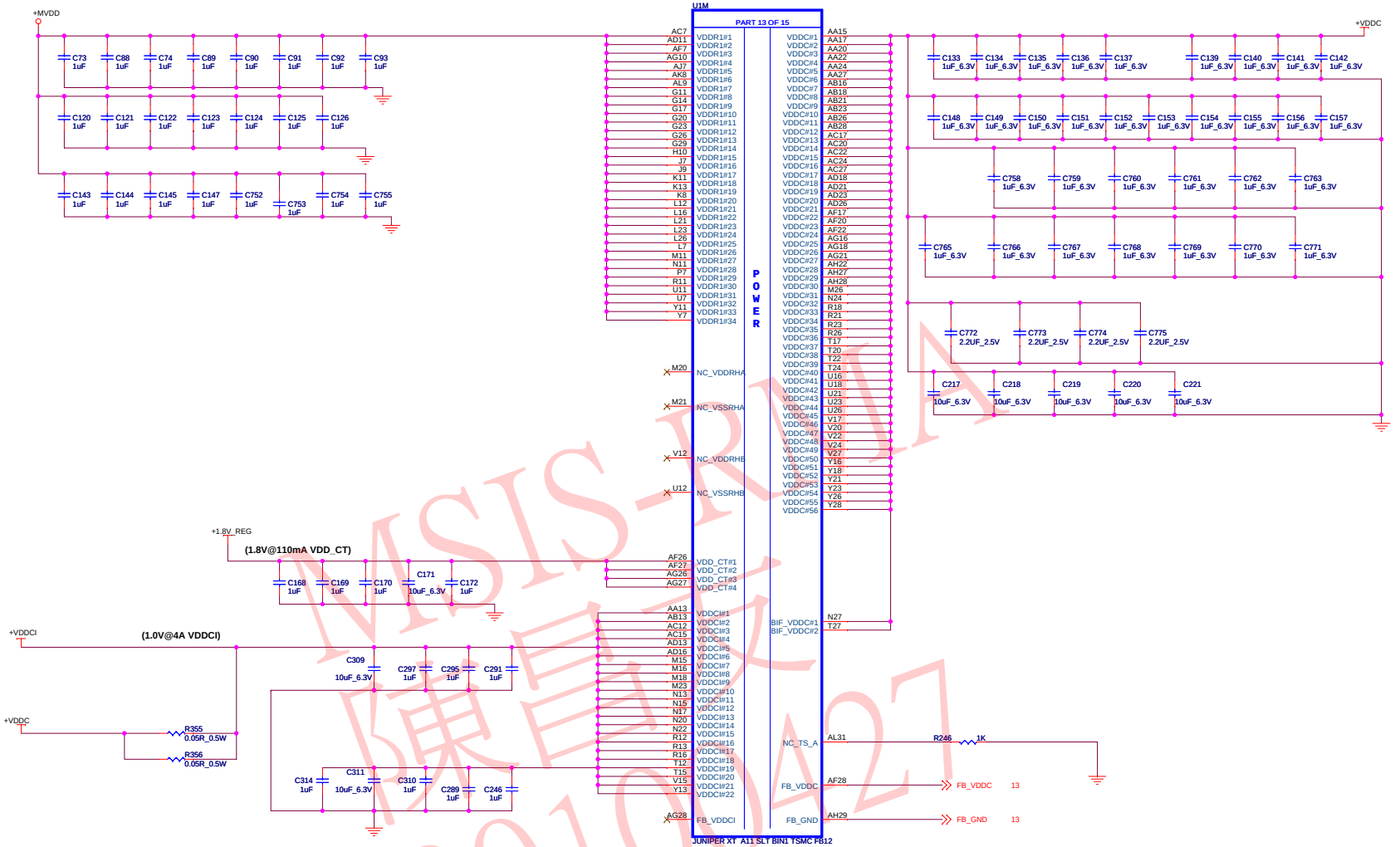

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Title RH Redwood/ Broadway M2 package MXM3.0 DDR3

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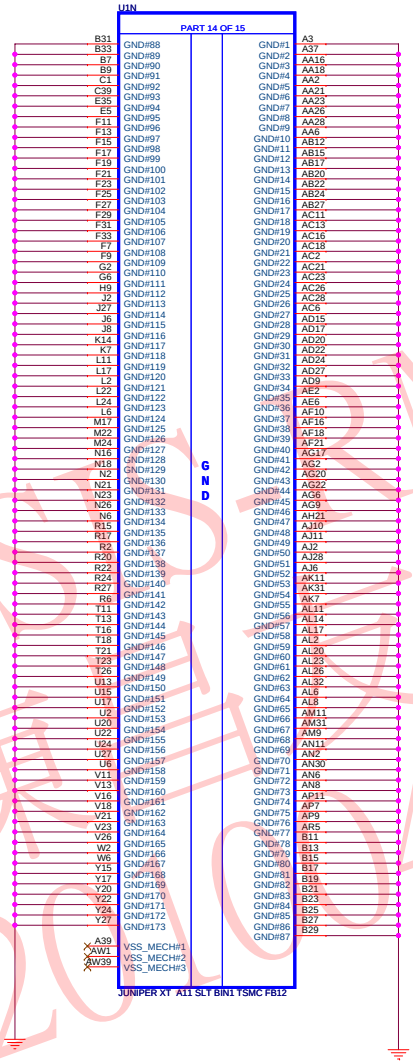

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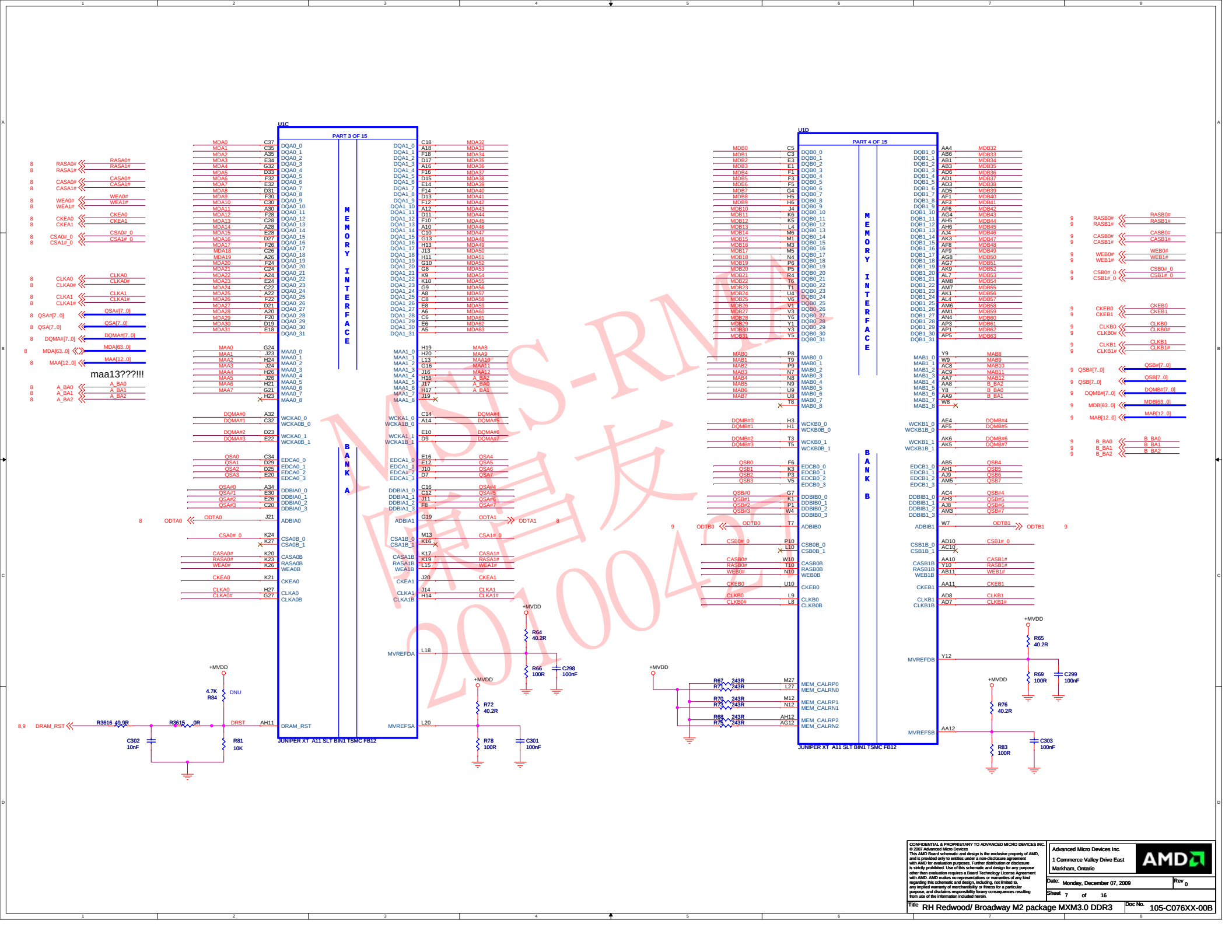

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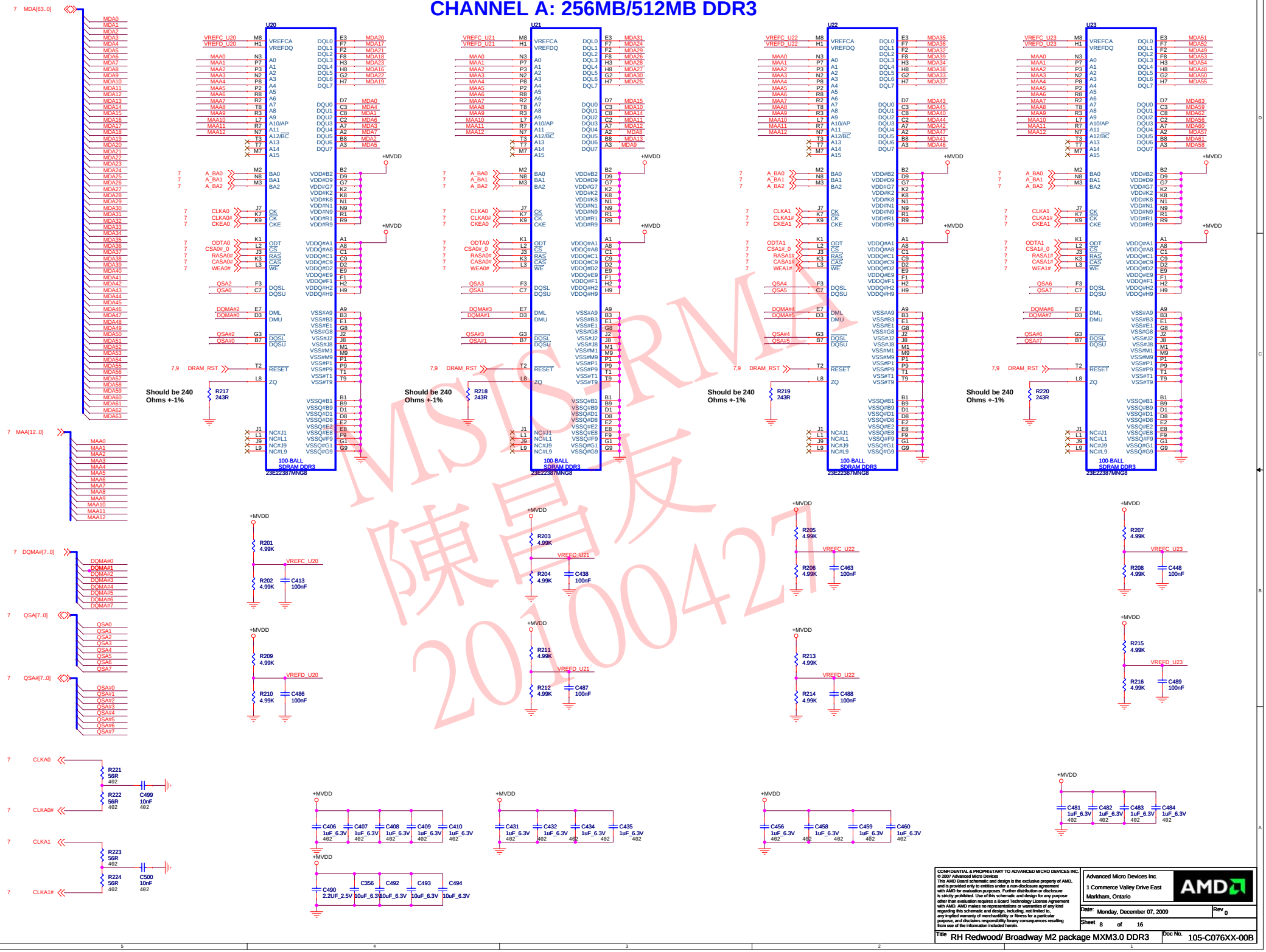
CHANNEL A: 256MB/512MB DDR3



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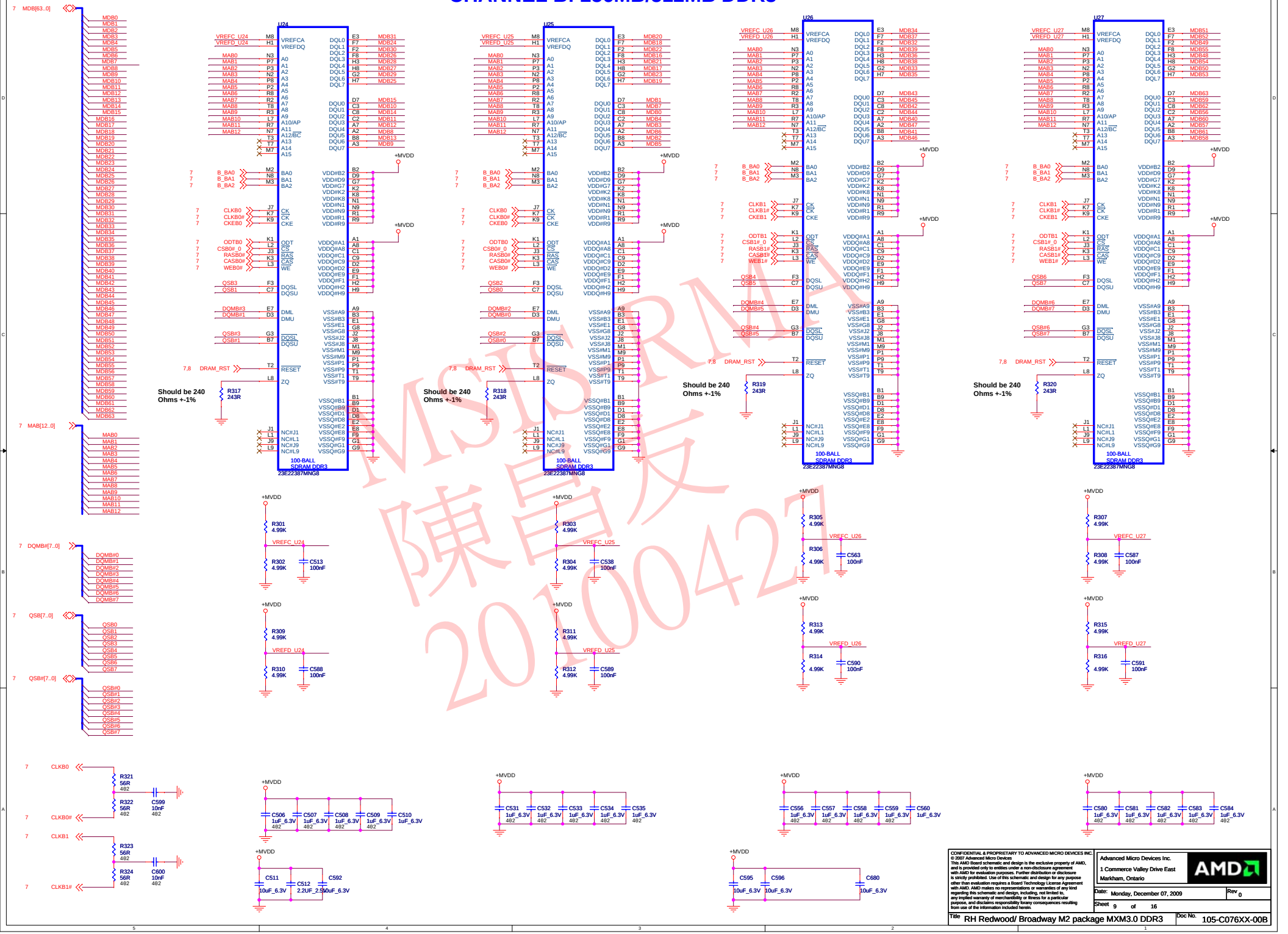
CHANNEL B: 256MB/512MB DDR3



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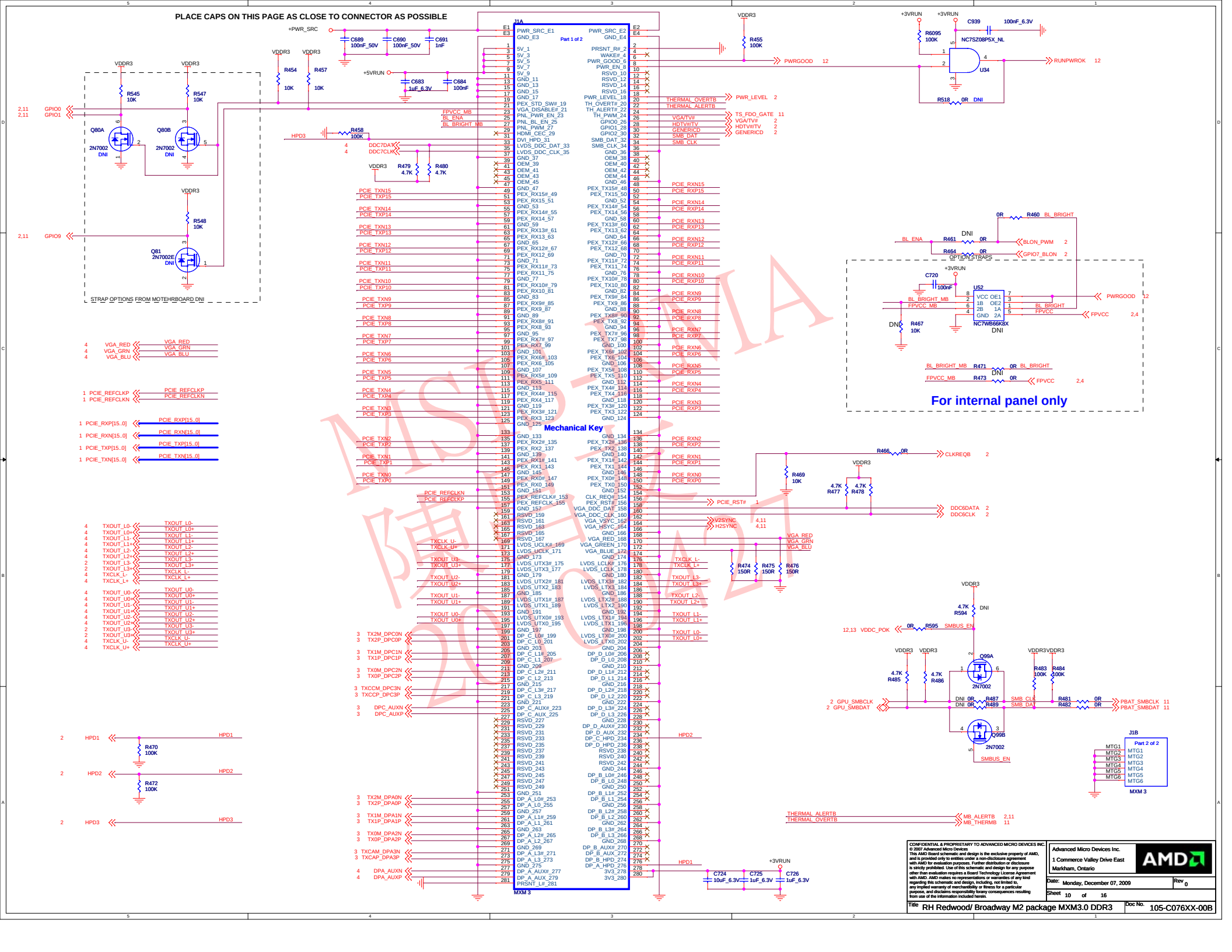
PLACE CAPS ON THIS PAGE AS CLOSE TO CONNECTOR AS POSSIBLE

STRAP OPTIONS FROM MOTHERBOARD DNI

Mechanical Key

For internal panel only



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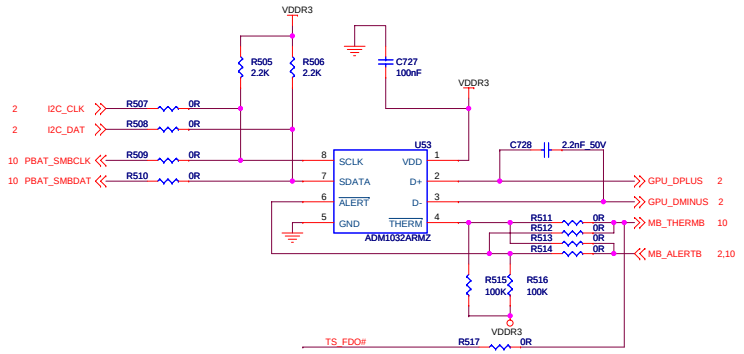
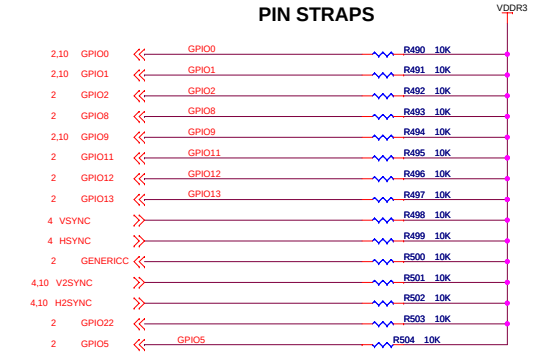




CONFIGURATION STRAPS

ALLOW FOR PULLUP PADS FOR THESE STRAPS AND IF THESE GPIOS ARE USED, THEY MUST NOT CONFLICT DURING RESET

RECOMMENDED SETTINGS
0= DO NOT INSTALL RESISTOR
1 = INSTALL 10K RESISTOR
X = DESIGN DEPENDANT
NA = NOT APPLICABLE

STRAPS	PIN	DESCRIPTION OF DEFAULT SETTINGS	
TX_PWRS_ENB	GPIO0	PCIE FULL TX OUTPUT SWING	1
TX_DEEMPH_EN	GPIO1	PCIE TRANSMITTER DE-EMPHASIS ENABLED	1
BIF_GEN2_EN_A	GPIO2	PCIE GNE2 ENABLED	1
BIF_CLK_PM_EN	GPIO8	BIF_CLK_PM_EN	0
BIF_VGA DIS	GPIO9	VGA ENABLED	0
BIF_RX_PLL_CALIB_BP	GPIO21	BIF_RX_PLL_CALIB_BP	0
BIOS_ROM_EN	GPIO_22_ROMCSB	ENABLE EXTERNAL BIOS ROM	1
ROMIDCFG(2:0)	GPIO[13:11]	SERIAL ROM TYPE OR MEMORY APERTURE SIZE SELECT	X X X
VIP_DEVICE_STRAP_ENA	V2SYNC	IGNORE VIP DEVICE STRAPS	0
SMS_EN_HARD	H2SYNC		0
CCBYPASS	GENERICC		0
AUD[1]	HSYNC	built-in HDMI connector	1
AUD[0]	VSYNC	Audio functiuon present	1
MEMORY CINFIG	[GPIO5,GPIO16]		
HYNIX	[0:1]		
SAMSUNG	[1:0]		

AMD RESERVED CONFIGURATION STRAPS

ALLOW FOR PULLUP PADS FOR THESE STRAPS AND IF THESE GPIOS ARE USED, THEY MUST NOT CONFLICT DURING RESET

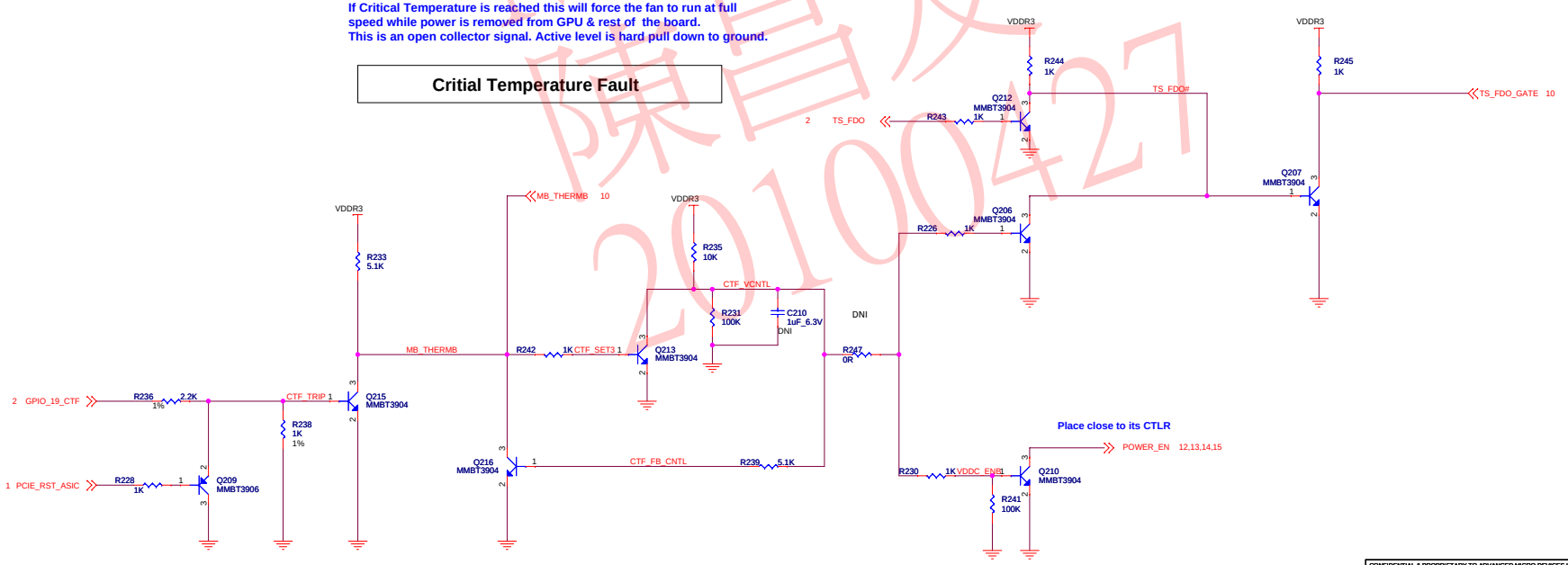
H2SYNC GENERICC

PULLUP PADS ARE NOT REQUIRED FOR THESE STRAPS BUT IF THESE GPIOS ARE USED, THEY MUST NOT CONFLICT DURING RESET

GPIO_28_TDO GPIO21_BB_EN

If Critical Temperature is reached this will force the fan to run at full speed while power is removed from GPU & rest of the board.
This is an open collector signal. Active level is hard pull down to ground.

Critial Temperature Fault



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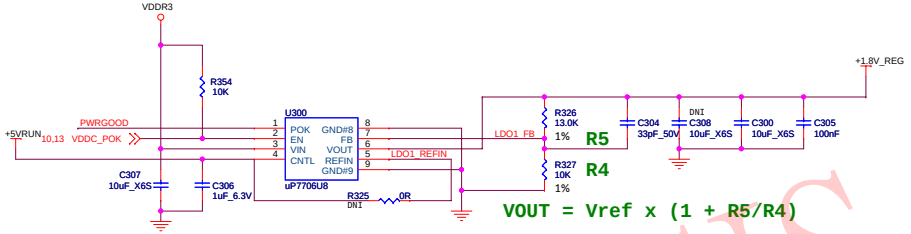
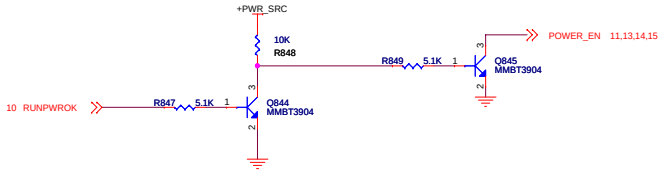
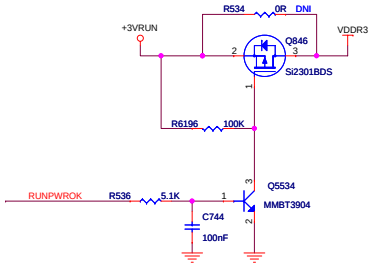
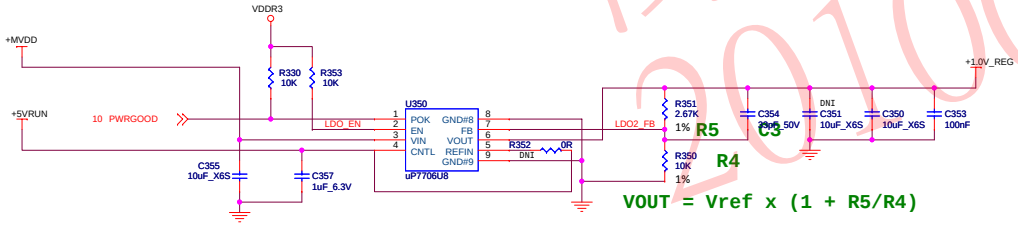
LDO #1: Vin = 3.00V to 3.60V (3.3V +/- 9%) Vout = +1.8V +/- 2%; Iout = 0.8A (TBV) RMS MAX
PCB: 50 to 70mm sq. copper area for cooling

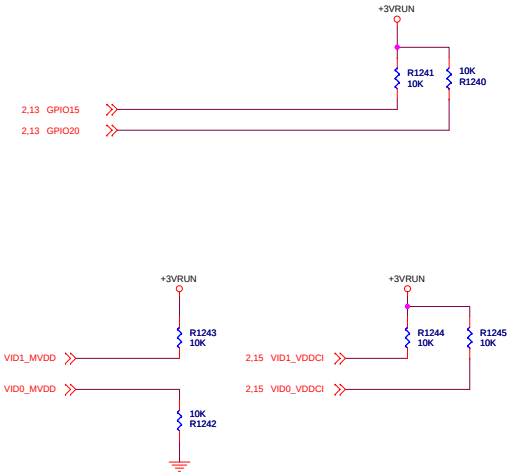






LDO #2: Vin = +1.32V to 1.84VMAX Vout = +1.0V +/- 2% Iout = 1.7A (TBV) RMS MAX
PCB: 50 to 70mm sq. copper area for cooling





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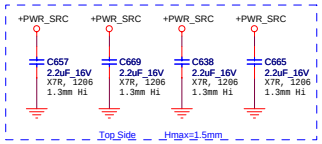
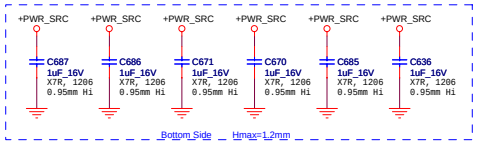
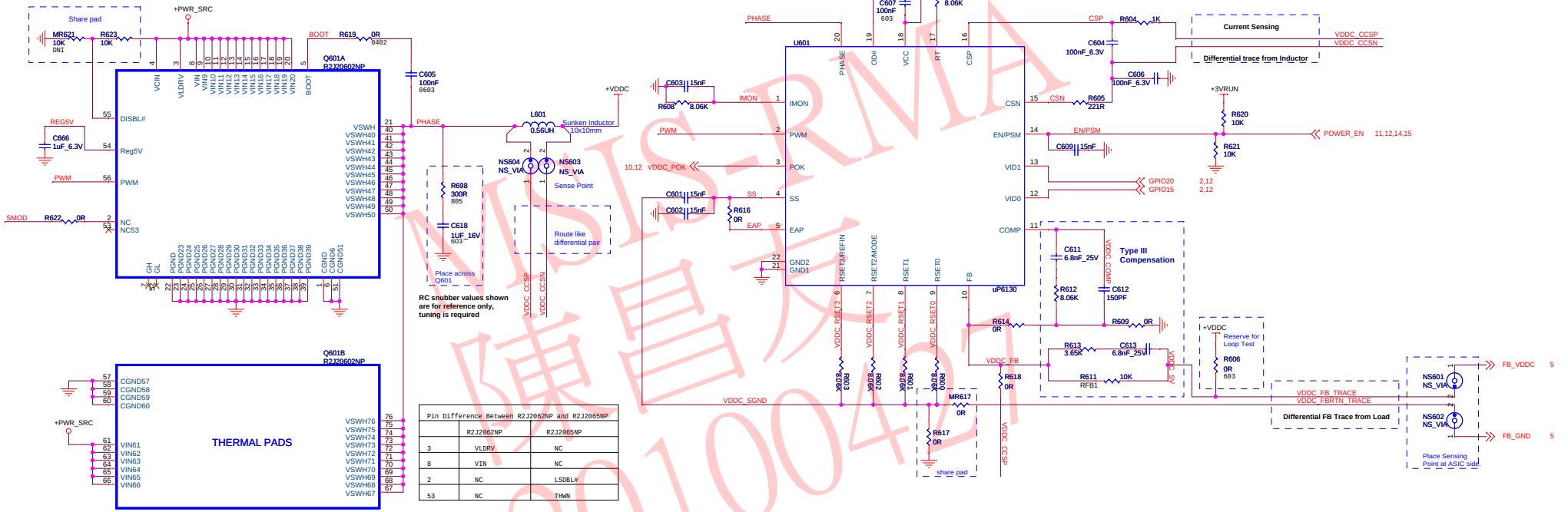
INPUT CAP

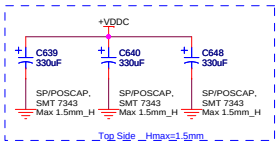


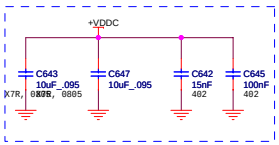




Pin Difference Between R2J20602NP and R2J20605NP		
	R2J20602NP	R2J20605NP
3	VLDRV	NC
8	VIN	NC
2	NC	LSDBL#
53	NC	THWN

OUTPUT CAP





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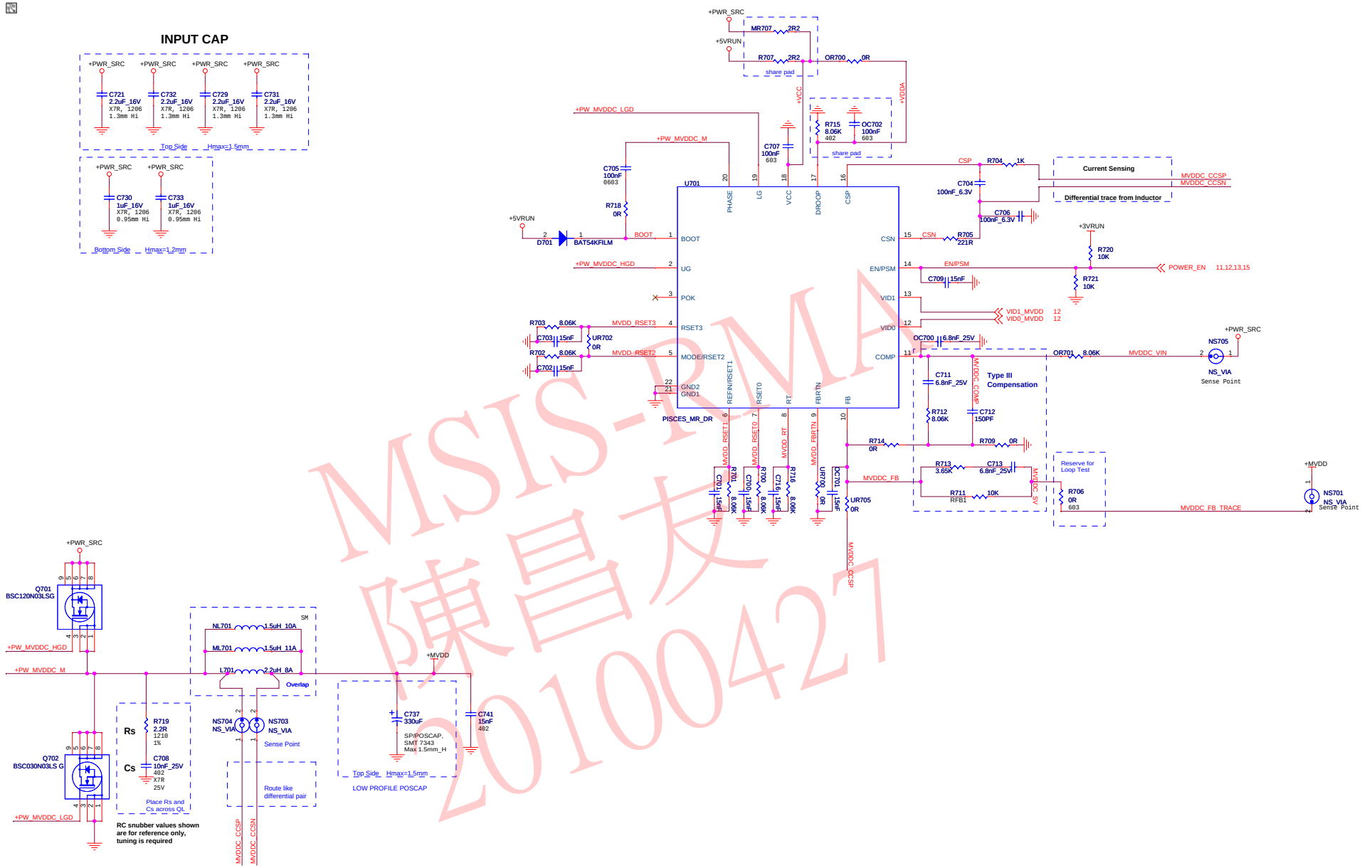

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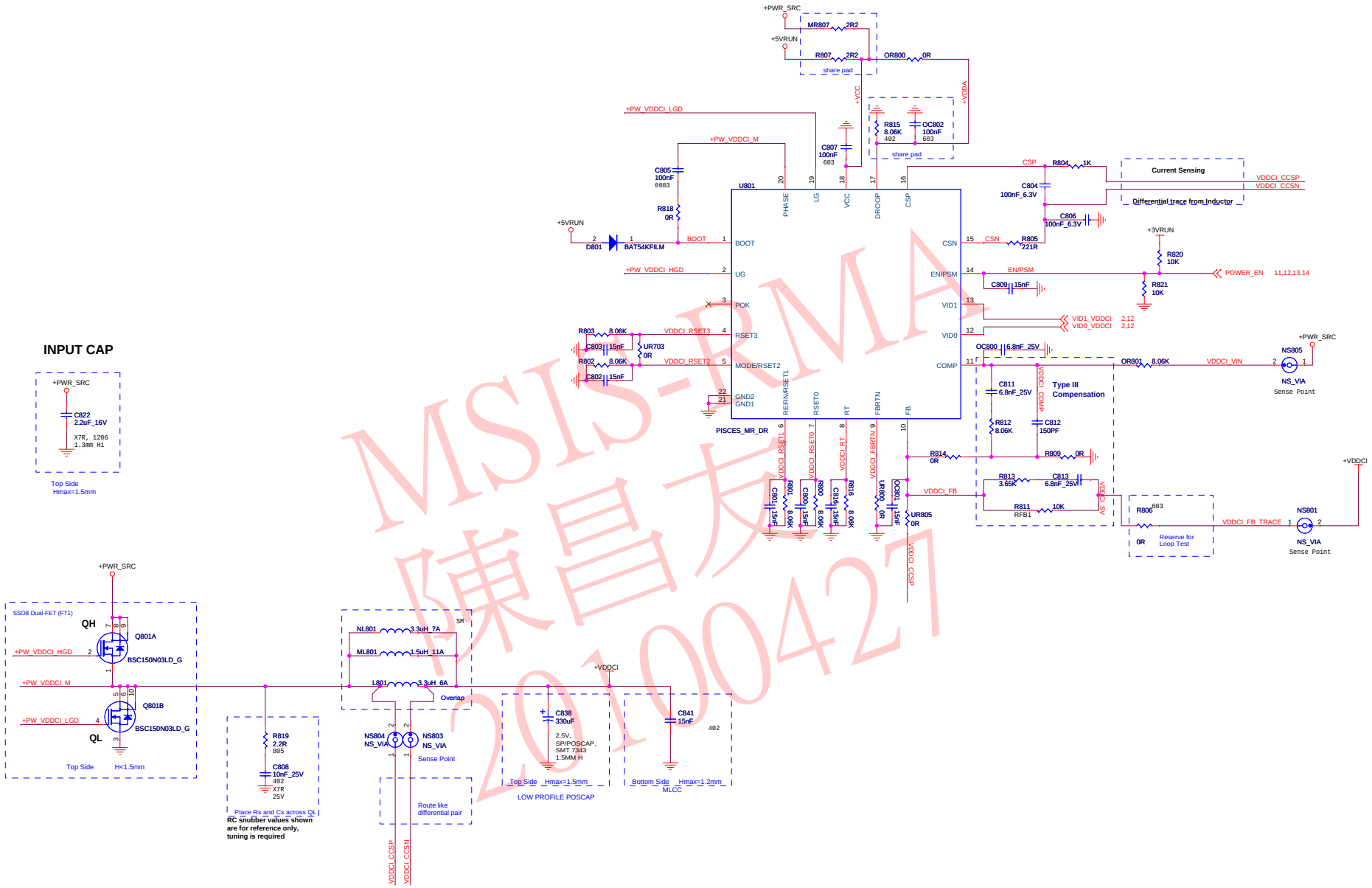

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Title	Schematic No.	Date:
RH Redwood/ Broadway M2 package MXM3.0 DDR3	105-C076XX-00B	Monday, December 07, 2009

REVISION HISTORY

NOTE: This schematic represents the PCB, it does not represent any specific SKU.
For Stuffing options (component values, DNI's, ...) please consult the product specific BOM.
Please contact AMD representative to obtain latest BOM closest to the application desired.

Rev 0

Sch Rev	PCB Rev	Date	REVISION DESCRIPTION
0	00A	09/27/09	Create new SCHs
	00B	12/03/09	Added PWR_EN short to DrMOS Added DrMOS Thermal Pad