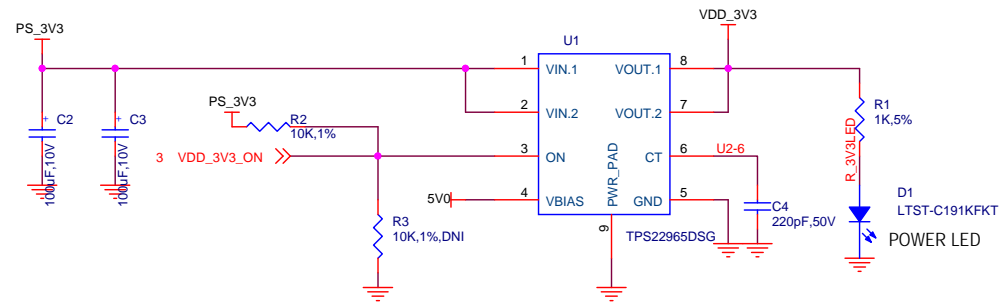
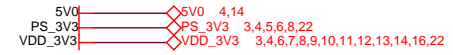
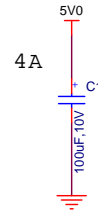
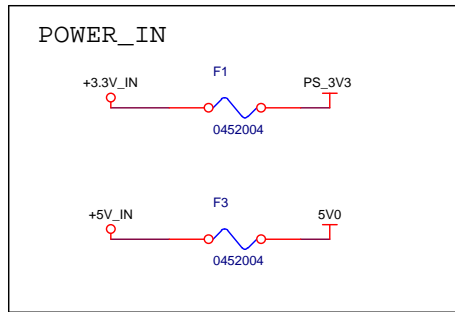
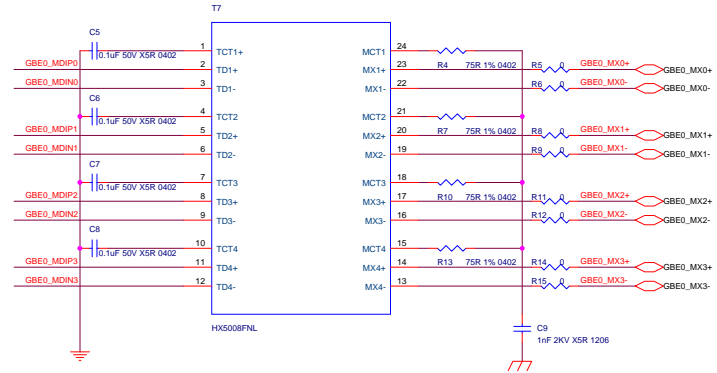
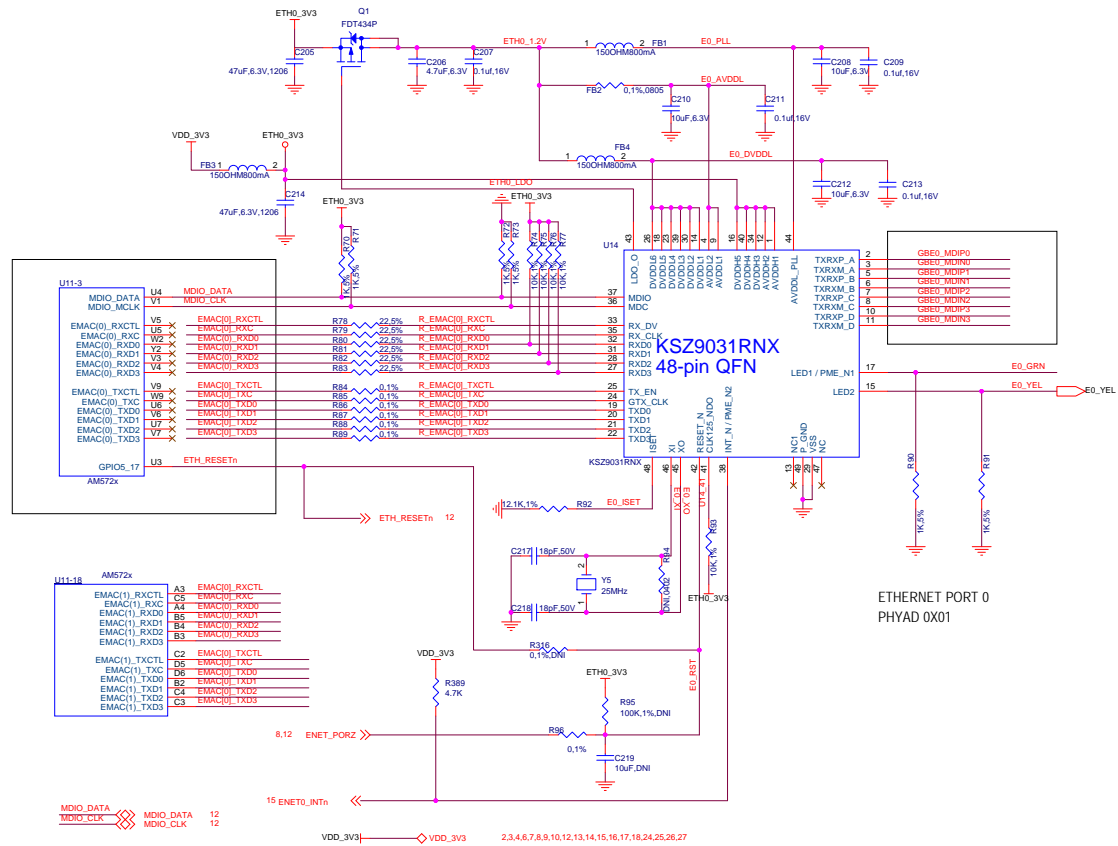
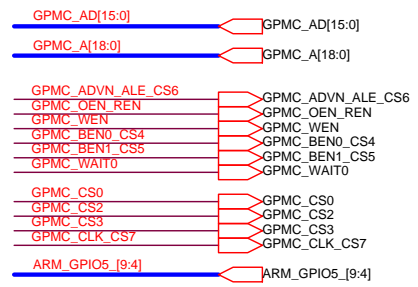
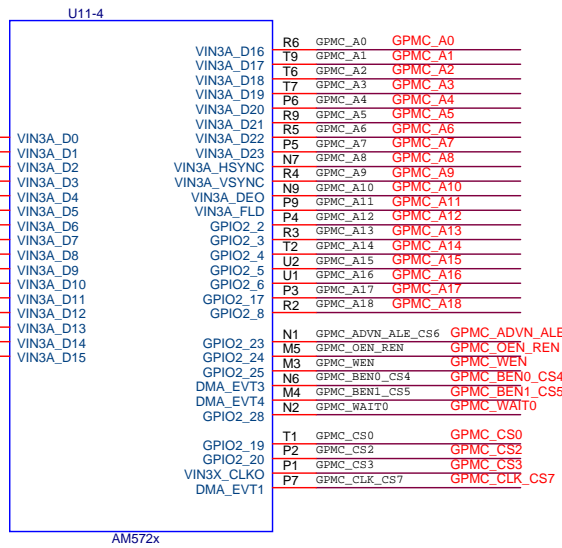


### 3.3V电源需要提供大于4A电流





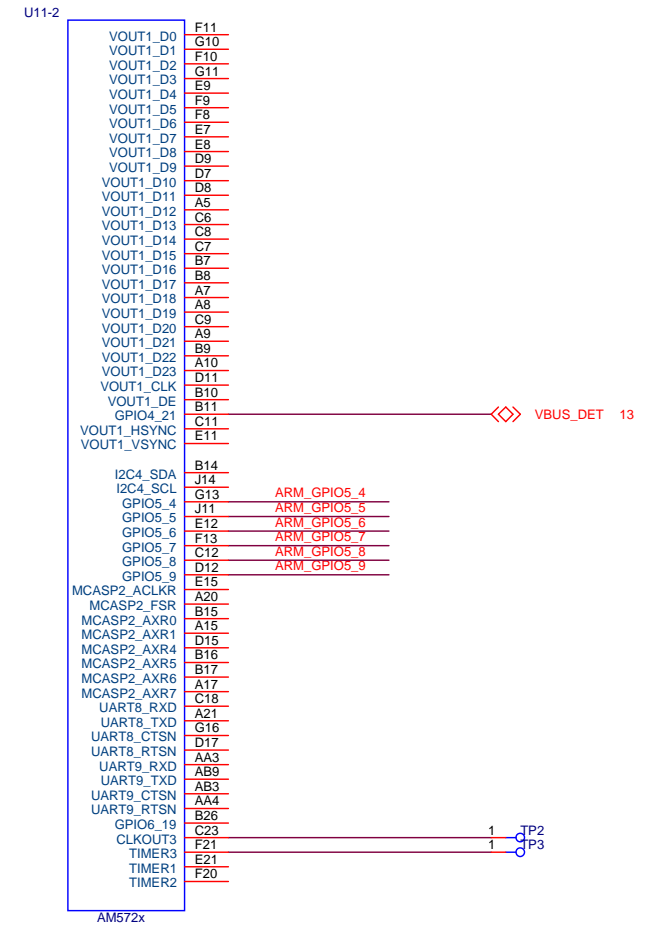
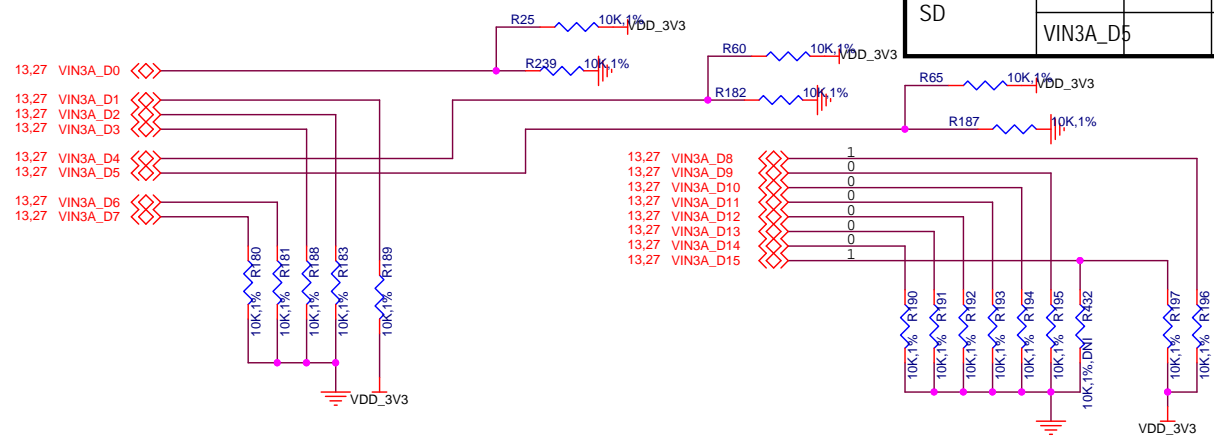
- 13.27 VIN3A\_D0
- 13.27 VIN3A\_D1
- 13.27 VIN3A\_D2
- 13.27 VIN3A\_D3
- 13.27 VIN3A\_D4
- 13.27 VIN3A\_D5
- 13.27 VIN3A\_D6
- 13.27 VIN3A\_D7
- 13.27 VIN3A\_D8
- 13.27 VIN3A\_D9
- 13.27 VIN3A\_D10
- 13.27 VIN3A\_D11
- 13.27 VIN3A\_D12
- 13.27 VIN3A\_D13
- 13.27 VIN3A\_D14
- 13.27 VIN3A\_D15



	1-2	2-3
BOOT from SD then eMMC	VIN3A_D0 VIN3A_D4 VIN3A_D5	X X X
BOOT from UART	VIN3A_D0 VIN3A_D4 VIN3A_D5	X X X
BOOT from SATA then SD	VIN3A_D0 VIN3A_D4 VIN3A_D5	X X X

R25 R60 R187 不焊接  
R239 R182 R65 焊接

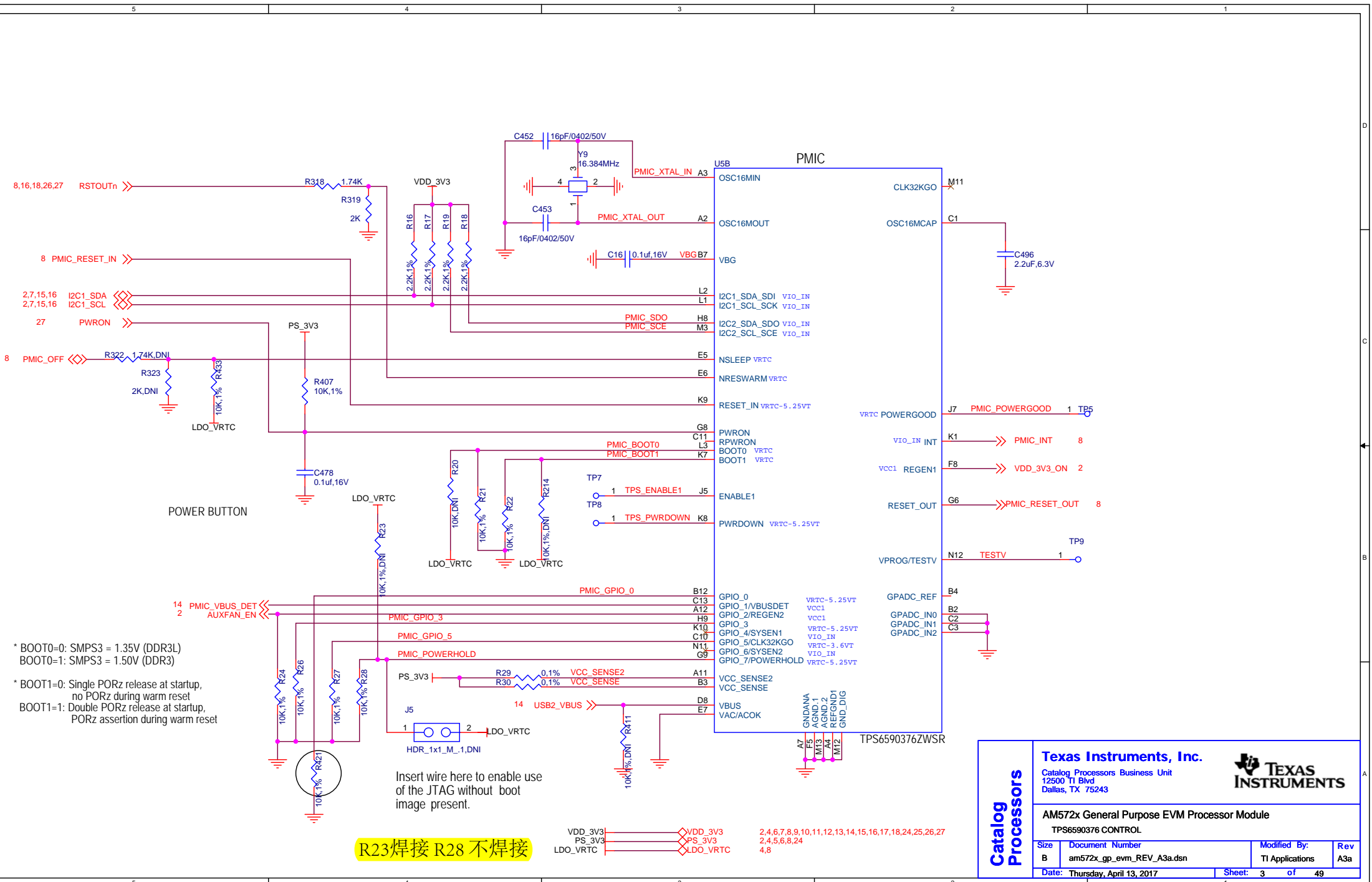
VDD\_3V3 2,3,4,6,7,8,9,10,11,12,14,15,16,17,18,24,25,26,27



REV	DESCRIPTION	DATE	BY
A3a	<p>* PMIC reset threshold was increased from 0.84 volts to 3.07 volts by changing U13 from TPS3808G09DBVR to TPS3808G33DBVR.</p> <p>*SYSBOOT[15] was changed from "0" to "1", by changing R432 to DNI and installing a 10k resistor in R197.</p> <p>*eMMC signals connected to MMC2 were pulled high by installing 47k resistors in R250,R251,R252,R253,R254,R255,R256,R257,R258, and R259.</p>	7/11/2016	TI

P01 TITLE PAGE  
P02 12V INPUT, 3.3V AND 5V SWITCHERS  
P03 TPS6590376 1 CONTROL  
P04 TPS6590376 2 RESET, & RTC  
P05 TPS6590376 3 MPU,DDR, & DSP SWITCHERS  
P06 TPS6590376 4 CORE & 1.8V  
P07 AM572X CORE POWER & EEPROM  
P08 AM572X CLOCKS AND RESET  
P09 AM572X IO POWER AND GROUND  
P10 AM572X DDR3 POWER & JTAG  
P11 AM572X ETHERNET 1  
P12 AM572X ETHERNET 2  
P13 AM572X GPMC & LCD  
P14 AM572X USB INTERFACES  
P15 AM572X I/O, LEDs, AND GPIO  
P16 AM572X AUDIO & DEBUG SERIAL  
P17 AM572X HDMI PORT  
P18 AM572X eMMC, MMC3, & uSD  
P19 AM572X DDR INTERFACE 1  
P20 AM572X DDR INTERFACE 2  
P21 DDR3 BANK 1  
P22 DDR3 BANK 2  
P23 DDR3 BANK 2 CAPS & TERM  
P24 DDR3 BANK 1 CAPS & TERM  
P25 USB & SATA CONNECTOR  
P26 PCIe, SATA, & SERDES CLOCK  
P27 EXPANSION HEADERS  
P28 MECHANICAL

<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b> Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243		
	<b>AM572x General Purpose EVM Processor Module</b>		
	Title Page		
Size	Document Number	Modified By:	Rev
B	am572x_gp_evm_REV_A3a.dsn	TI Applications	A3a
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\* BOOT0=0: SMPS3 = 1.35V (DDR3L)  
 BOOT0=1: SMPS3 = 1.50V (DDR3)

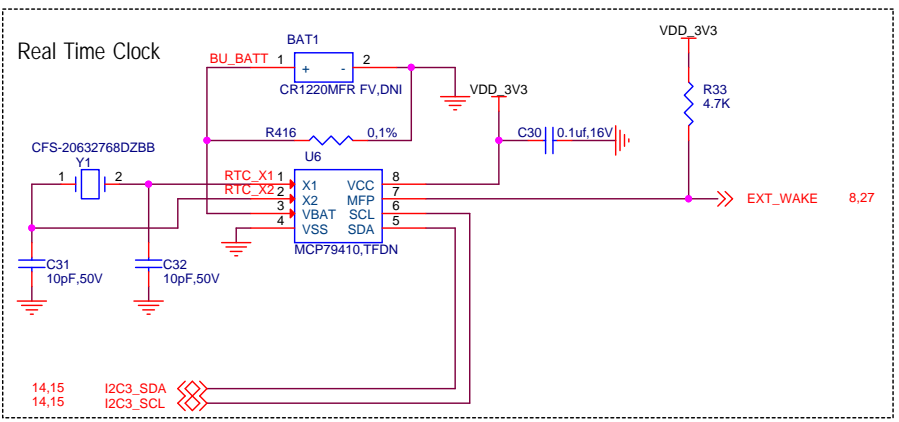
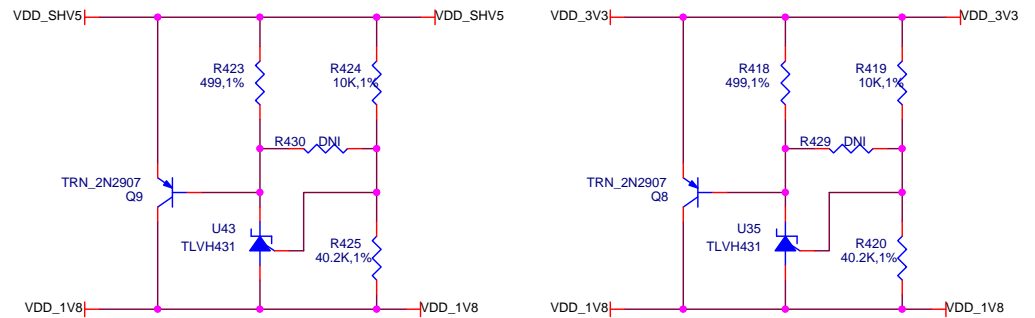
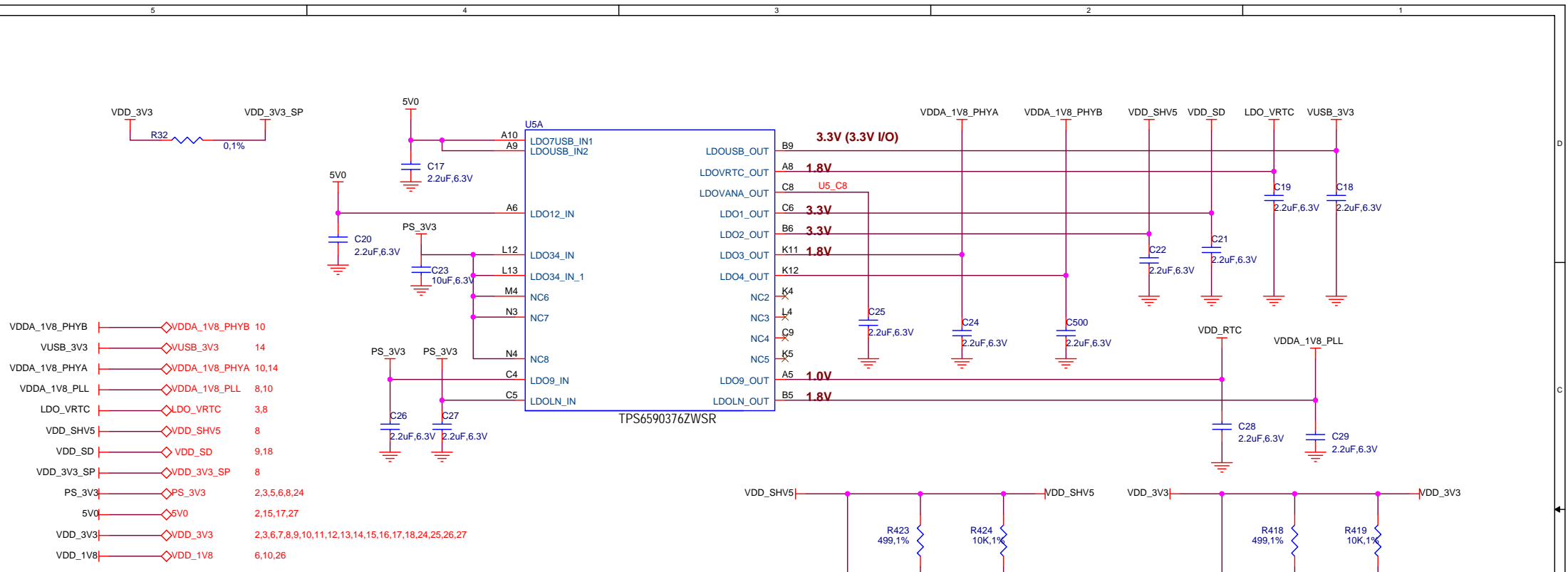
\* BOOT1=0: Single PORz release at startup,  
 no PORz during warm reset  
 BOOT1=1: Double PORz release at startup,  
 PORz assertion during warm reset

R23焊接 R28 不焊接

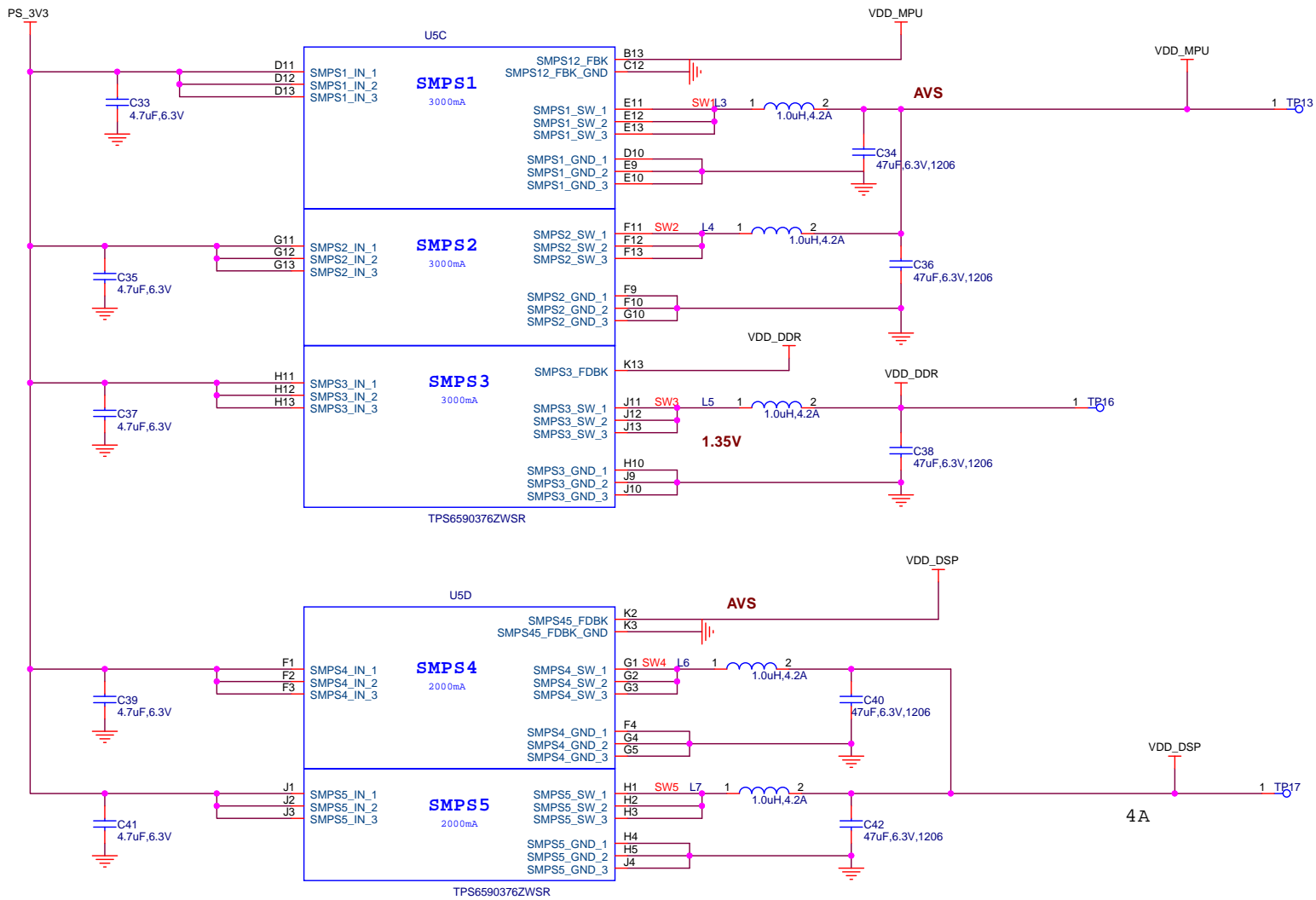
Insert wire here to enable use of the JTAG without boot image present.

VDD_3V3	◇ VDD_3V3	2,4,6,7,8,9,10,11,12,13,14,15,16,17,18,24,25,26,27
PS_3V3	◇ PS_3V3	2,4,5,6,8,24
LDO_VRTC	◇ LDO_VRTC	4,8

<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b>		
	Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243		
<b>AM572x General Purpose EVM Processor Module</b>			
TPS6590376 CONTROL			
Size	Document Number	Modified By:	Rev
B	am572x_gp_evms_REV_A3a.dsn	TI Applications	A3a
Date: Thursday, April 13, 2017		Sheet: 3 of 49	

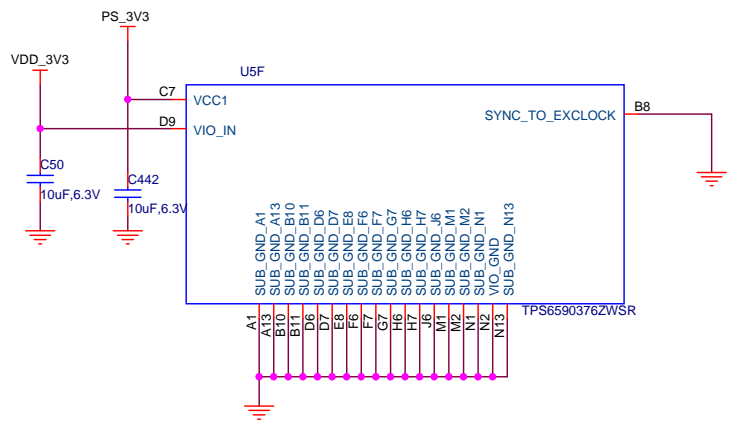
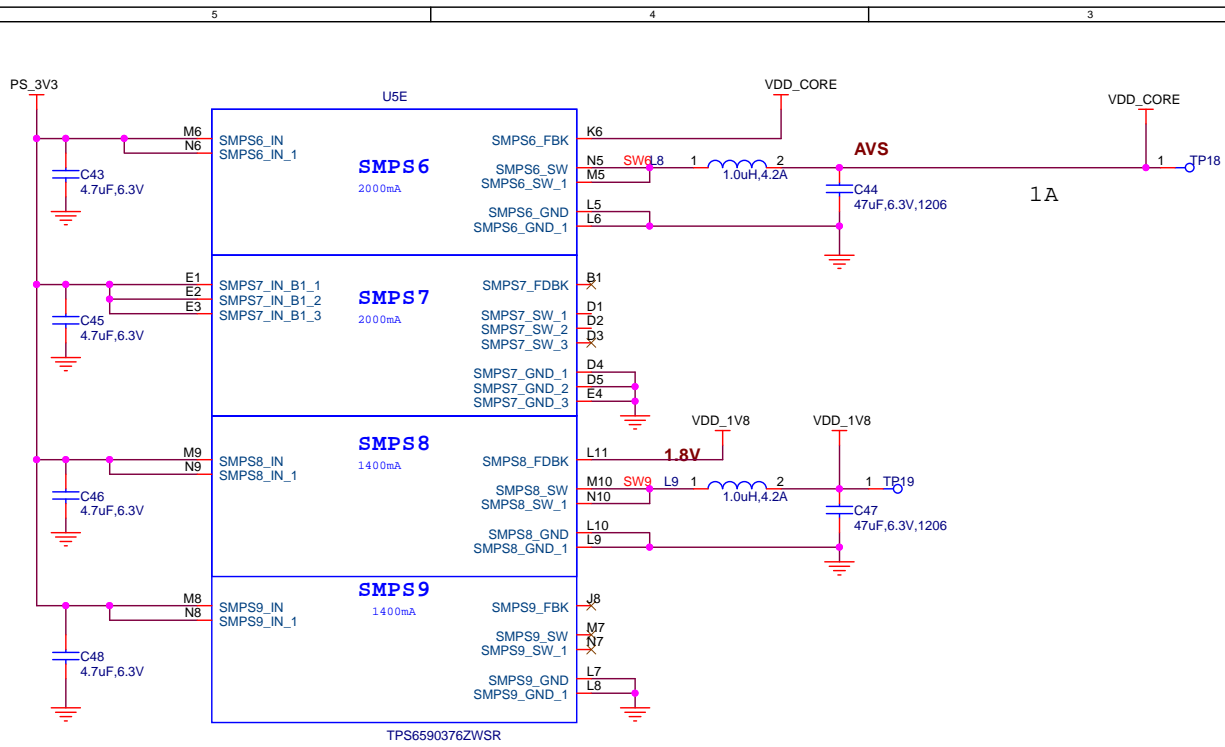


<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b>			
	Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243			
	<b>AM572x General Purpose EVM Processor Module</b>			
	TPS6590376 CONTROL			
Size	Document Number	Modified By:	Rev	
B	am572x_gp_evm_REV_A3a.dsn	TI Applications	A3a	
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VDD_MPU	◇	VDD_MPU	2.7,8
VDD_DDR	◇	VDD_DDR	10,19,21,22,23,24
VDD_DSP	◇	VDD_DSP	2.7
PS_3V3	◇	PS_3V3	2,3,4,6,8,24

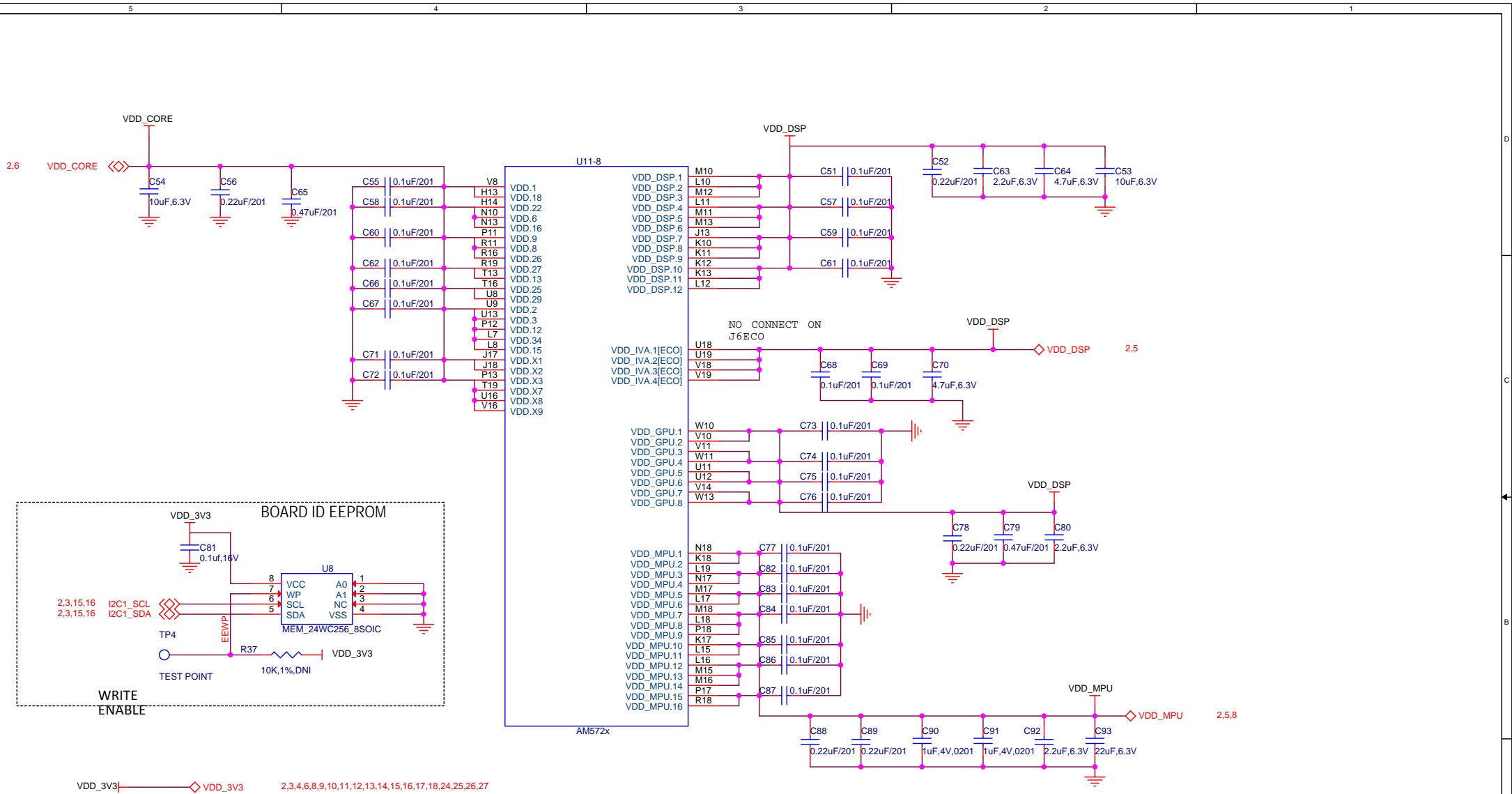
<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b>			
	Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243			
	<b>AM572x General Purpose EVM Processor Module</b> TPS6590376 MPU, DDR, & DSP			
Size	Document Number	Modified By:	Rev	
B	am572x_gp_evm_REV_A3a.dsn	TI Applications	A3a	
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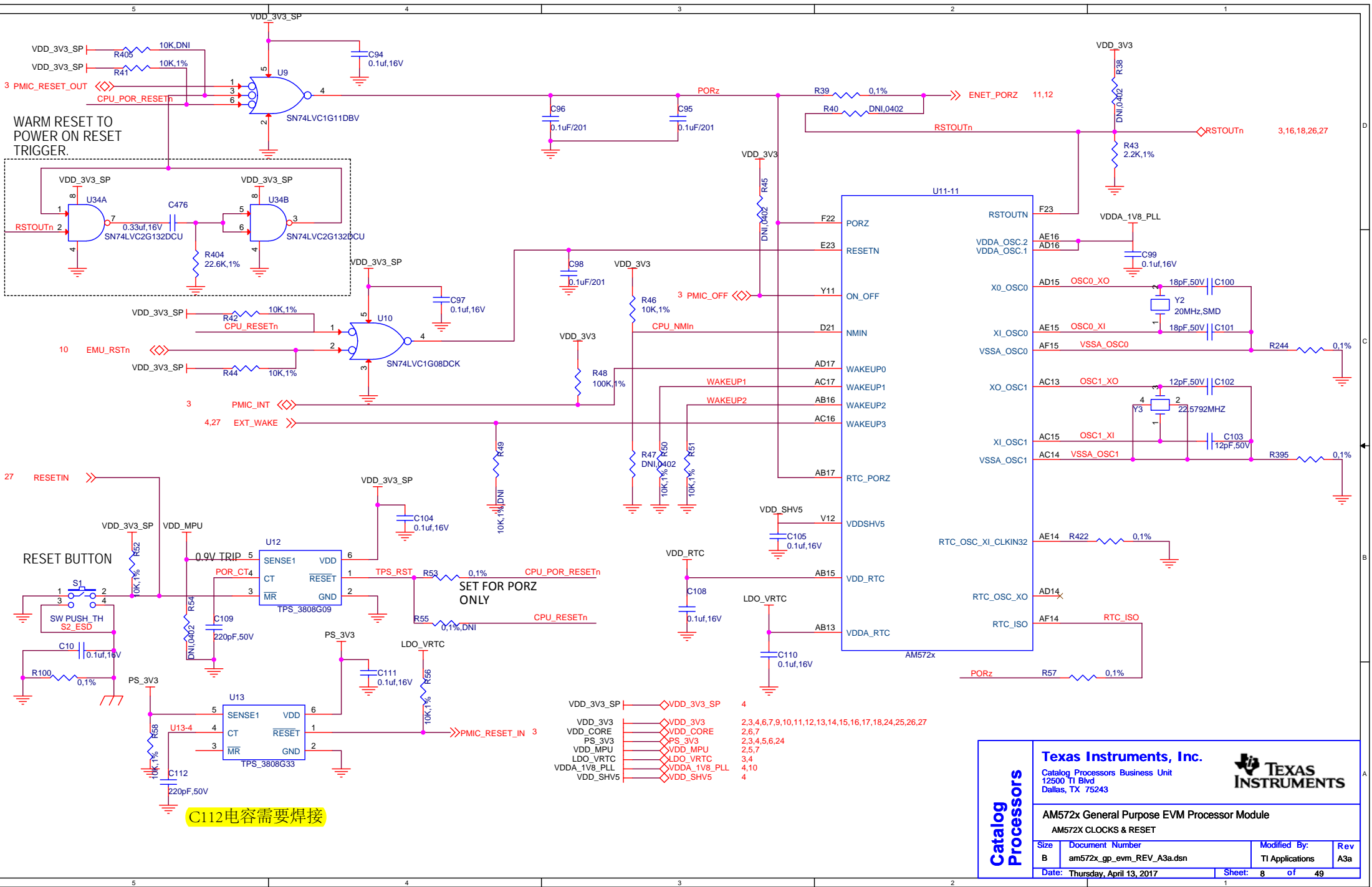
PS_3V3	◇ PS_3V3	2,3,4,5,8,24
VDD_3V3	◇ VDD_3V3	2,3,4,7,8,9,10,11,12,13,14,15,16,17,18,24,25,26,27
VDD_1V8	◇ VDD_1V8	4,10,26
VDD_CORE	◇ VDD_CORE	2,7

Catalog Processors	<b>Texas Instruments, Inc.</b> Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243				
	<b>AM572x General Purpose EVM Processor Module</b> TPS6590376 SWITCHERS				
	Size	Document Number	Modified By:		Rev
	B	am572x_gp_evm_REV_A3a.dsn	TI Applications		A3a
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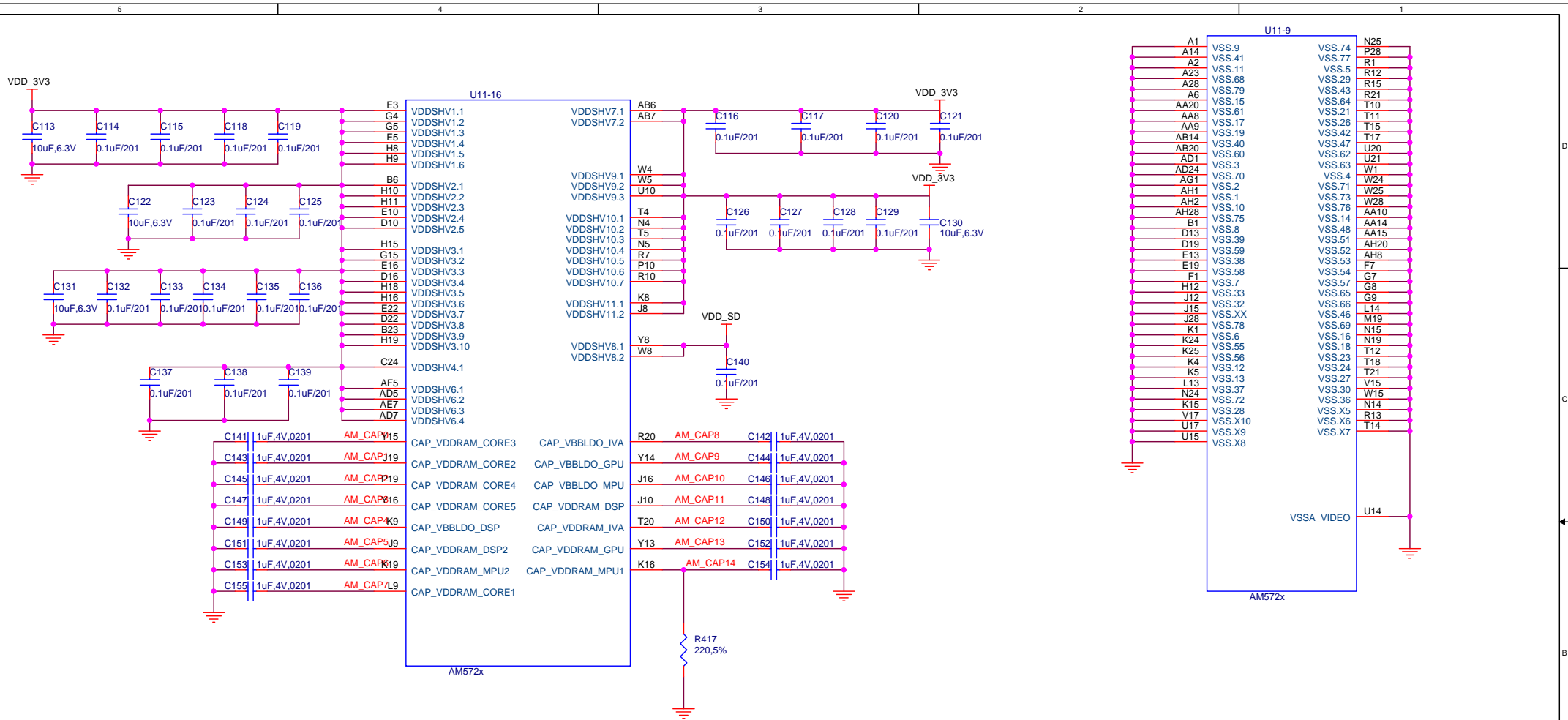
<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b> Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243			
	<b>AM572x General Purpose EVM Processor Module</b> AM5728 CORE POWER			
	Size	Document Number	Modified By:	Rev
	B	am572x_gp_evm_REV_A3a.dsn	TI Applications	A3a
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C112电容需要焊接

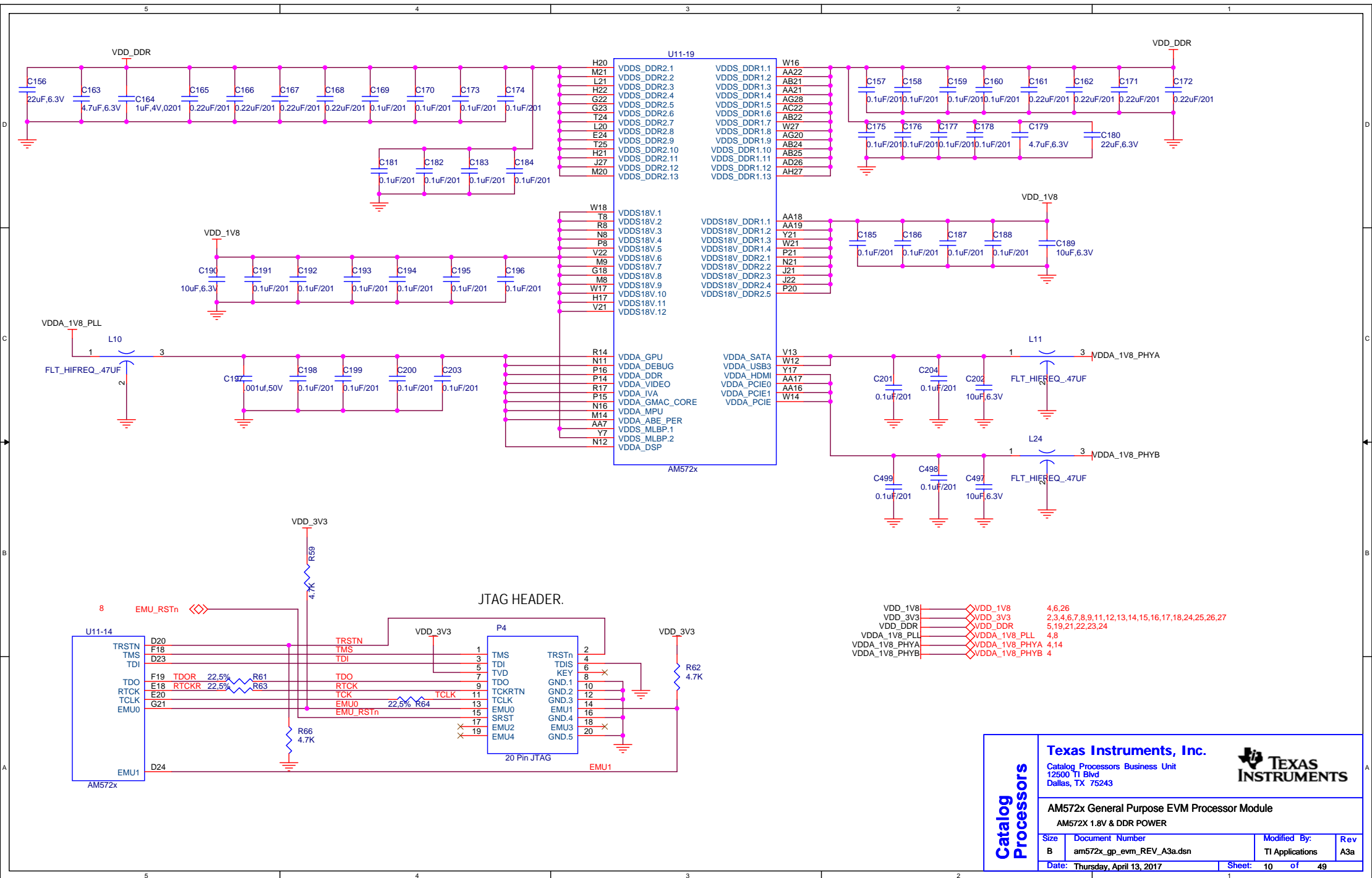
VDD_3V3_SP	◇ VDD_3V3_SP	4
VDD_3V3	◇ VDD_3V3	2,3,4,6,7,9,10,11,12,13,14,15,16,17,18,24,25,26,27
VDD_CORE	◇ VDD_CORE	2,6,7
PS_3V3	◇ PS_3V3	2,3,4,5,6,24
VDD_MPU	◇ VDD_MPU	2,5,7
LDO_VRTC	◇ LDO_VRTC	3,4
VDDA_1V8_PLL	◇ VDDA_1V8_PLL	4,10
VDD_SHV5	◇ VDD_SHV5	4

<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b> Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243				
	<b>AM572x General Purpose EVM Processor Module</b> <b>AM572X CLOCKS &amp; RESET</b>				
	Size	Document Number	Modified By:		Rev
	B	am572x_gp_evms_REV_A3a.dsn	TI Applications		A3a
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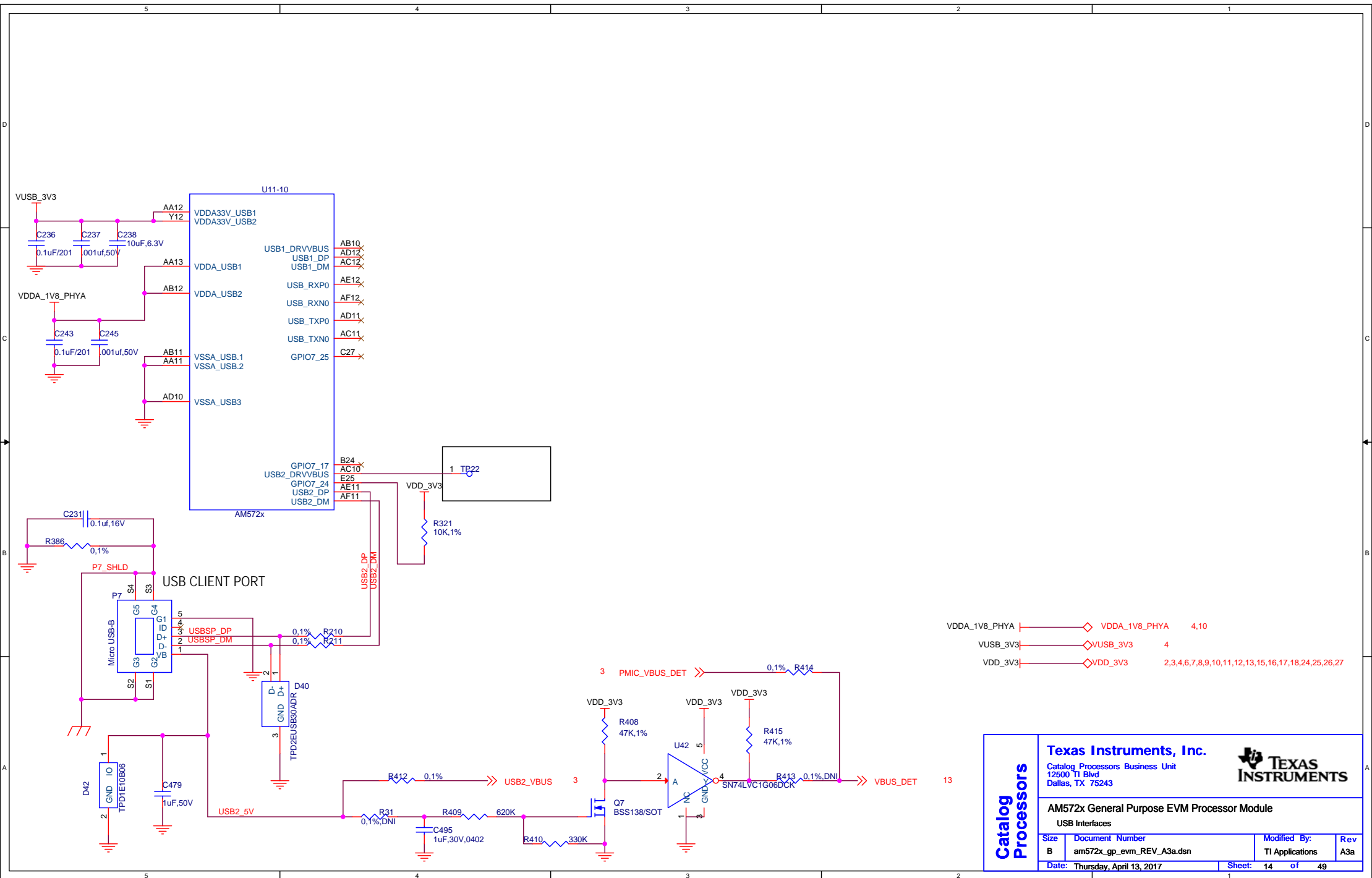


VDD\_SD |-----◇ VDD\_SD      4,18  
 VDD\_3V3 |-----◇ VDD\_3V3    2,3,4,6,7,8,10,11,12,13,14,15,16,17,18,24,25,26,27

<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b>		
	Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243		
	<b>AM572x General Purpose EVM Processor Module</b>		
<b>AM572x I/O POWER &amp; GROUND</b>			
Size	Document Number	Modified By:	Rev
B	am572x_gp_evm_REV_A3a.dsn	TI Applications	A3a
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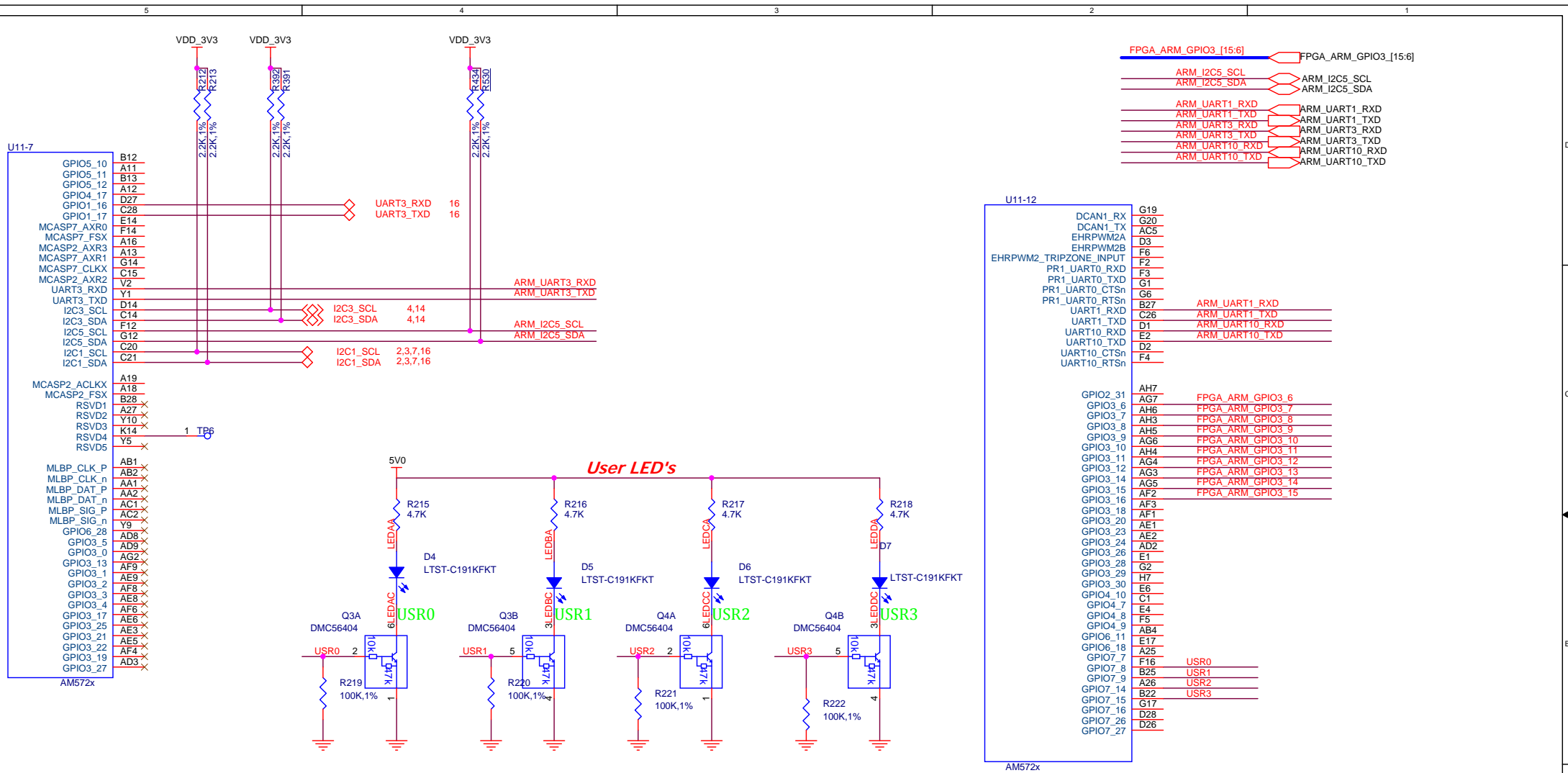


<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b>				
	Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243				
	<b>AM572x General Purpose EVM Processor Module</b> AM572X 1.8V & DDR POWER				
Size	Document Number	Modified By:	Rev		
B	am572x_gp_evm_REV_A3a.dsn	TI Applications	A3a		
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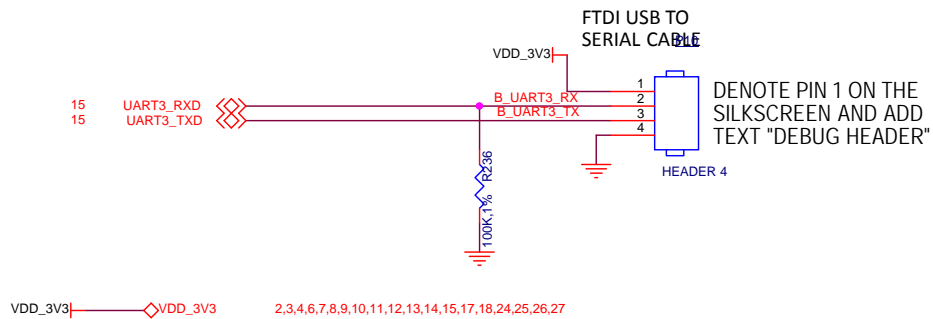
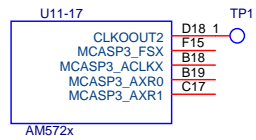
- VDDA\_1V8\_PHYA | VDDA\_1V8\_PHYA | 4,10
- VUSB\_3V3 | VUSB\_3V3 | 4
- VDD\_3V3 | VDD\_3V3 | 2,3,4,6,7,8,9,10,11,12,13,15,16,17,18,24,25,26,27

<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b>			
	Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243			
	<b>AM572x General Purpose EVM Processor Module</b>			
	USB Interfaces			
Size	Document Number	Modified By:	Rev	
B	am572x_gp_evm_REV_A3a.dsn	TI Applications	A3a	
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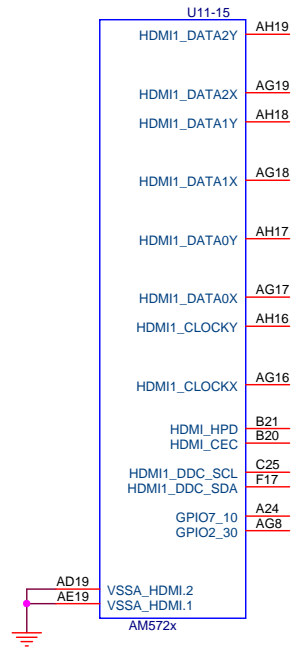


<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b>		
	Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243		
	<b>AM572x General Purpose EVM Processor Module</b>		
	I/O and LEDs		
Size	Document Number	Modified By:	Rev
B	am572x_gp_evm_REV_A3a.dsn	TI Applications	A3a
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DEBUG HEADER

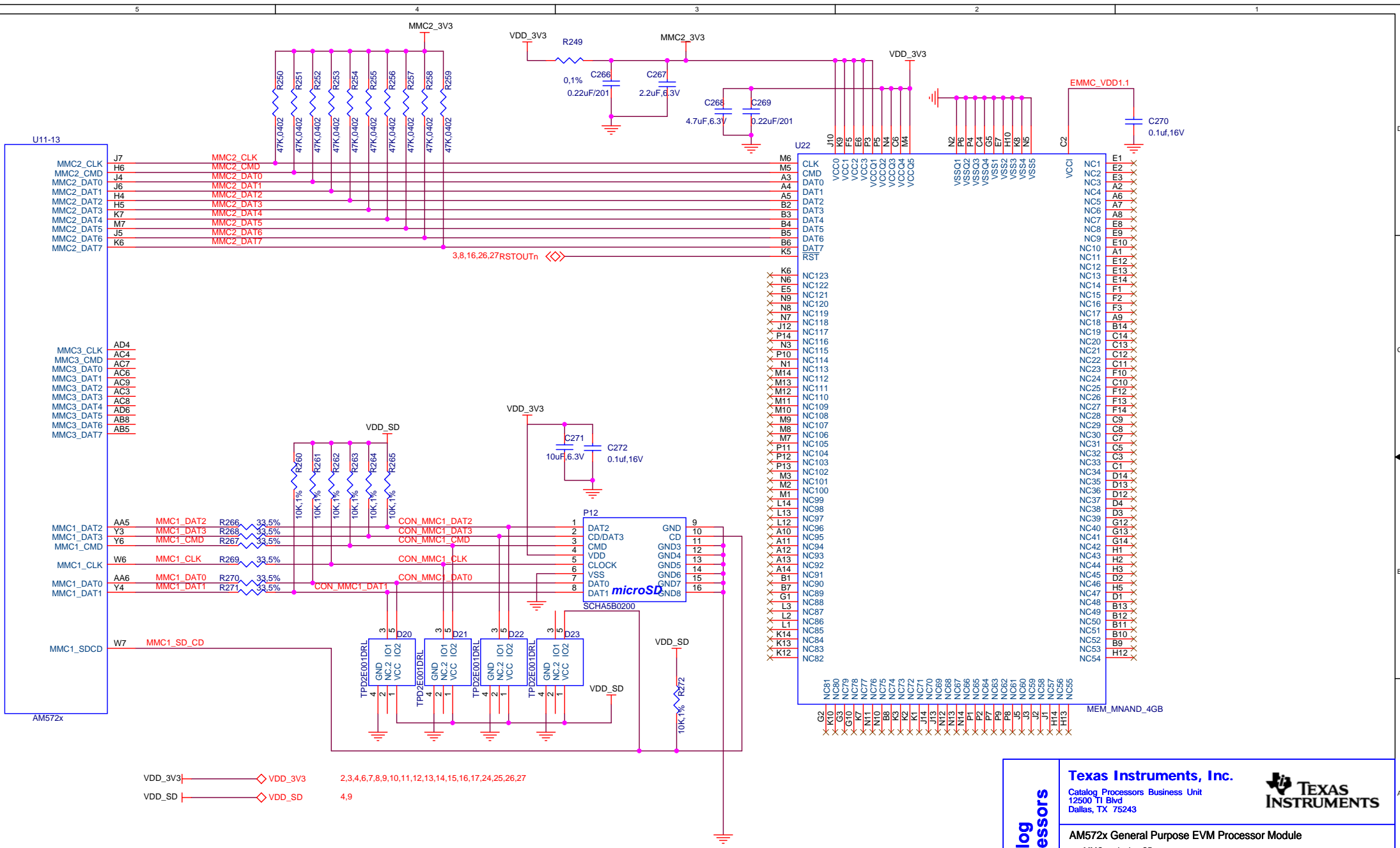


<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b>		
	Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243		
	AM572x General Purpose EVM Processor Module Audio CODEC and Debug Port		
Size	Document Number	Modified By:	Rev
B	am572x_gp_evm_REV_A3a.dsn	TI Applications	A3a
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<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b> Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243			
	<b>AM572x General Purpose EVM Processor Module</b> HDMI Port			
	Size	Document Number	Modified By:	Rev
	B	am572x_gp_evm_REV_A3a.dsn	TI Applications	A3a
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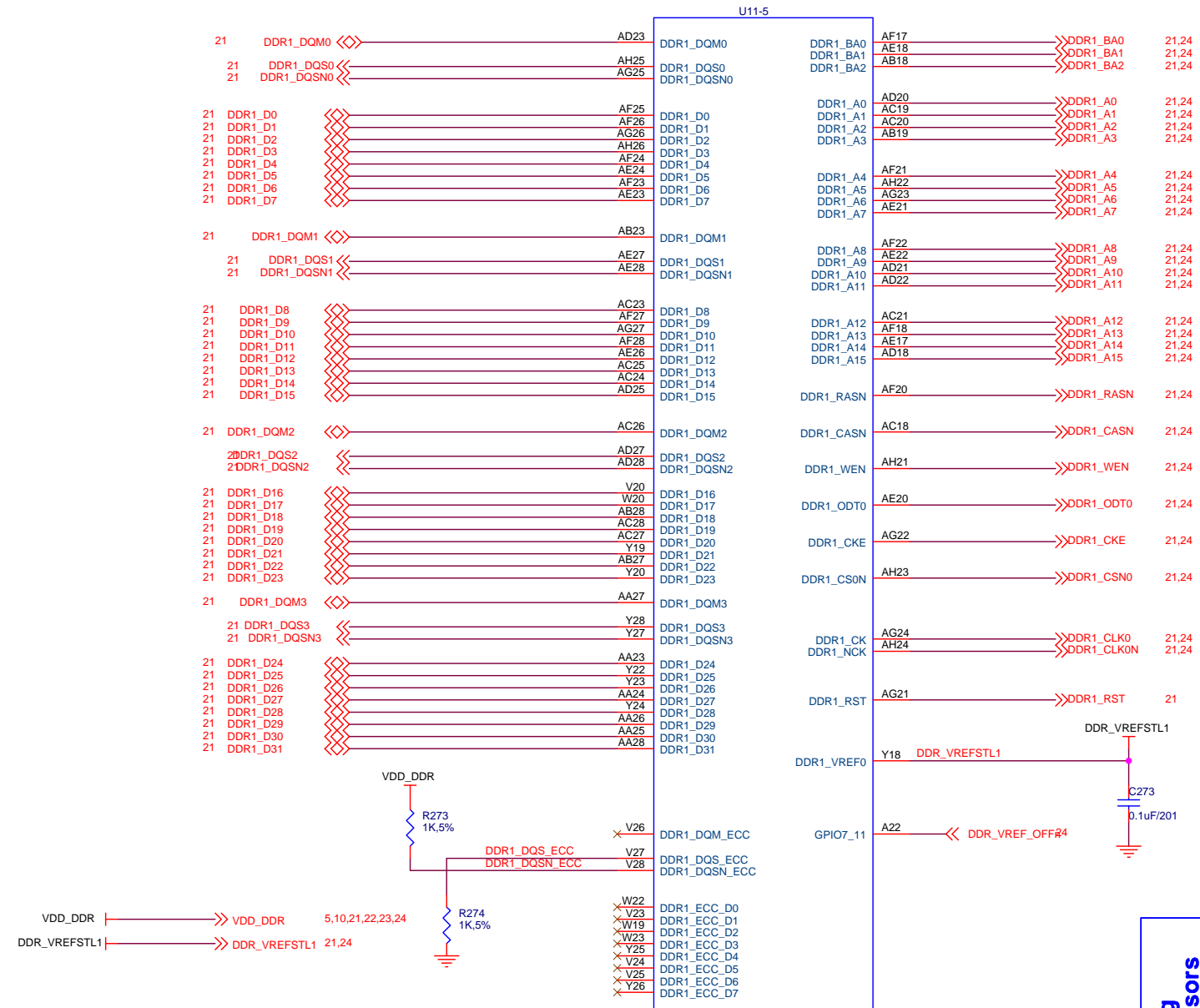




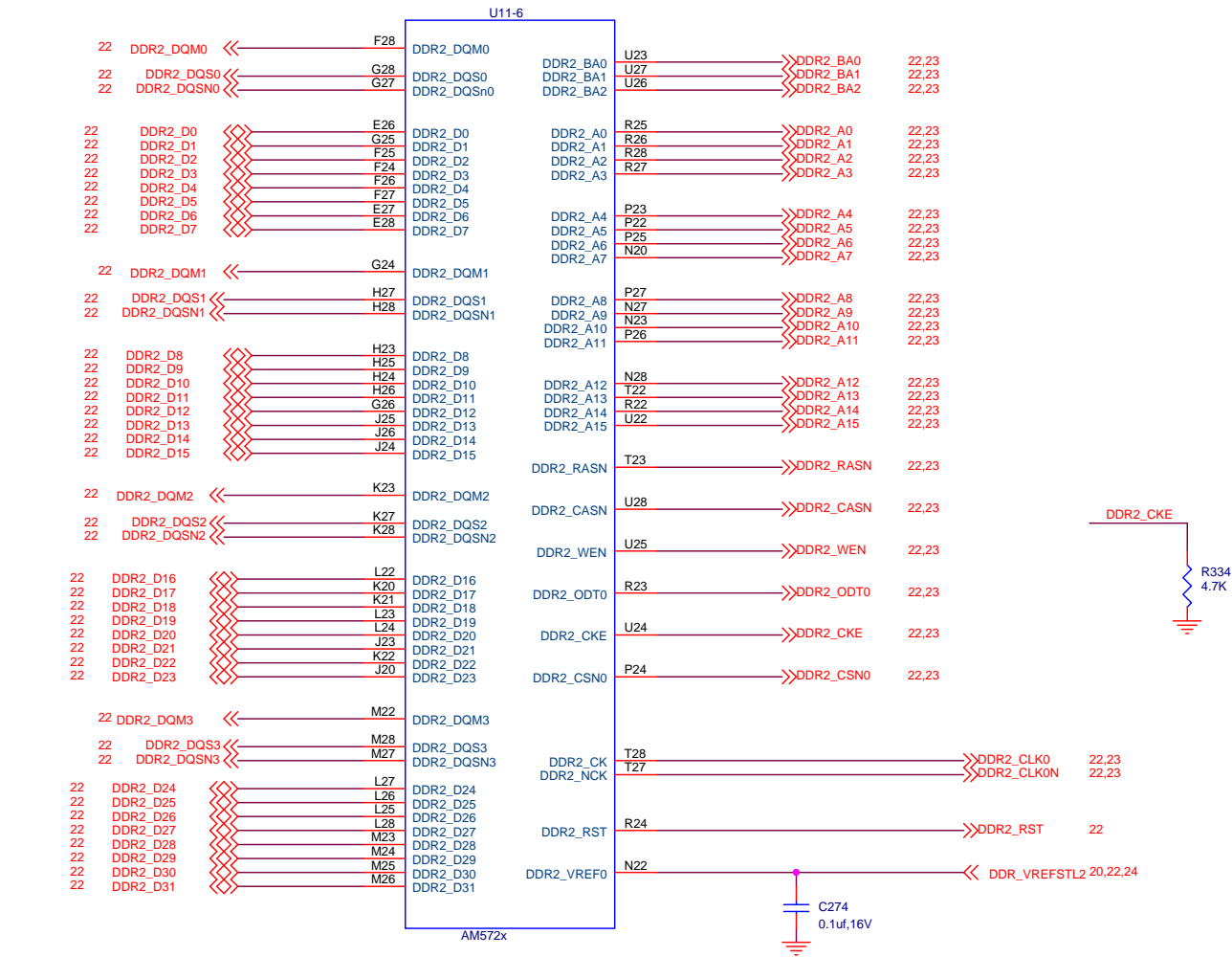
VDD\_3V3  $\diamond$  VDD\_3V3 2,3,4,6,7,8,9,10,11,12,13,14,15,16,17,24,25,26,27  
 VDD\_SD  $\diamond$  VDD\_SD 4,9

<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b>		
	Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243		
	<b>AM572x General Purpose EVM Processor Module</b> eMMC and microSD		
Size	Document Number	Modified By:	Rev
B	am572x_gp_ev_m_REV_A3a.dsn	TI Applications	A3a
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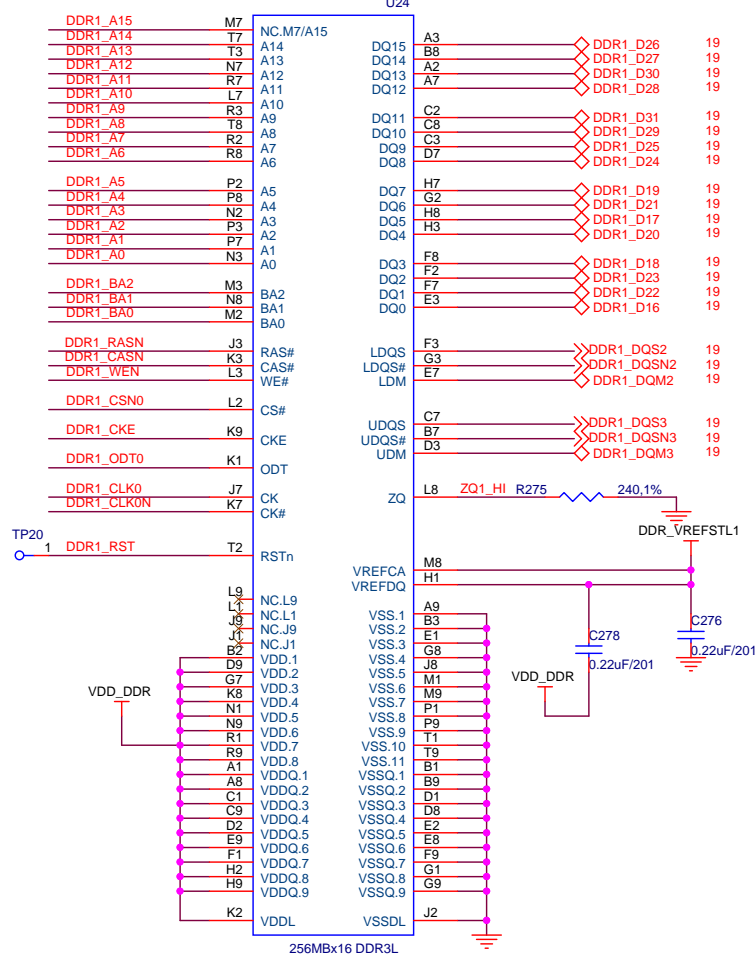
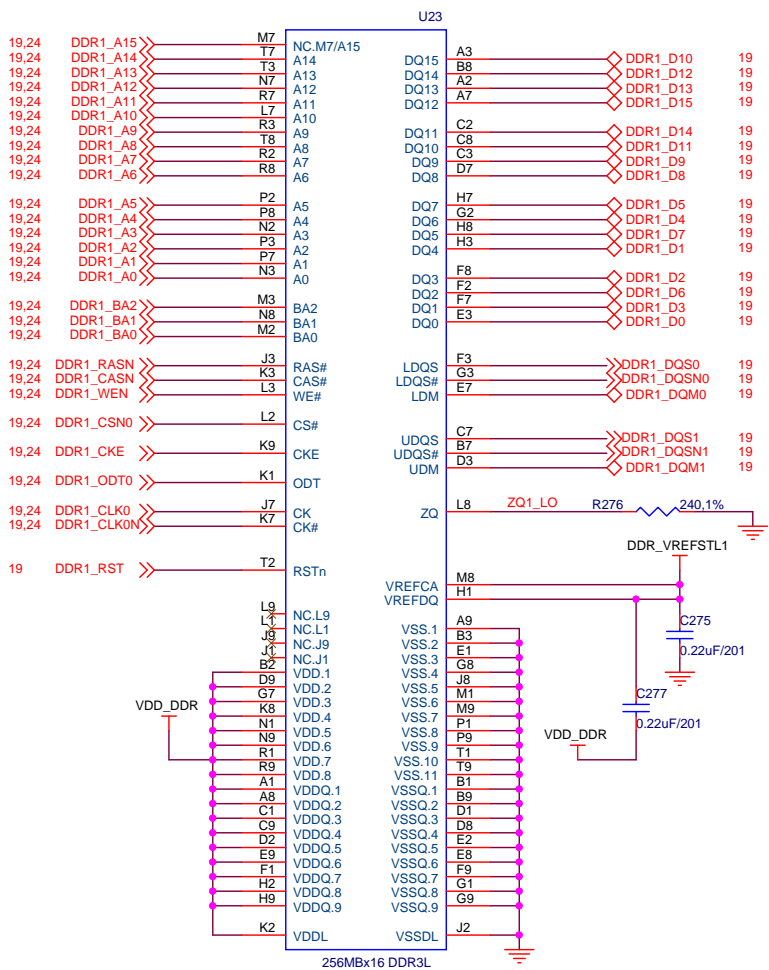


<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b>		
	Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243		
<b>AM572x General Purpose EVM Processor Module</b>			
AM572x DDR3 Interface 1			
Size	Document Number	Modified By:	Rev
B	am572x_gp_evmm_REV_A3a.dsn	TI Applications	A3a
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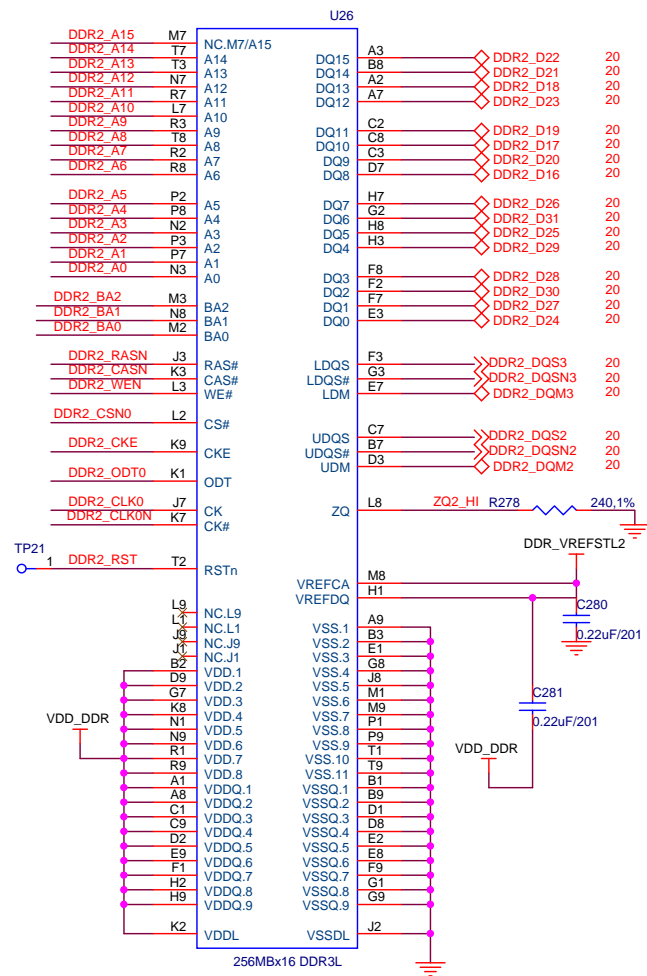
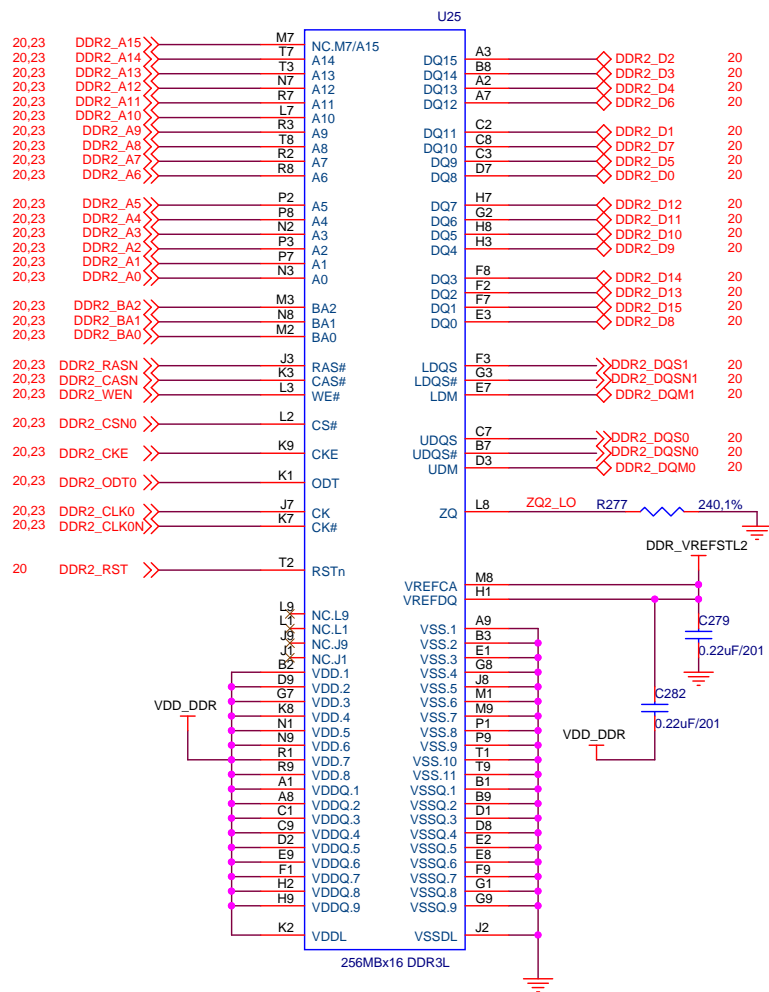


DDR\_VREFSTL2 → DDR\_VREFSTL2 20,22,24

<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b> Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243			
	<b>AM572x General Purpose EVM Processor Module</b> AM572x DDR3 Interface 2			
	Size	Document Number	Modified By:	Rev
B	am572x_gp_evm_REV_A3a.dsn	TI Applications	A3a	
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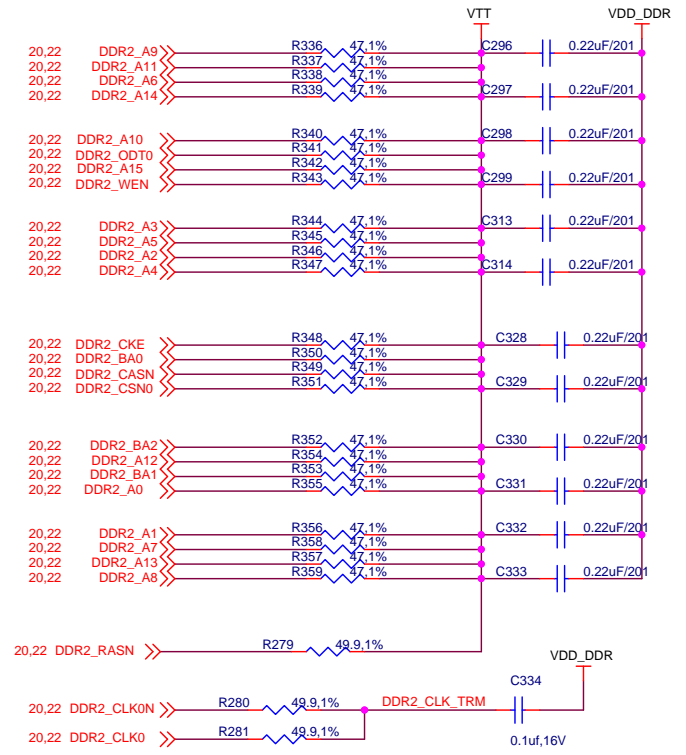
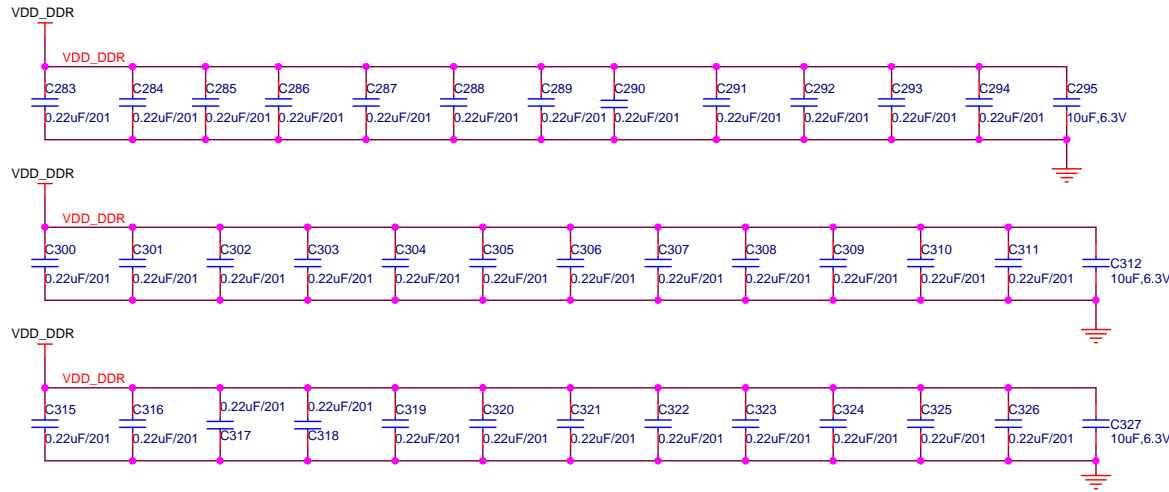
<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b>		
	Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243		
	<b>AM572x General Purpose EVM Processor Module</b>		
	DDR3 Bank 1		
Size	Document Number	Modified By:	Rev
B	am572x_gp_evm_REV_A3a.dsn	TI Applications	A3a
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VDD\_DDR — VDD\_DDR 5,10,19,21,23,24

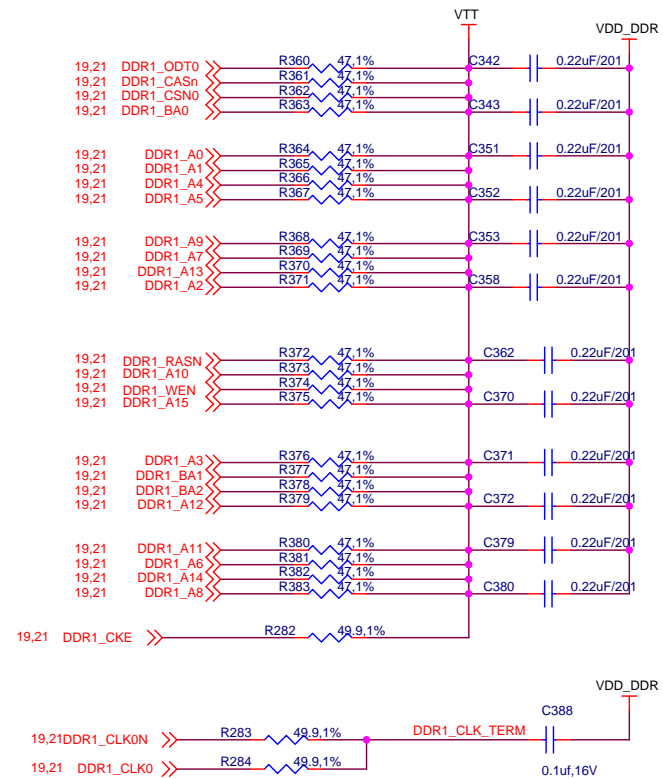
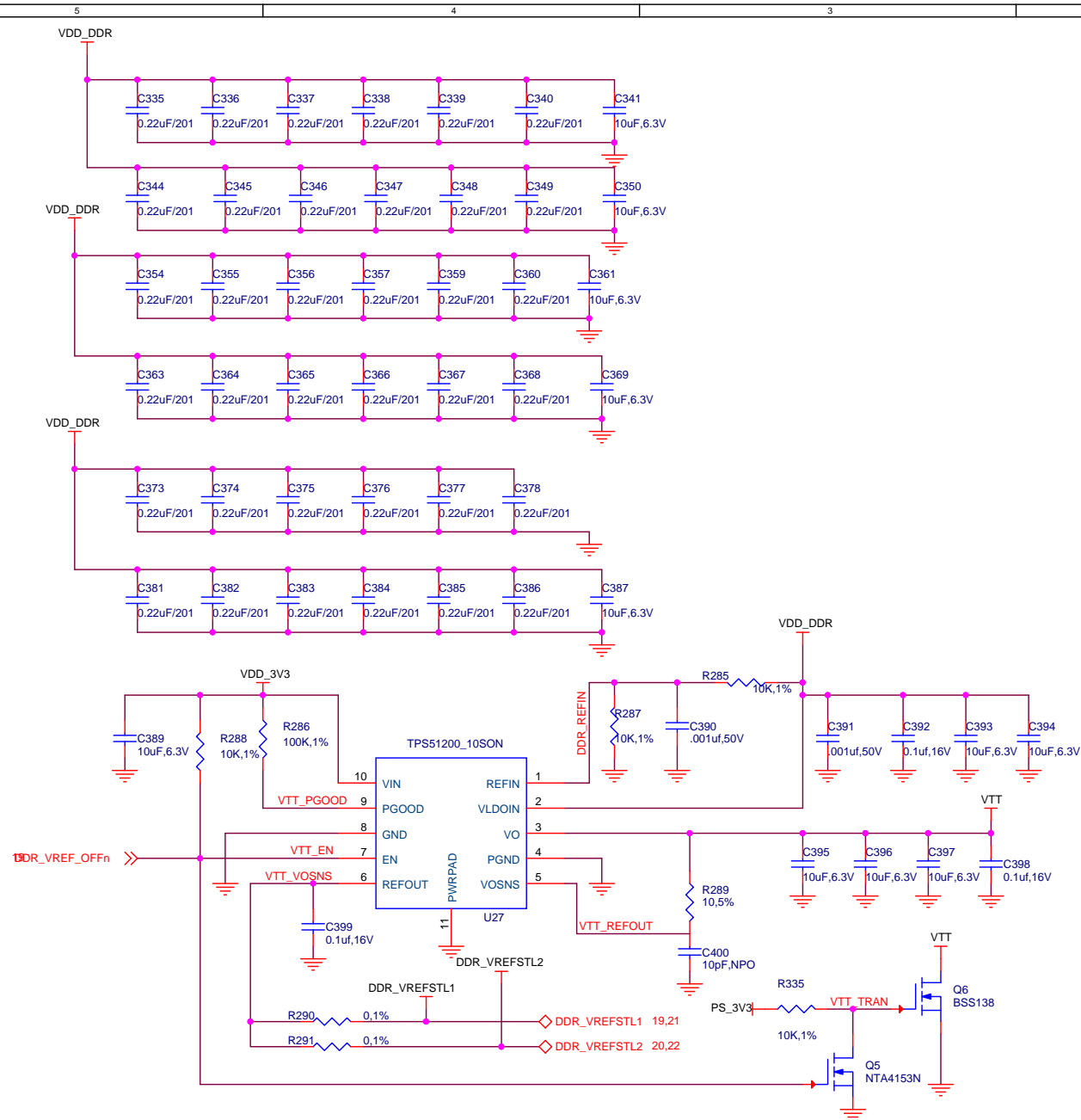
DDR\_VREFSTL2 — DDR\_VREFSTL2 20,24

<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b>		
	Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243		
<b>AM572x General Purpose EVM Processor Module</b>			
DDR3 Bank 2			
Size	Document Number	Modified By:	Rev
B	am572x_gp_evm_REV_A3a.dsn	TI Applications	A3a
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VDD\_DDR ————◇ VDD\_DDR 5,10,19,21,22,24  
 VTT ————◇ VTT 24

<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b>			
	Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243			
	<b>AM572x General Purpose EVM Processor Module</b> DDR3 BANK 2 CAPS AND TERMINATIONS			
Size	Document Number	Modified By:	Rev	
B	am572x_gp_ev_m_REV_A3a.dsn	TI Applications	A3a	
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PS_3V3	◇ PS_3V3	2,3,4,5,6,8
VDD_DDR	◇ VDD_DDR	5,10,19,21,22,23
VTT	◇ VTT	23
VDD_3V3	◇ VDD_3V3	2,3,4,6,7,8,9,10,11,12,13,14,15,16,17,18,25,26,27

<b>Catalog Processors</b>	<b>Texas Instruments, Inc.</b>		
	Catalog Processors Business Unit 12500 TI Blvd Dallas, TX 75243		
	<b>AM572x General Purpose EVM Processor Module</b> DDR3 BANK 1 CAPS AND TERMINATIONS		
	Size	Document Number	Modified By:
B	am572x_gp_evmm_REV_A3a.dsn	TI Applications	Rev A3a
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