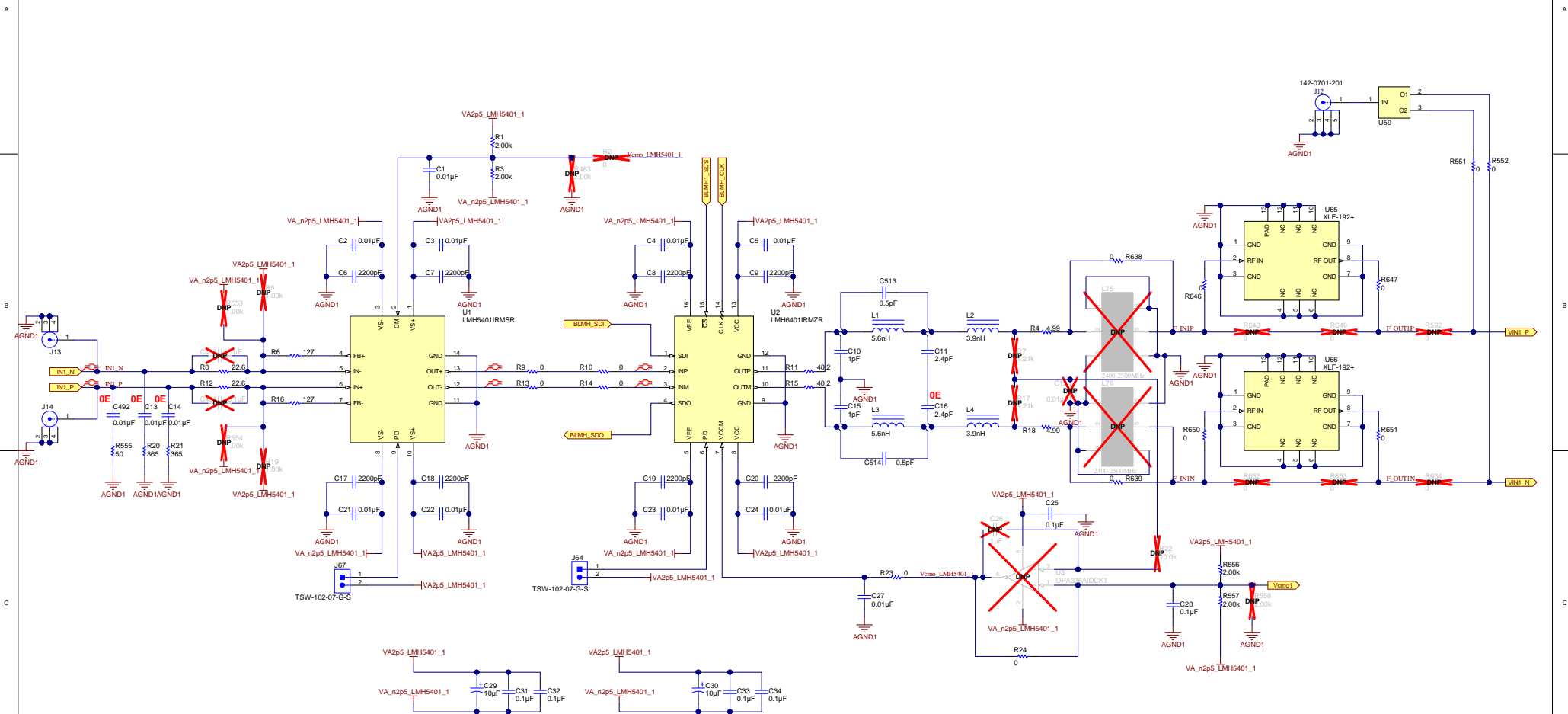


Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

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Orderable: NA	Designed for: Public Release	Mod. Date: 3/5/2019
TID #: 01028	Project Title: TIDA-01028	
Number: TIDA-01028	Rev: E3	Sheet Title: Block Diagram
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A_Onboard_Pow	Sheet: 1 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_CoverSheet_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	


ANALOG INPUT CH-1



Note:

- 1) Replace capacitor (C492, C13, C14) with 0E resistor for DC coupling
50 E impedance

Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Build on: NA			Designed for: Public Release		[Mod. Date: 2/16/2018]	
TID #: 01028			Project Title: TIDA-01028		 TEXAS INSTRUMENTS	
Number: TIDA-01028			Sheet Title: ADC ANALOG INP CH1			
SVN Rev: Version control [Rev: 53]			Assembly Variant: TIDA-01022A Onboard PolySheet: 2 of 26			
Drawn by: Avinash N			File: TIDA-01028-53_ADC ANALOG INP CH1_Sch.Dwg Size: B			
Engineer: Anbu Mani			Contact: http://www.ti.com/support		http://www.ti.com © Texas Instruments 2017	

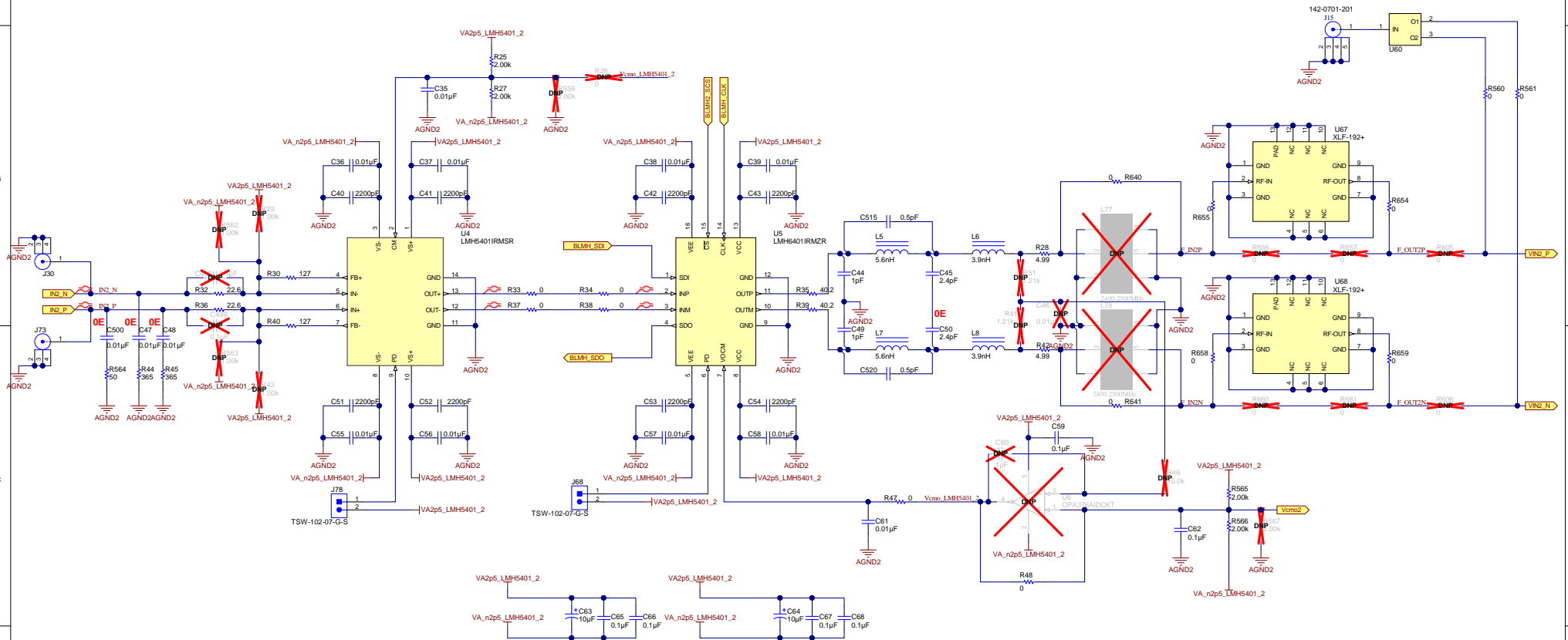
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1	2	3	4	5	6
A					A
B					B
C					C
D					D
1	2	3	4	5	6

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Orderable: NA	Designed for: Public Release	Mod. Date: 5/8/2018
TID #: 01028	Project Title: TIDA-01028	
Number: TIDA-01028	Rev: E3	Sheet Title:
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A_Onboard_Pow	Sheet: 2 of 3
Drawn By:	File: Sheet1.SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

ANALOG INPUT CH-2



Note:

- 1) Replace capacitor (C500, C47, C48) with 0E resistor for DC coupling 50 E impedance

Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

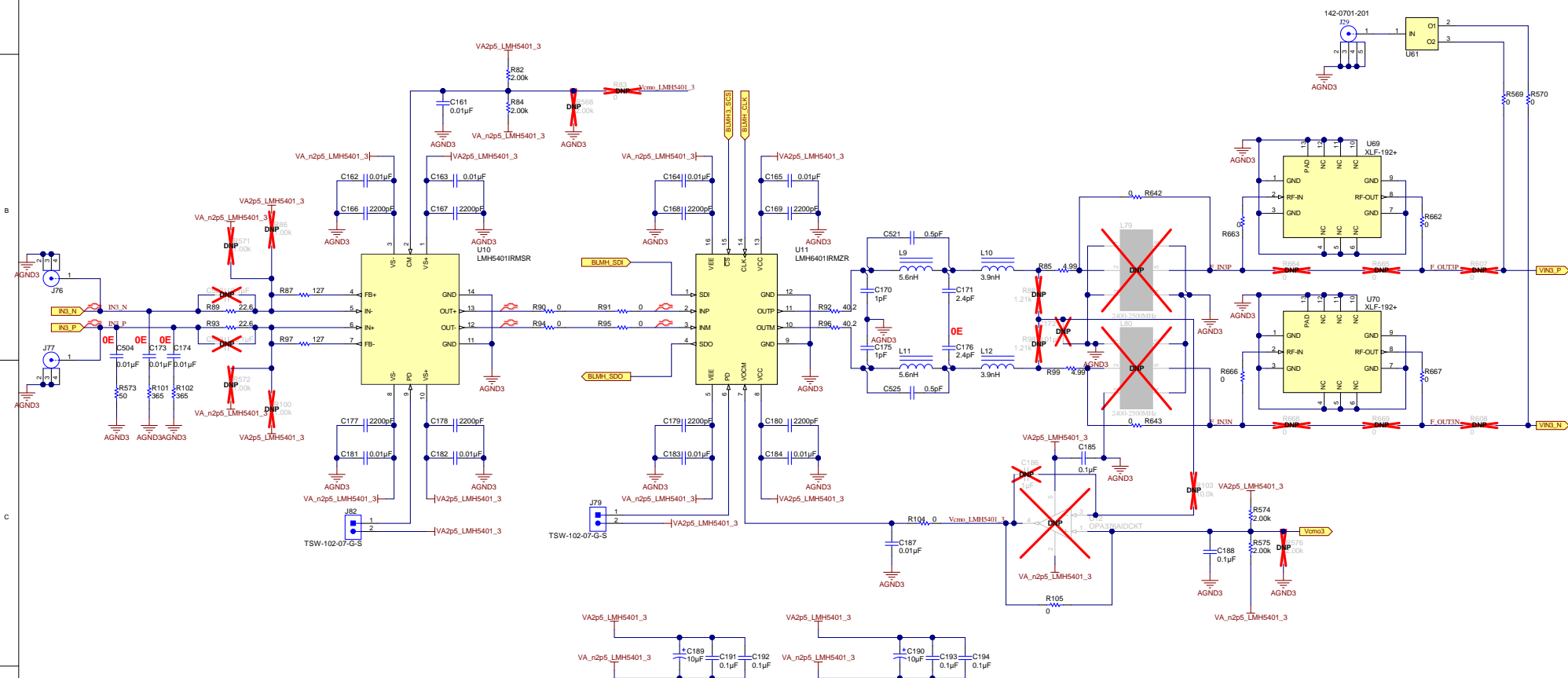
Orderable: NA	Designed for: Public Release	Mod. Date: 2/16/2018
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Number: TIDA-01028	Rev: E3	Sheet Title: ADC-TID01028-CH2
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A Onboard PCB	Sheet: 3 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_ADC_ANALOG_INP_CH2_Sch.Dwg	Size: B
Engineer: Arbu Mala	Contact: http://www.ti.com/support	



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ANALOG INPUT CH-3



Note:

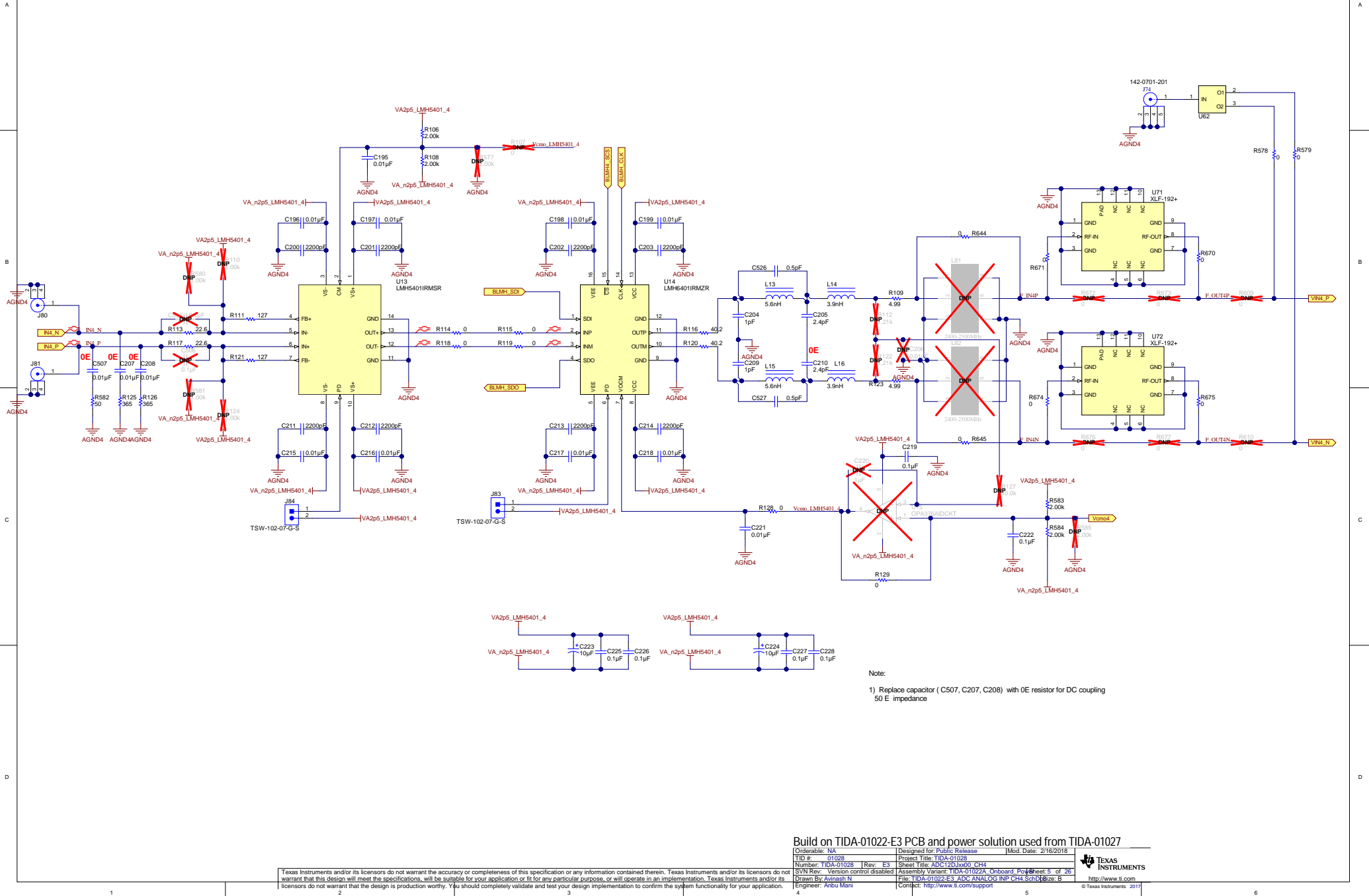
- 1) Replace capacitor (C504, C173, C174) with 0E resistor for DC coupling
50 E impedance

Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Title: UDA-01028-131 GB and power solution using from UDA-01027		Designed for: Public Release		Mod. Date: 2/16/2018	
Order No: 01028		Project Title: UDA-01028		Sheet Title: UDA-01028-131	
Number: UDA-01028		Sheet Title: UDA-01028-131		Sheet: 4 of 26	
SVN Rev: Version control disabled		Assembly Variant: UDA-01028A		Onboard Part: UDA-01028A	
Drawn By: Avinash N		File: UDA-01028-131.ADC ANALOG INP CH3.Sch.Dwg		Size: B	
Engineer: Anbu Mani		Contact: http://www.ti.com/support		http://www.ti.com	
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ANALOG INPUT CH-4



Note:

- 1) Replace capacitor (C507, C207, C208) with 0E resistor for DC coupling 50 E impedance

Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

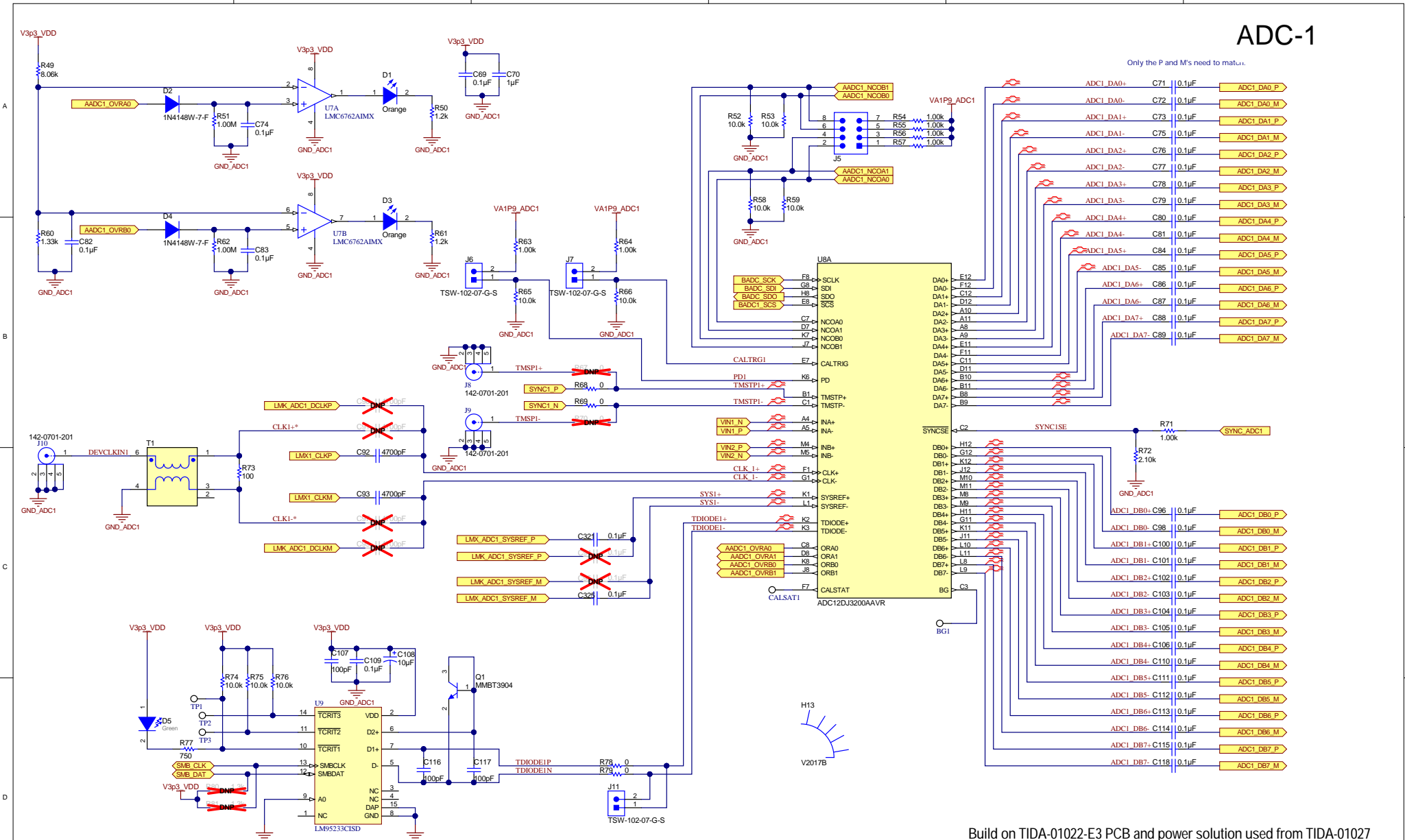
Orderable: NA	Designed for: Public Release	Mod. Date: 2/16/2018
TID # 01028	Project Title: TIDA-01028	
Number: TIDA-01028	Rev: E3	Sheet Title: ADC-TID01028-CH4
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A Onboard PCB	Sheet: 5 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_ADC_ANALOG_INP_CH4_Sch.Dwg	Size: B
Engineer: Arbu Mala	Contact: http://www.ti.com/support	



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ADC-1

Only the P and M's need to matu...



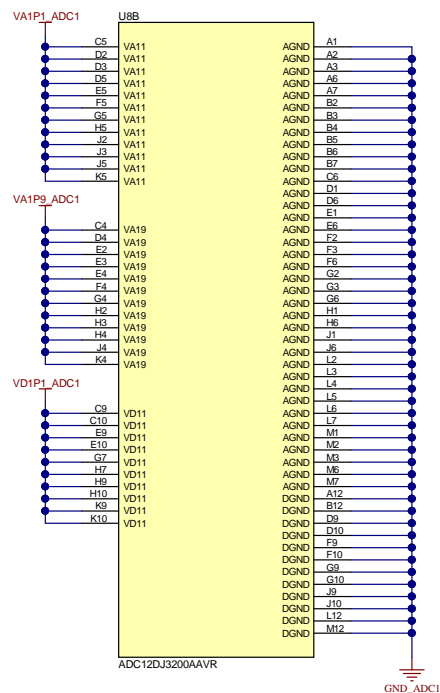
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 2/16/2018
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Number: TIDA-01028 Rev: E3	Sheet Title: ADC12DJ3200A_V0.0_1	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A_Onboard_Pow	Sheet: 6 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_ADC12DJ3200A_1.SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	



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ADC-1



Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

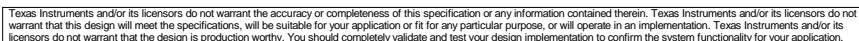
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SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A_Onboard_Pow	Sheet: 7 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_ADC12DJ3200_1PWR_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	



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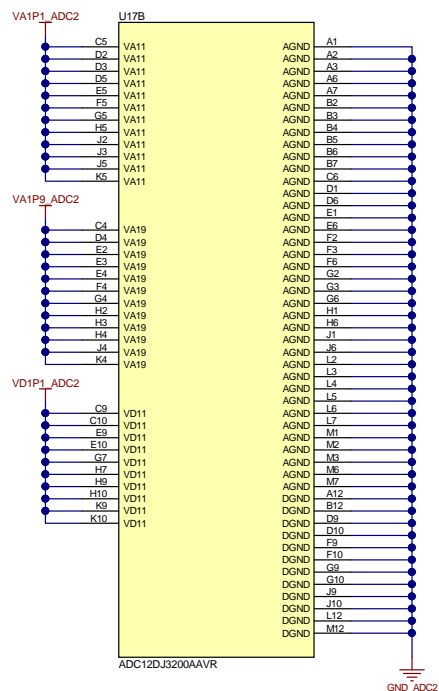
Only the P and M's need to match



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Number: TIDA-01028	Rev: E3	Sheet Title: ADC12DJxx00_2
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A Onboard Power	Sheet 8 of 26
Drawn by: Avinash N	File: TIDA-01022-E3_ADC12DJxx00_2_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	



ADC-2



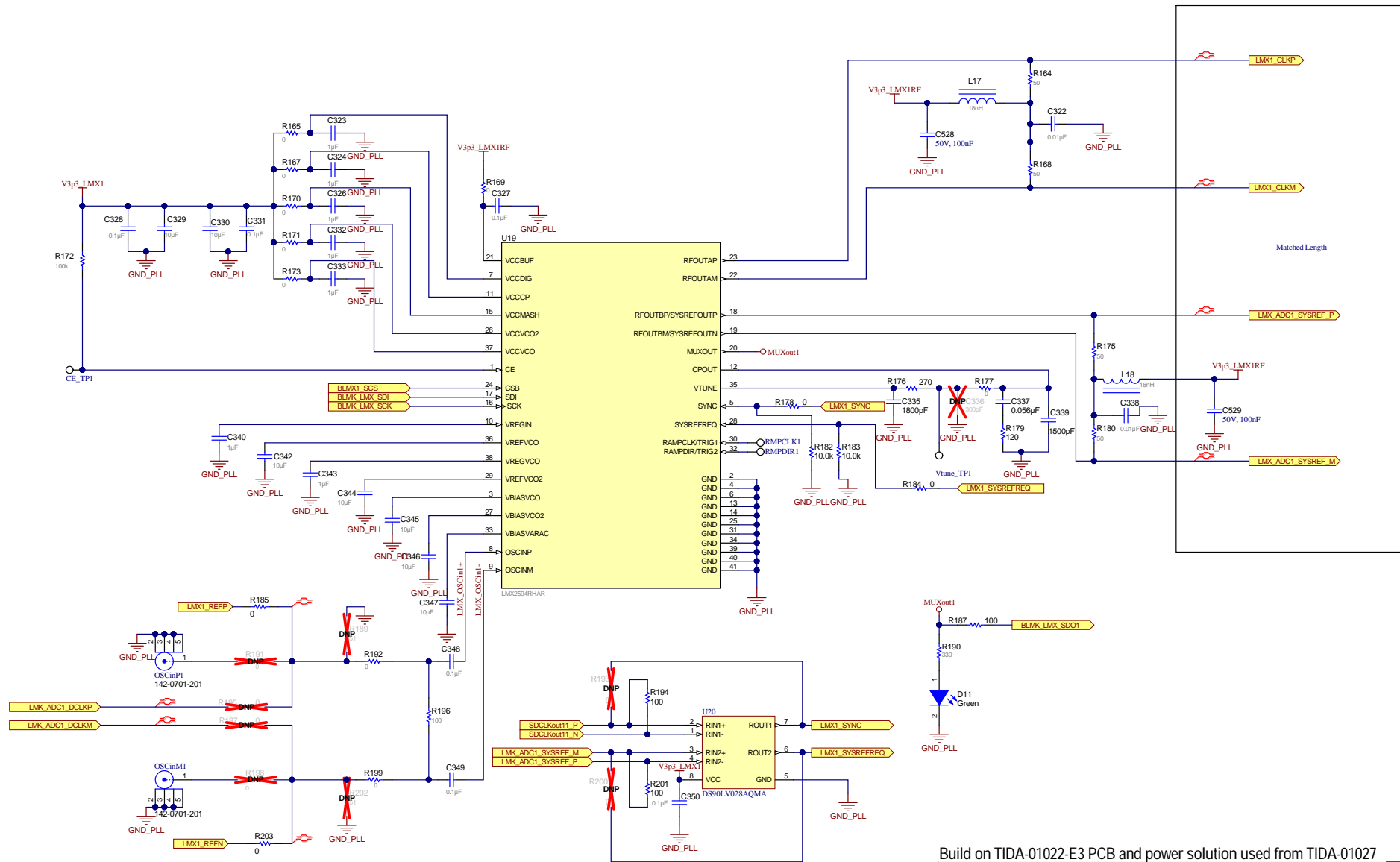
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 1/6/2018
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Number: TIDA-01028	Rev: E3	Sheet Title: ADC12D13200_1PWR
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A_Onboard_Pow	Sheet: 9 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_ADC12D13200_2PWR_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	




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LMX2594 -1

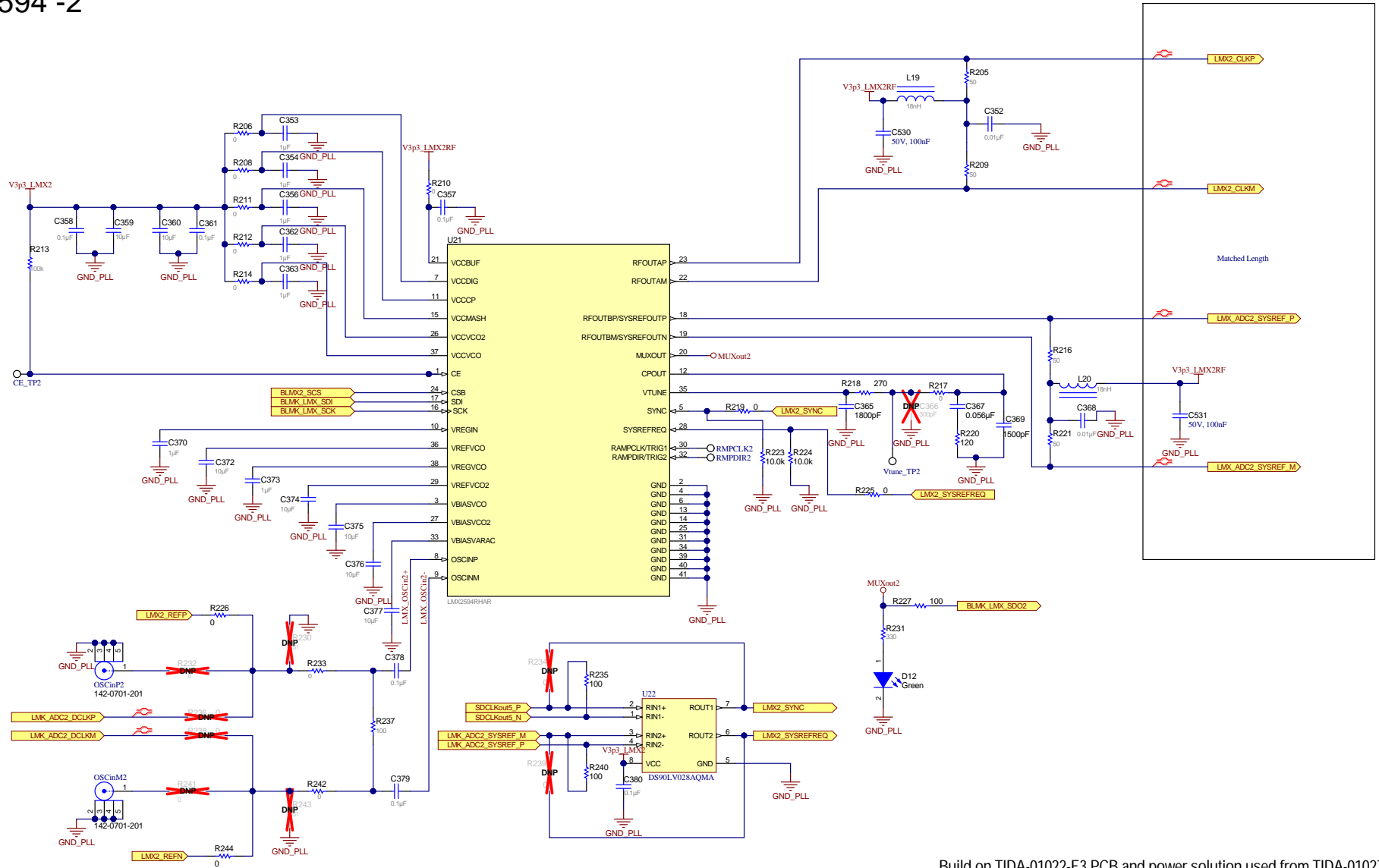


Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

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Order#:	NA	Designed for:	Public Release	Mod. Date:	2/16/2018	 TEXAS INSTRUMENTS http://www.ti.com © Texas Instruments 2017
TID:	01028	Project Title:	TIDA-01028			
Number:	TIDA-01028	Rev:	E3	Sheet Title:	LMX2594R	
SVN Rev:	Version control disabled					
Drawn By:	Avinash N					
Engineer:	Arbu Mani	File:	TIDA-01022-E3_LMX2594R_1.SchDoc	Size:	B	
			http://www.ti.com/support			

LMX2594 -2



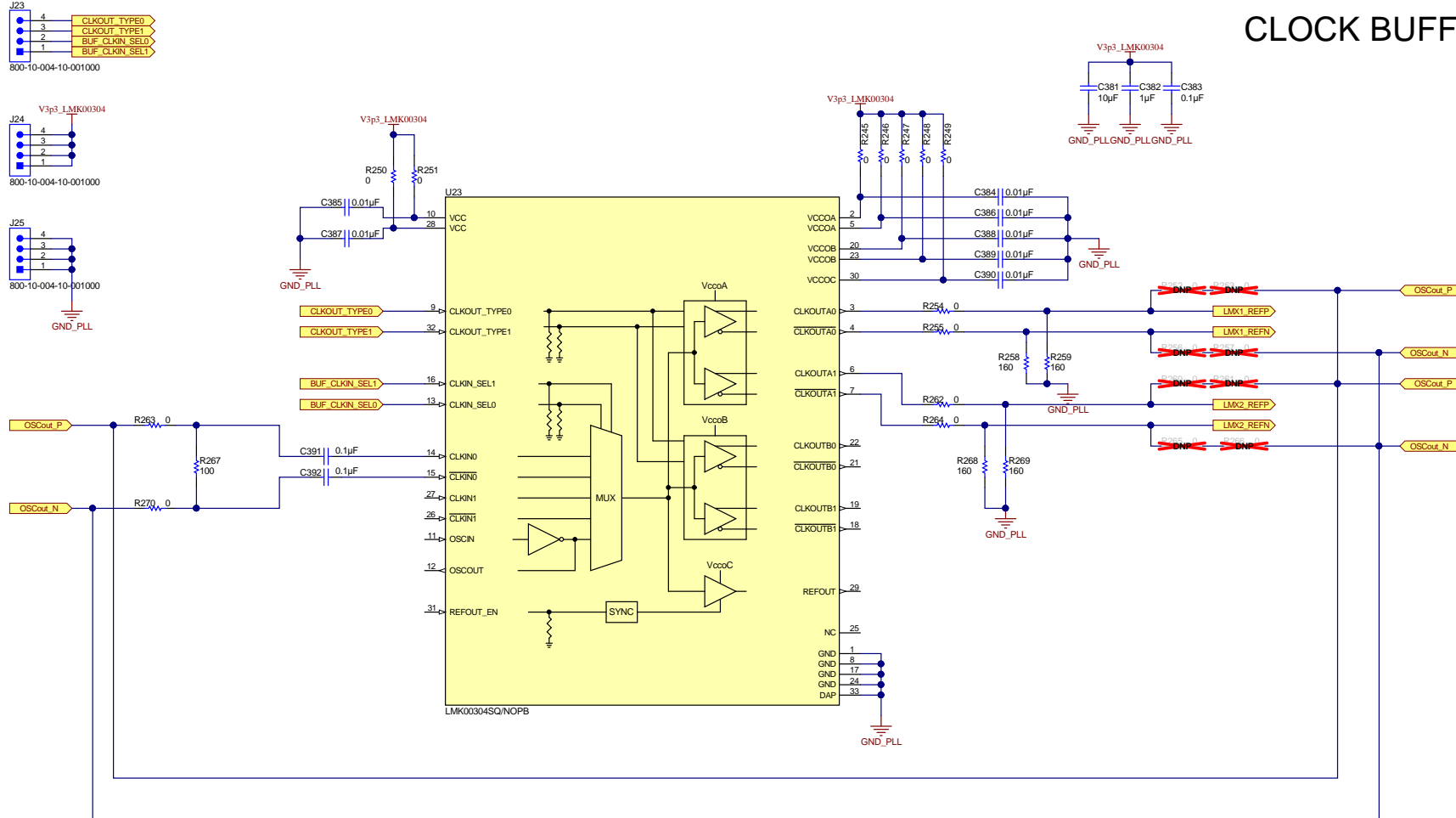
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 2/16/2018
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Number: TIDA-01028	Rev: E3	Sheet Title: LMX2594R
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A Onboard Power	Sheet: 11 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_LMX2594R_2.SchDoc	Size: B
Engineer: Arbu Mani	Contact: http://www.ti.com/support	



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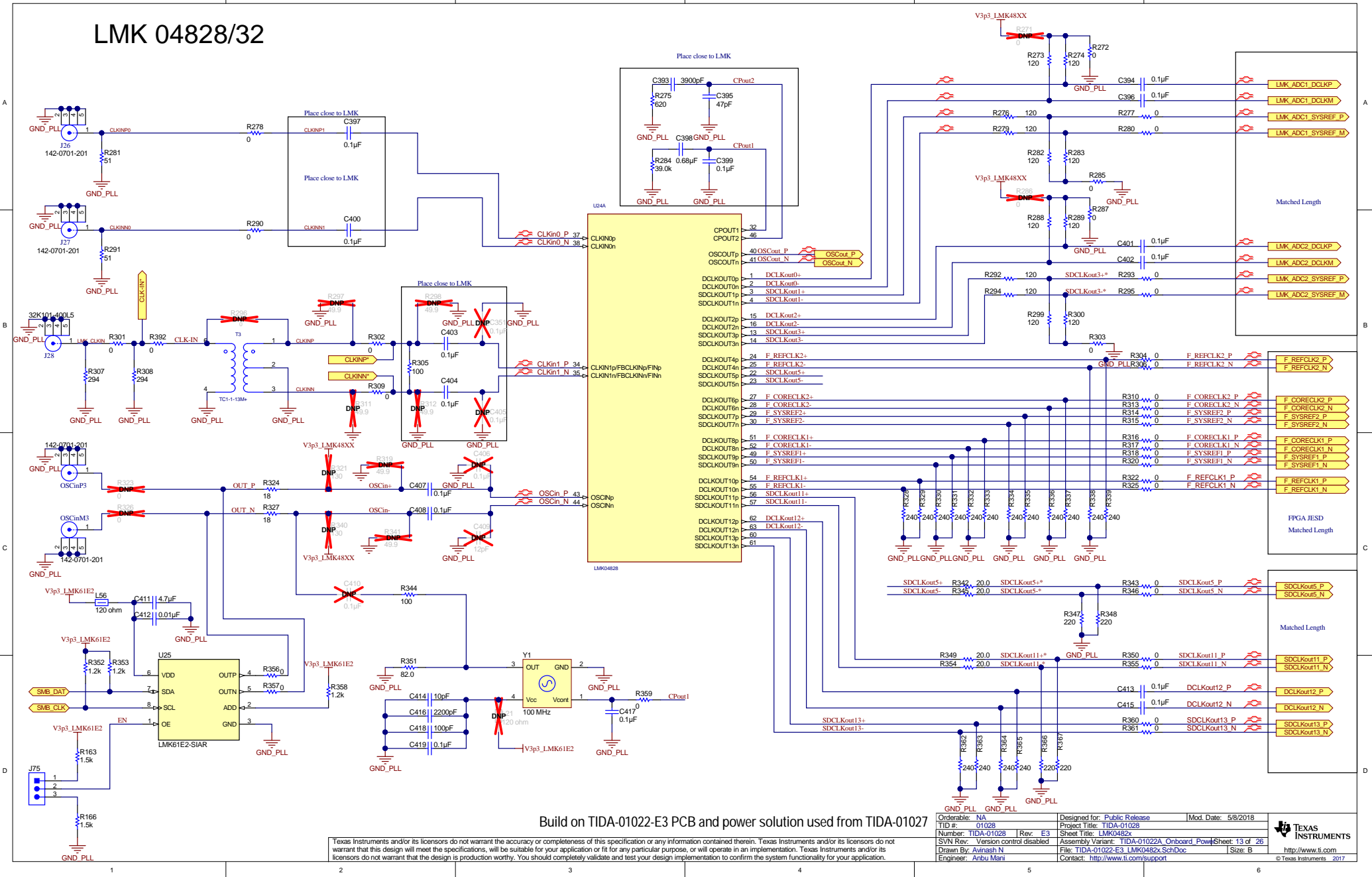
CLOCK BUFFER/MUX



Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 2/15/2018
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Number: TIDA-01028 Rev: E3	Sheet Title: LMK00304 Buffer	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A Onboard Power	Sheet: 12 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_LMK00304_Buffer_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

LMK 04828/32



Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

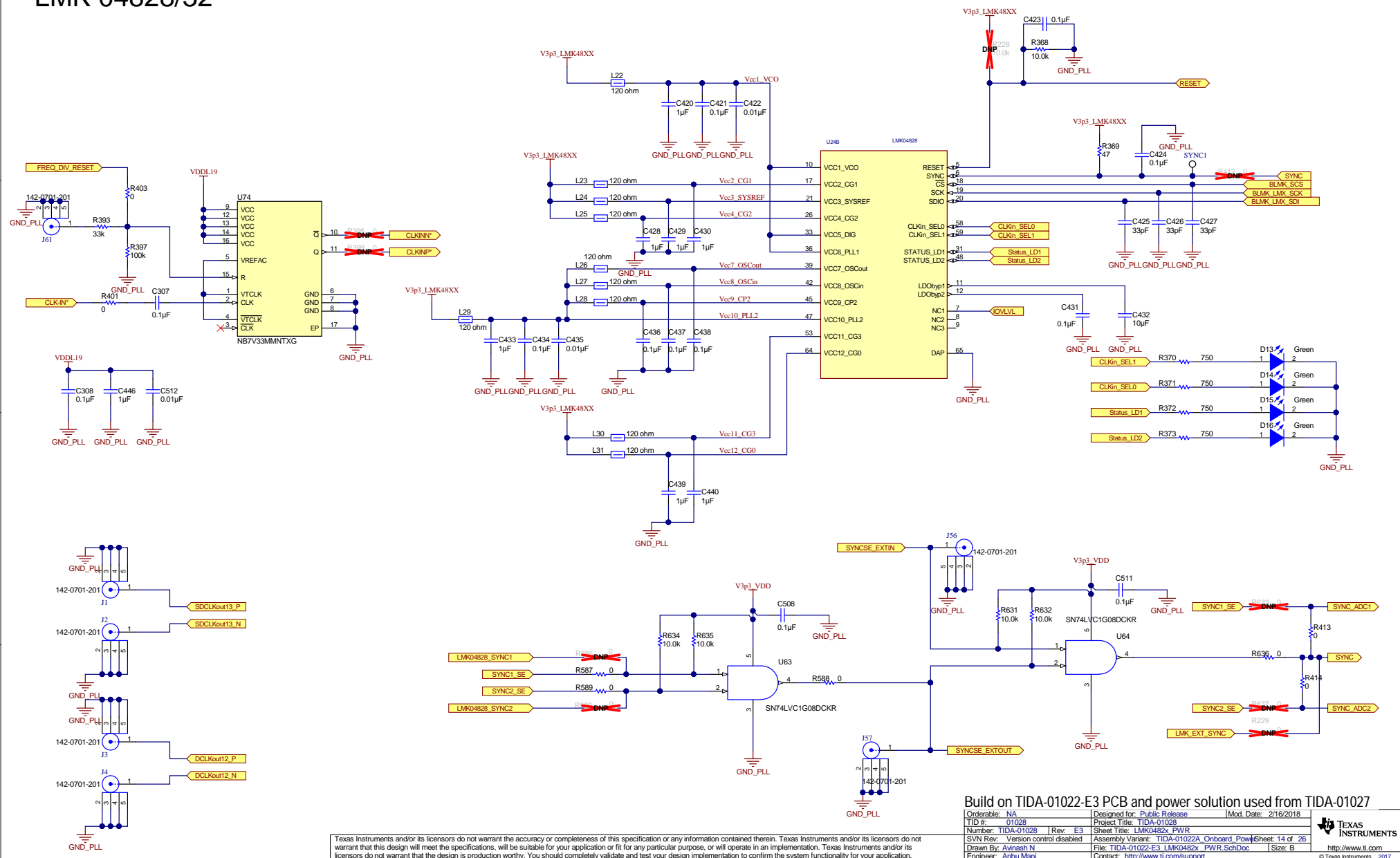
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Orderable: NA	Designed for: Public Release	Mod. Date: 5/8/2018
TID #: 01028	Project Title: TIDA-01028	
Number: TIDA-01028 Rev: E3	Sheet Title: LMK0482x	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A_Onboard_Pow	Sheet: 13 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_LMK0482x_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	



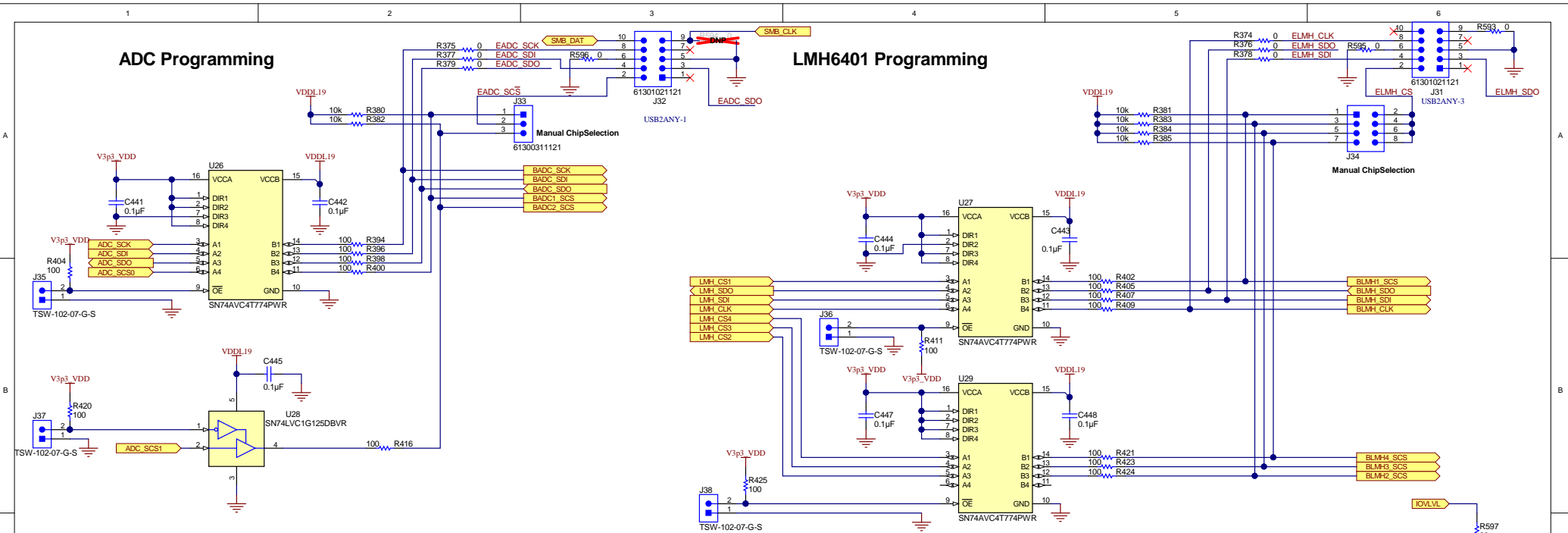
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LMK 04828/32



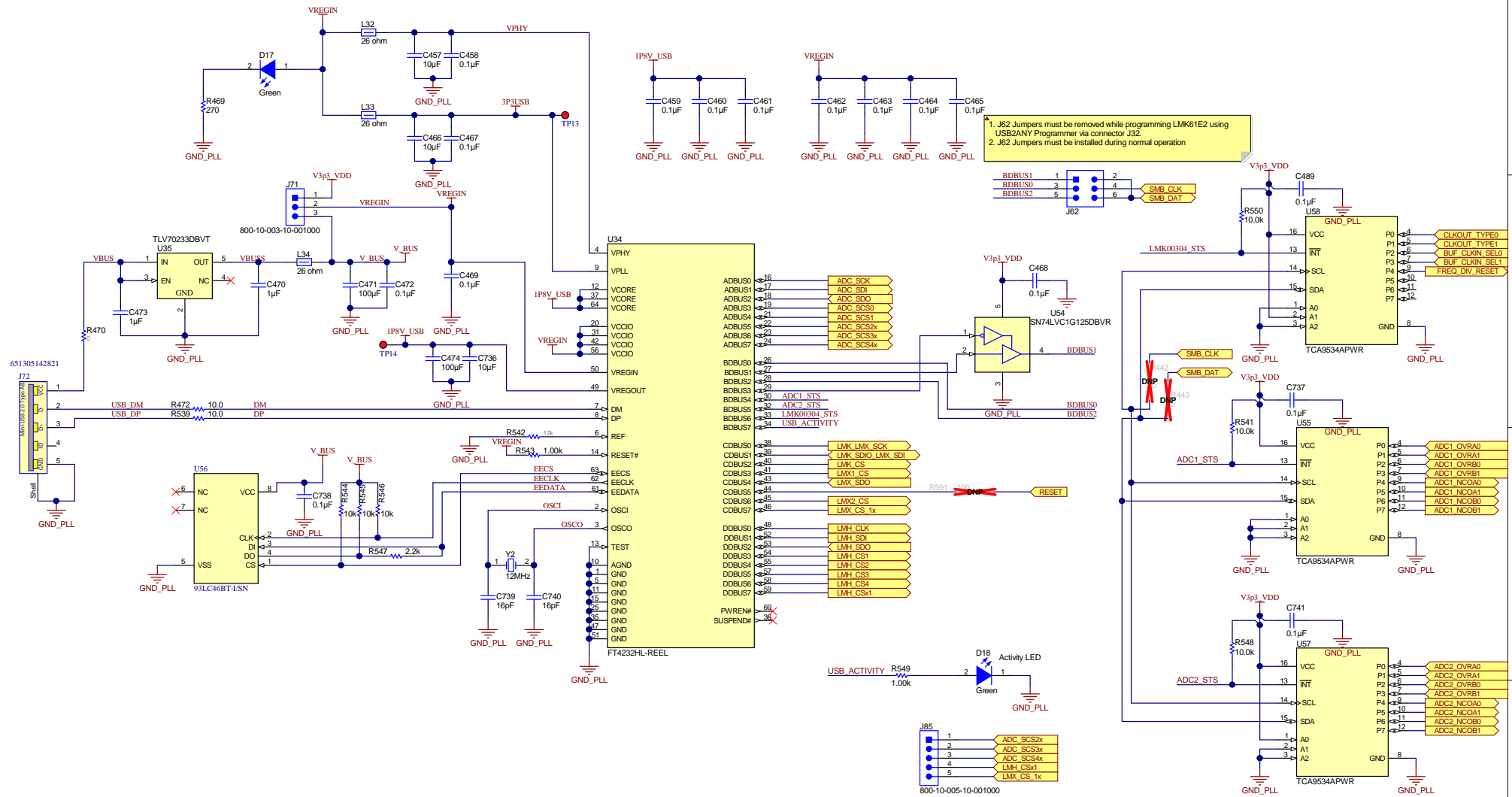
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 2/16/2018	 TEXAS INSTRUMENTS http://www.ti.com © Texas Instruments 2017
TID #: 01028	Project Title: TIDA-01028		
Number: TIDA-01028	Rev: E3	Sheet Title: LMK0482X PWR	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A Onboard Power	Sheet: 14 of 26	
Drawn by: Avinash N	File: TIDA-01022-E3 LMK0482X_PWR SchDoc	Size: B	
Engineer: Anbu Mani	Contact: http://www.ti.com/support		



Orderable: NA	Designed for: Public Release	Mod. Date: 2/16/2018	 TEXAS INSTRUMENTS http://www.ti.com © Texas Instruments 2017
TID #: 01028	Project Title: TIDA-01028		
Number: TIDA-01028	Rev. E3	Sheet Title: Programming for ADC_LMK_LMX	
SVN Rev: Version control disabled		Assembly Variant: TIDA-01022A Onboard Power	
Drawn by: Avnash N	File: TIDA-01022-E3 Programming for ADC_LMK_LMX	Sheet: 15 of 26	
Engineer: Anbu Mani	Contact: http://www.ti.com/support		

USB to SPI Interface



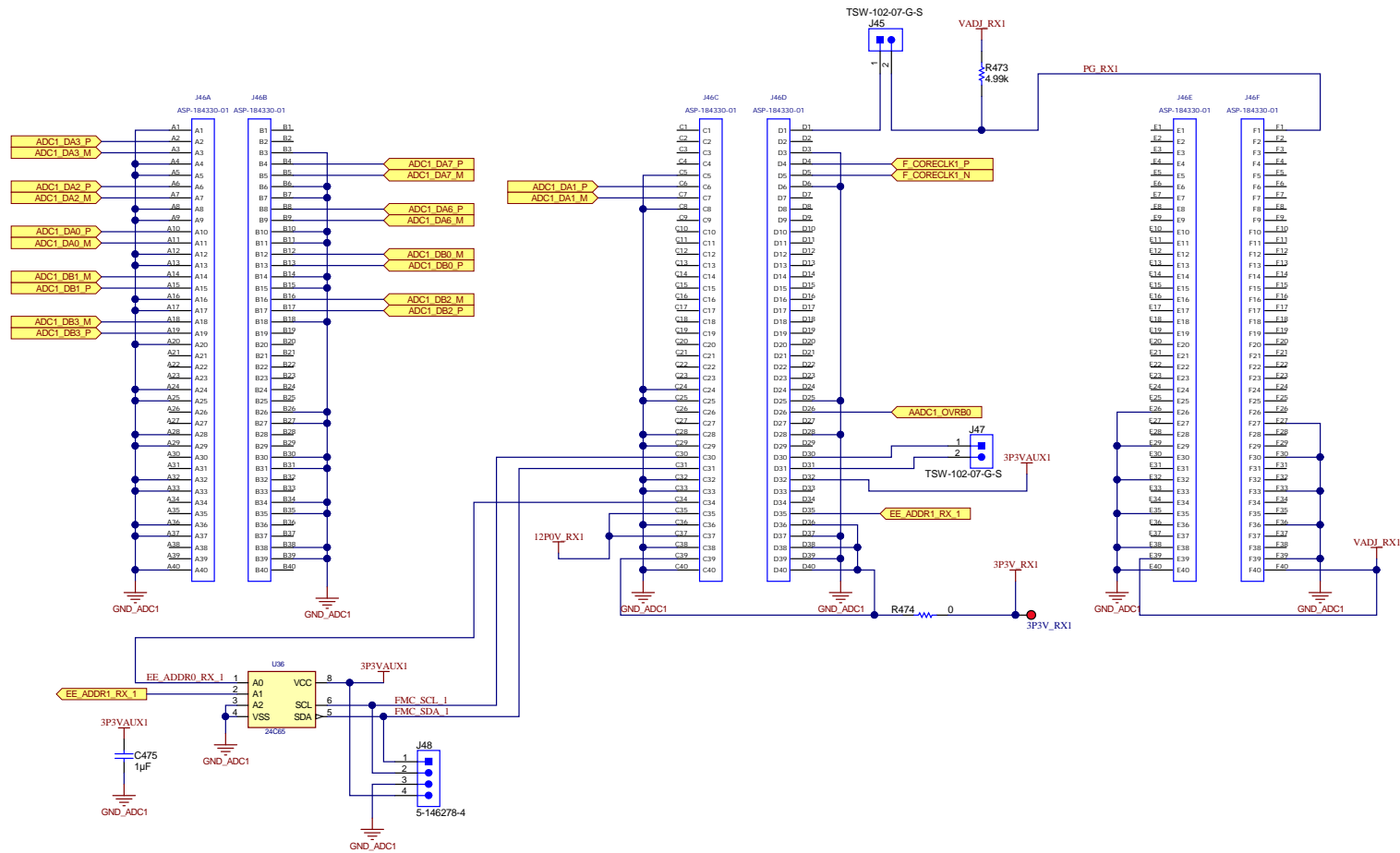
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 2/16/2018
TID #: 01028	Project Title: TIDA-01028	
Number: TIDA-01028	Rev. E3	Sheet Title: USB
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A Onboard Power	Sheet: 16 of 26
Drawn By: Avinash N	File: TIDA-01022-E3 USB_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	



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ADC1 FMC+_1 Connector



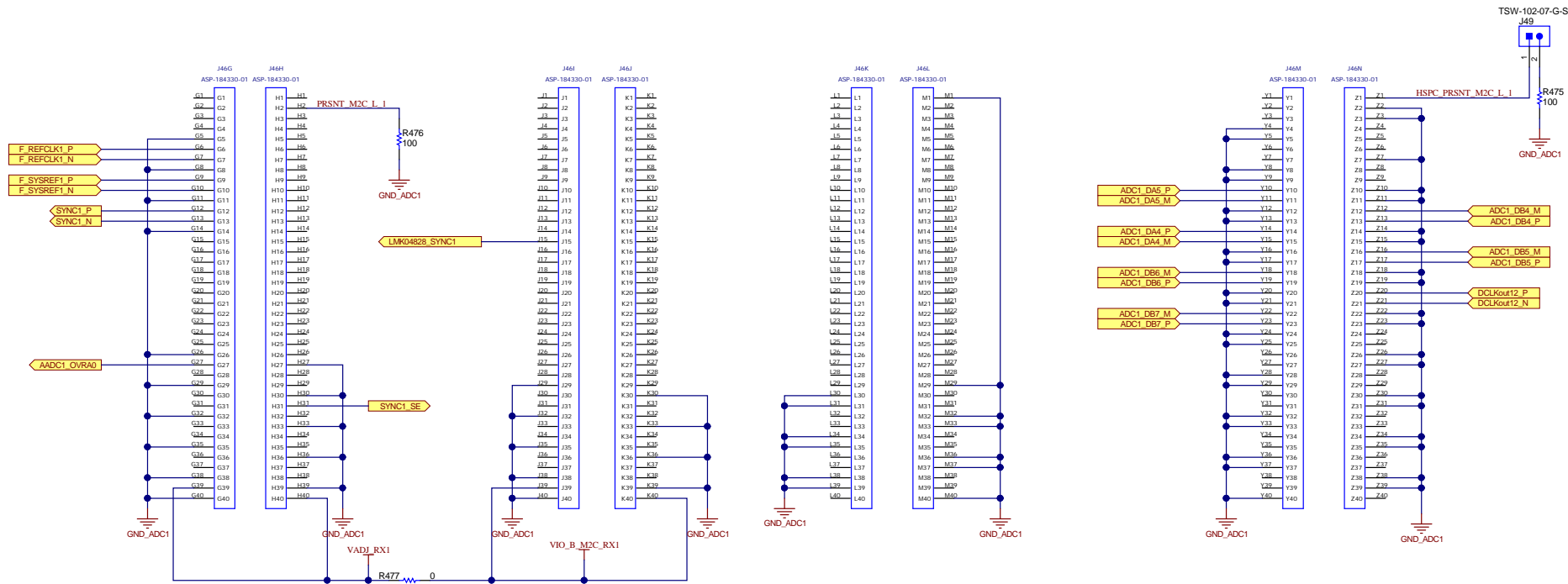
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 2/16/2018
TID #: 01028	Project Title: TIDA-01028	
Number: TIDA-01028	Rev: E3	Sheet Title: FMC+CONN1
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A_0nboard_Pow	Sheet: 17 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_FMC+CONN1_1.SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	



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ADC1 FMC+_1 Connector



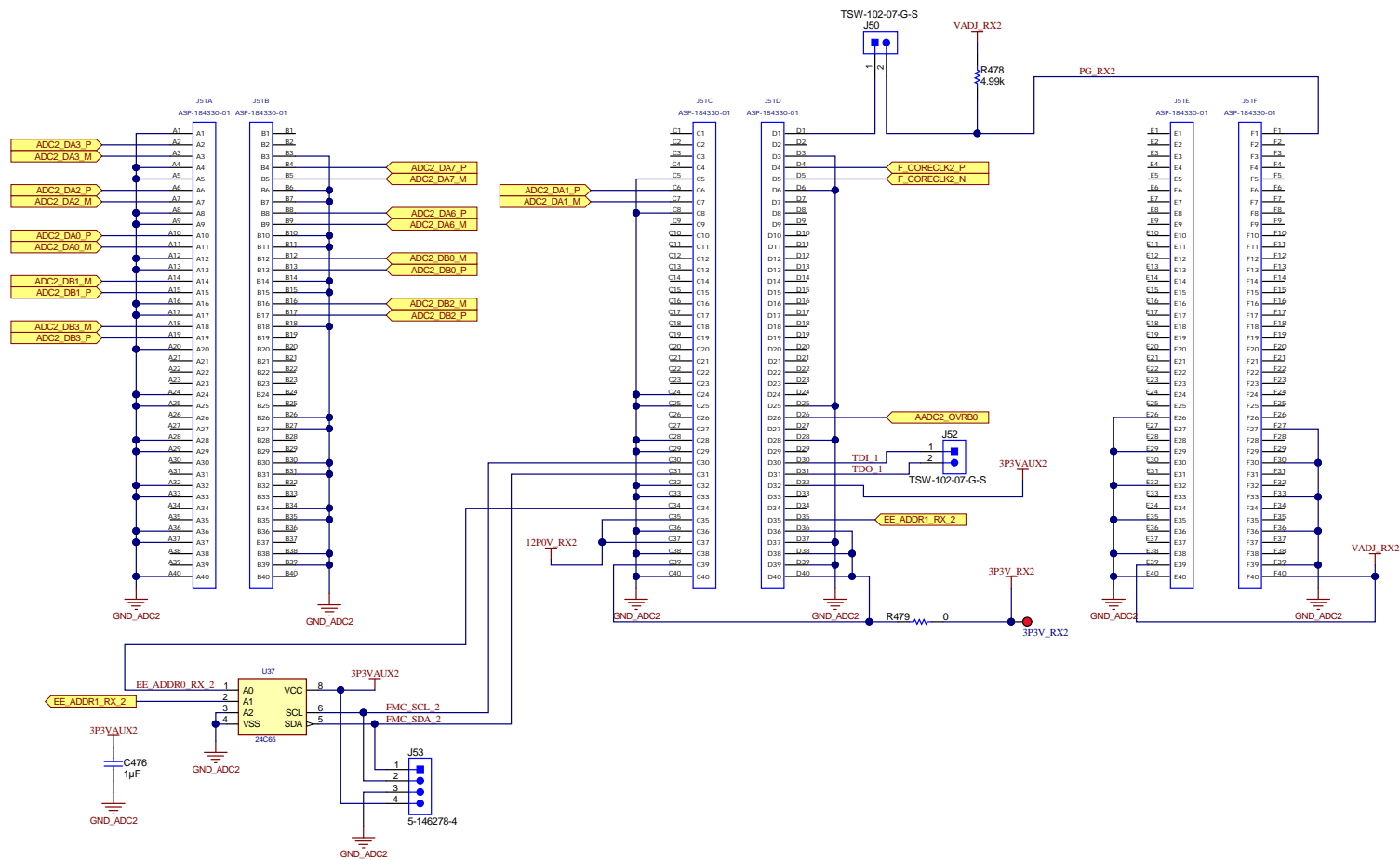
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

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Number: TIDA-01028	Rev: E3	Sheet Title: FMC+CONN1
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A_Onboard_Pow	Sheet: 18 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_FMC+CONN1_2.SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	




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ADC1 FMC+_2 Connector



Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 2/16/2018
TID #: 01028	Project Title: TIDA-01028	
Number: TIDA-01028 [Rev. E3]	Sheet Title: FMC+CONN2	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A Onboard Power	Sheet: 19 of 26
Drawn by: Avinash N	File: TIDA-01022-E3_FMC+CONN2_1.SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

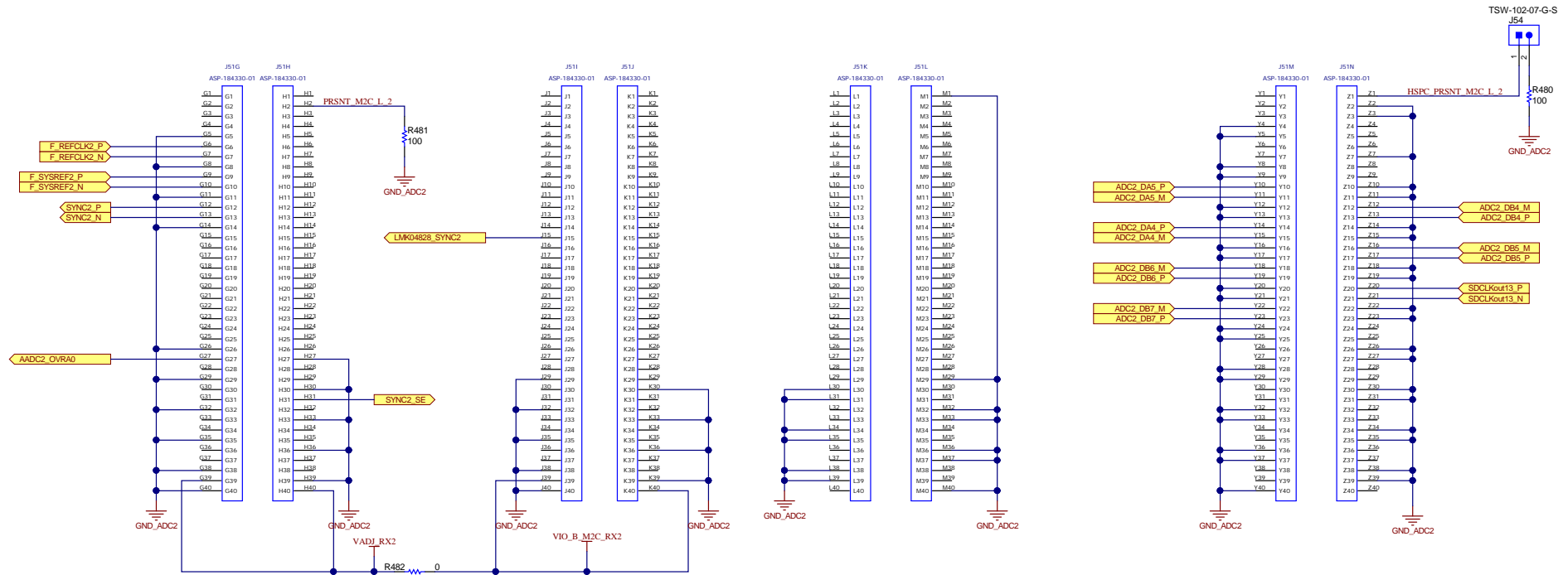


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ADC1 FMC+_2 Connector



Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

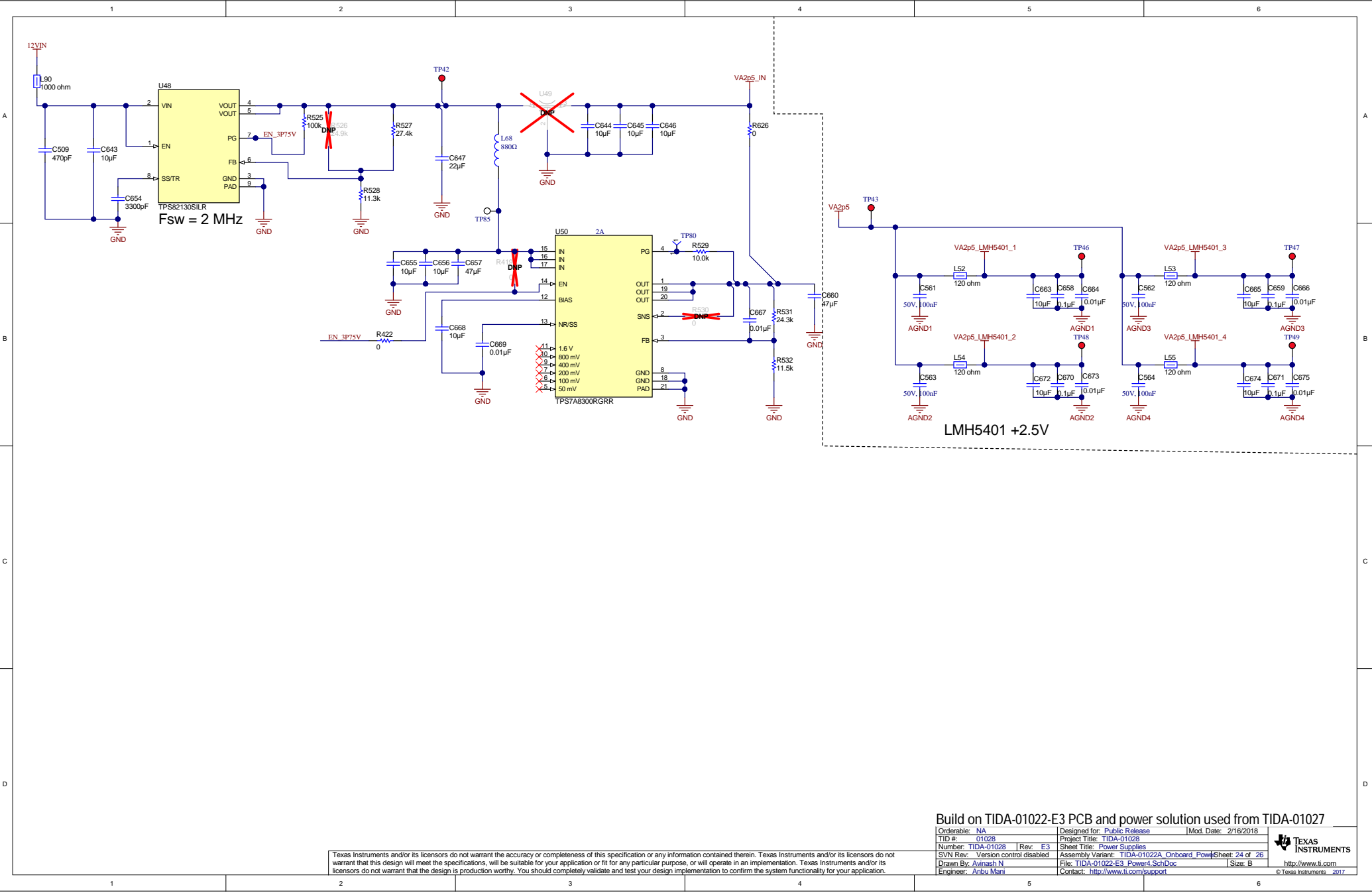
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Number: TIDA-01028 [Rev. E3]	Sheet Title: FMC+CONN2	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A Onboard Power	Sheet: 20 of 26
Drawn by: Avinash N	File: TIDA-01022-E3_FMC+CONN2_2_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	



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Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 2/16/2018
TID #: 01028	Project Title: TIDA-01028	
Number: TIDA-01028	Rev: E3	Sheet Title: Power Supplies
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A_Onboard_Pow	Sheet: 24 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_Power4_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	



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