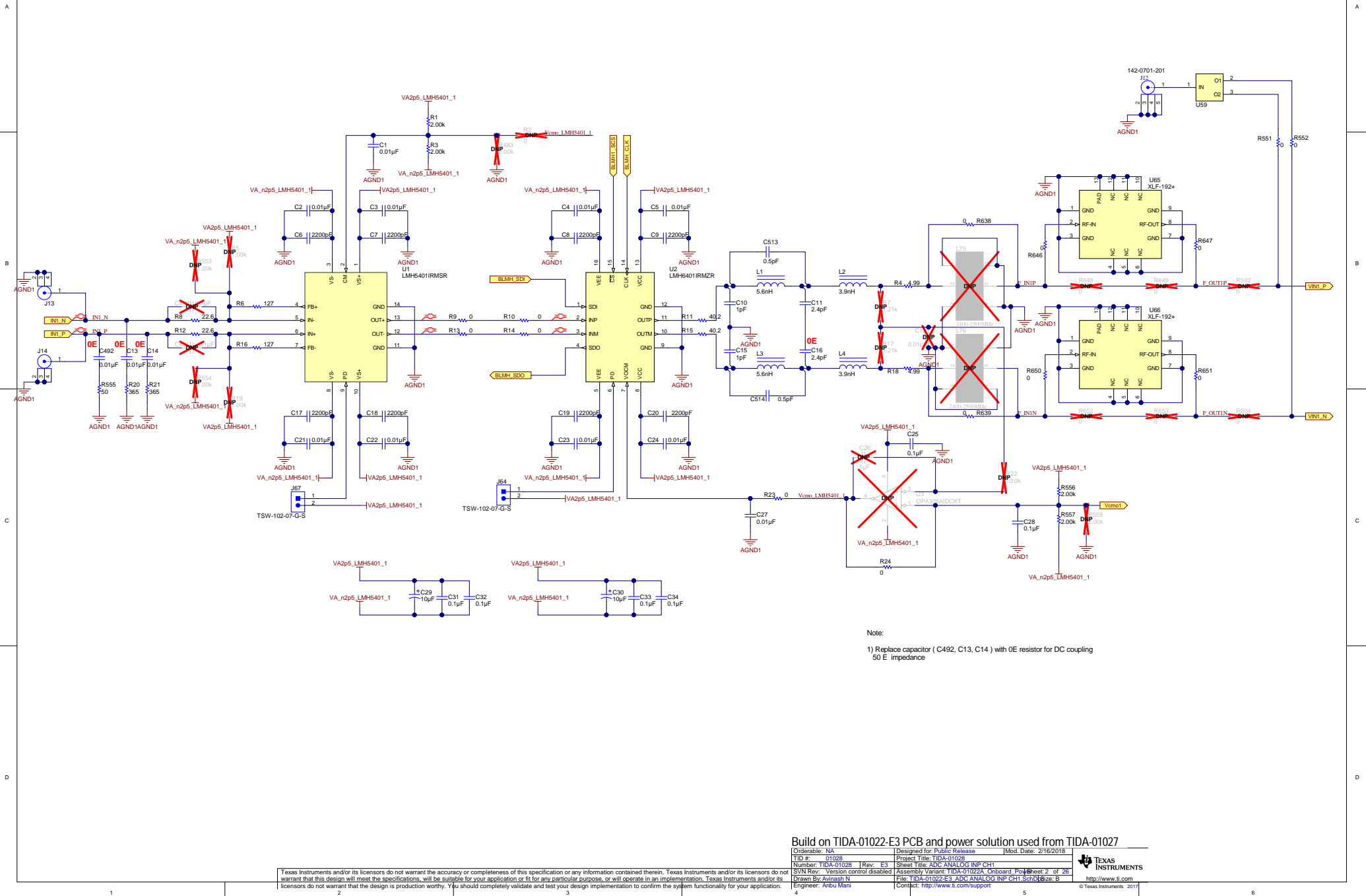


Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

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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



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 ANALOG INP CH1
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A Onboard PCB	Sheet: 2 of 26
Drawn By: Avinash N	File: TIDA-01022-E3 ADC ANALOG INP CH1 Sch.Dwg	Size: B
Engineer: Arbu Mala	Contact: http://www.ti.com/support	



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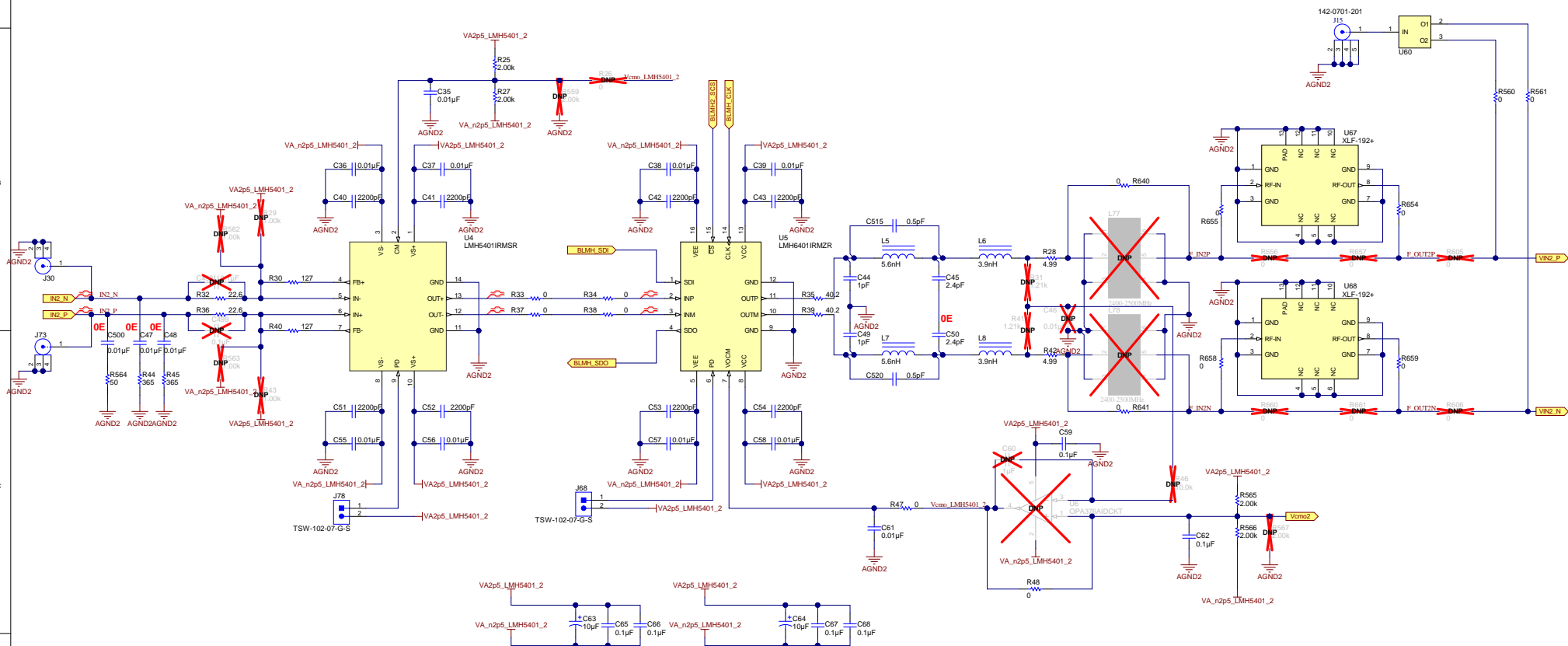
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1	2	3	4	5	6
A					A
B					B
C					C
D					D
1	2	3	4	5	6

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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 Ω impedance

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

Build on HDA-0102Z-E3 PCB and power. Solution used from HDA-0102Z

Order: NA	Designed for: Public Release	[Mod. Date: 2/16/2018]
Part: 01028	Project Title: HDA-01028	
Number: HDA-01028	Sheet Title: ADC12J0000 CH2	
SVN Rev: Version control disabled	Assembly Variant: HDA-01028 Onboard Power	Sheet: 3 of 26
Drawn by: Avinash N	File: HDA-0102Z-E3_ADC ANALOG INP CH2 Sch.Dwg	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	www.ti.com

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ANALOG INPUT CH-3

A

B

C

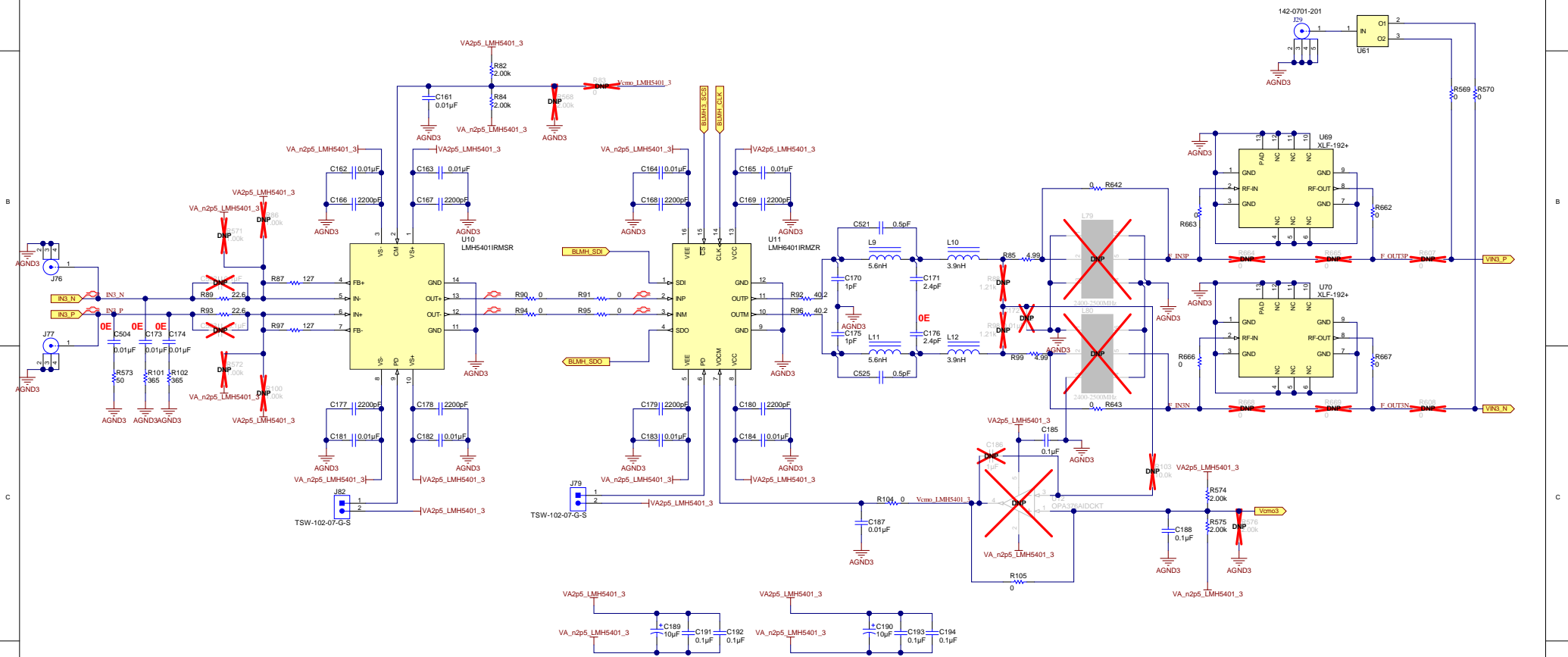
D

A

B

C

D



Note:

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

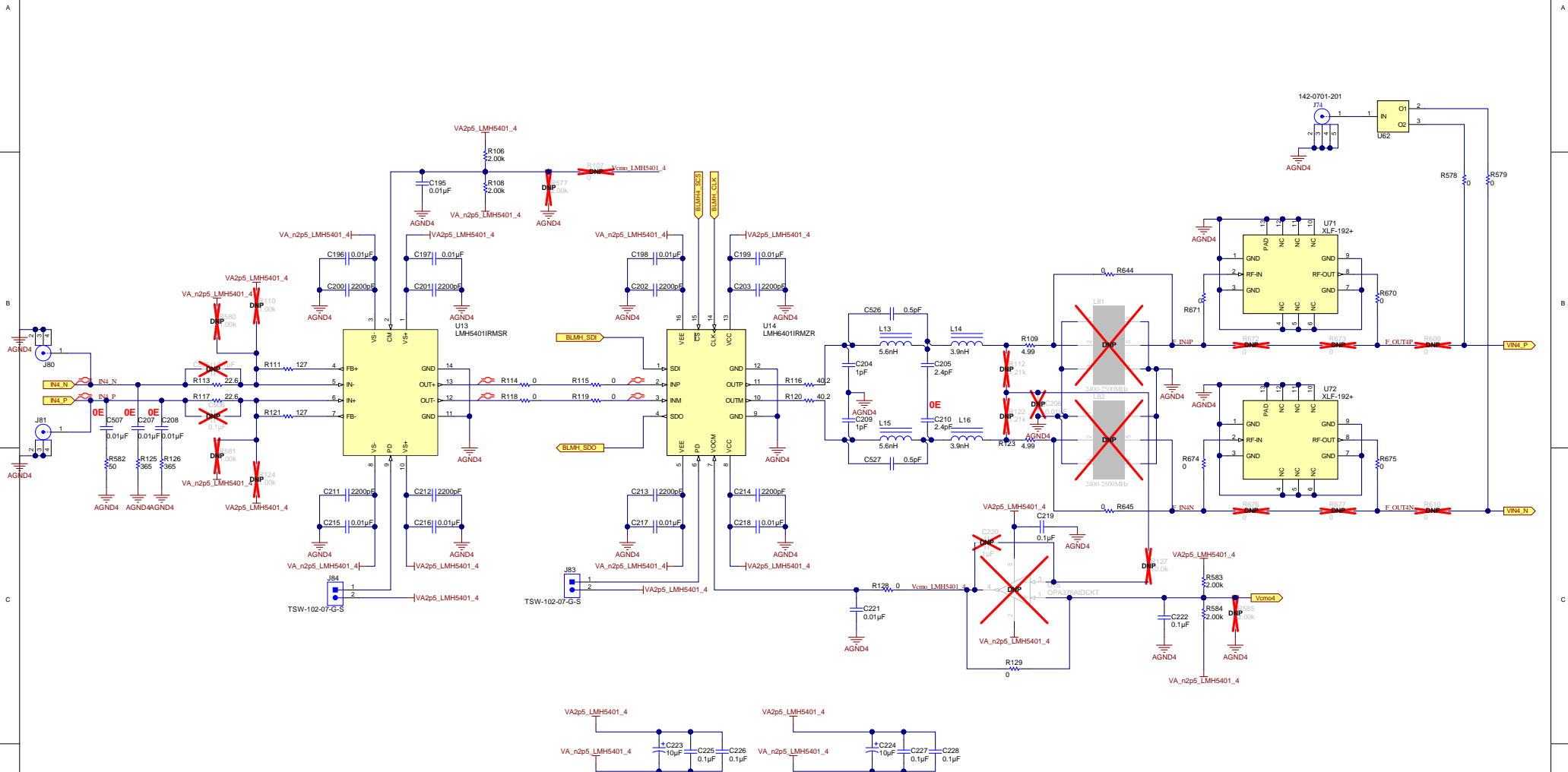
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

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-170-0000 CH3
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A Onboard PCB	Sheet: 4 of 26
Drawn By: Avinash N	File: TIDA-01022-E3 ADC ANALOG INP CH3 Sch.Dwg	Size: B
Engineer: Arbu Mala	Contact: http://www.ti.com/support	



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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

Build on HDA-01022-E3 PCB and power/solution used from HDA-01027
 Date: NA Designed for: Public Release [Mod date: 2/16/2018]
 ID #: 01028 Project Title: HDA-01028
 Number: HDA-01028 Rev: E3 Serial Title: ADC12DJ000 CH4
 SVN Rev: Version control disabled Assembly Name: HDA-01022A Onboard Power Sheet: 5 of 26
 Drawn by: Avinash N File: HDA-01022-E3_ADC ANALOG INP CH4 Sch.Dwg Size: B
 Engineer: Anbu Mani Contact: http://www.tsc.com/support <http://www.tsc.com>
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Only the P and M's need to mature.

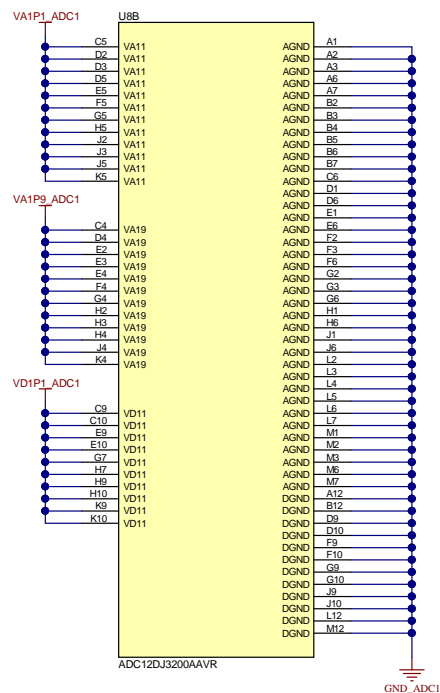


Orderable NA	Designed for: <u>Public Release</u>	Mod. Date: 2/16/2018
TID# 01028	Project Title: <u>TIDA-01028</u>	
Number: <u>TIDA-01028</u> [Rev. <u>E3</u>	Sheet Title: <u>ADC12DJoxx001</u>	
SVN Rev: Version control disabled	Assembly Variant: <u>TIDA-01022A Onboard Power</u>	Sheet 6 of 26
Drawn By: <u>Avinash N</u>	File: <u>TIDA-01022-E3 ADC12DJoxx001_1.SchDoc</u>	Size: B
Engineer: <u>Anbu Mani</u>	Contact: <u>http://www.ti.com/support</u>	© Texas Instruments 2017



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ADC-1



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

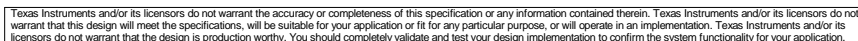
Orderable: NA	Designed for: Public Release	Mod. Date: 3/5/2019
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SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A_Onboard_Pow	Sheet: 7 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_ADC12DJ3200_1PWR_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	



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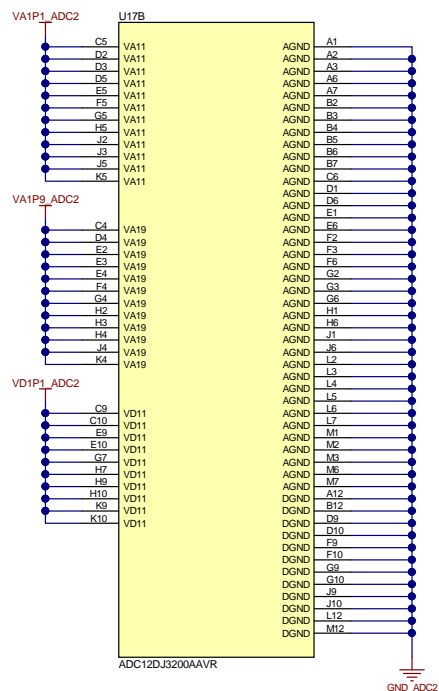
Only the P and M's need to match



Orderable: NA	Designed for: Public Release	Mod. Date: 2/16/2018
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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



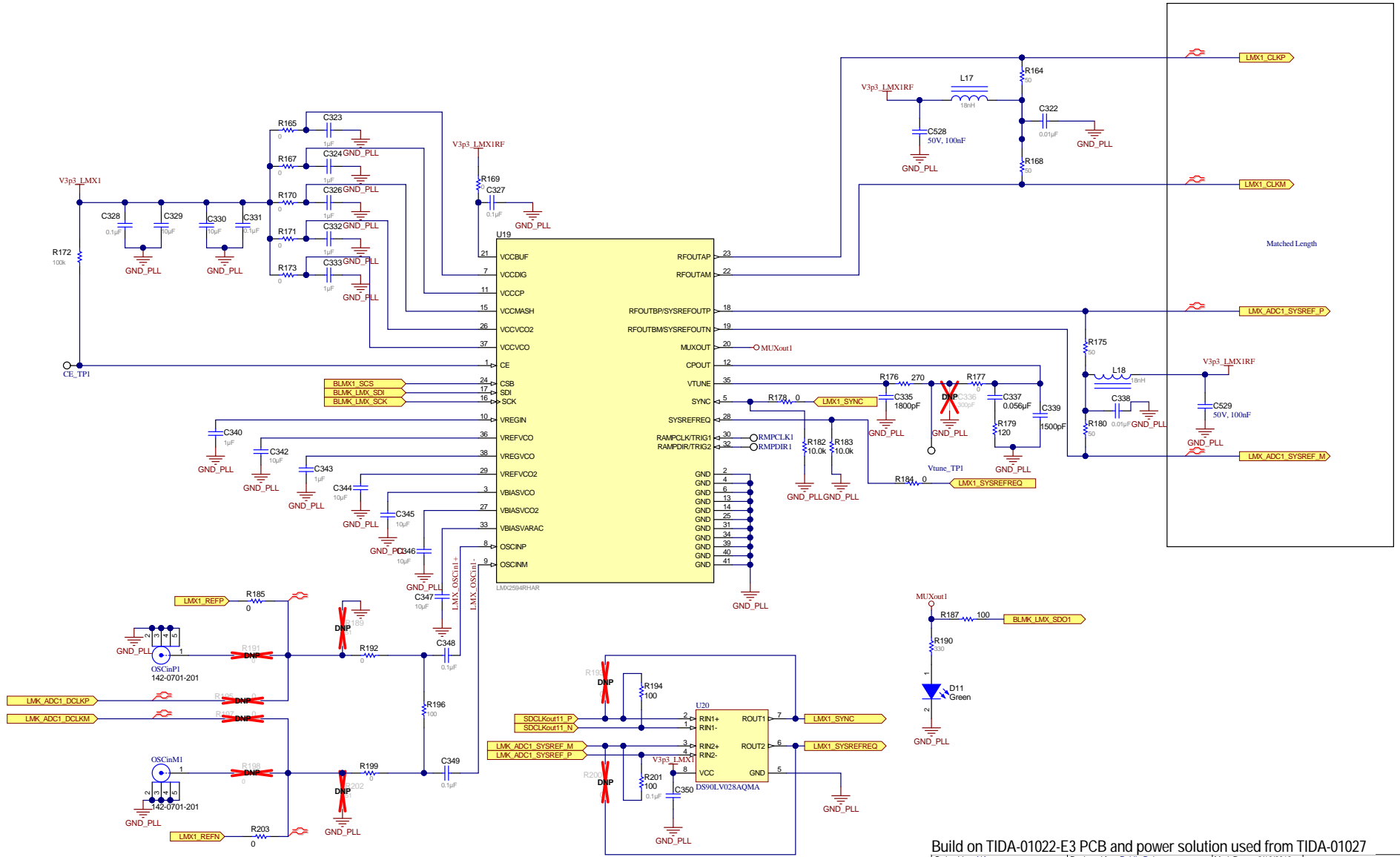
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

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 Power	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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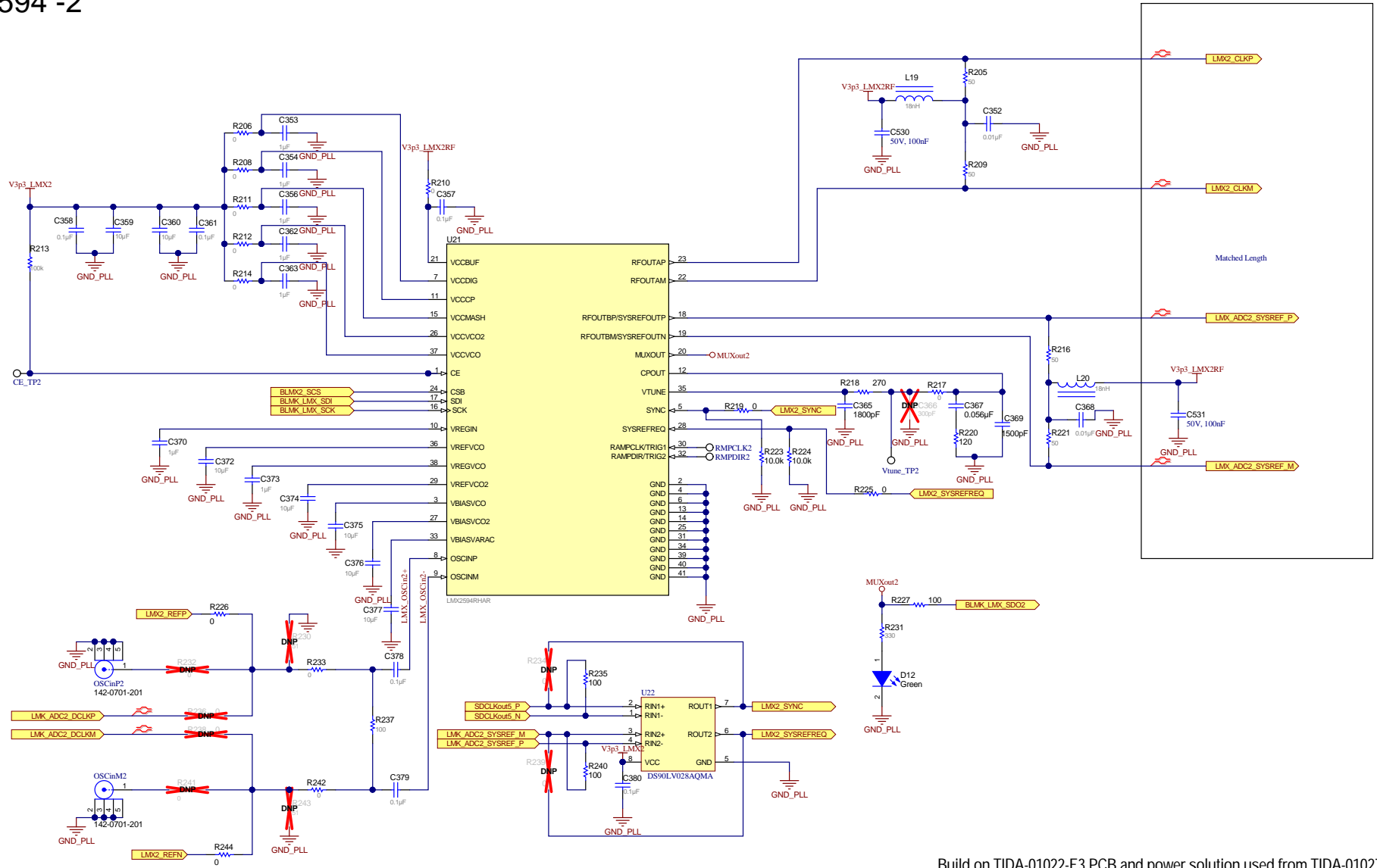
LMX2594 -1



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

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_Pow	Sheet: 10 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_LMX2594R_1.SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

LMX2594 -2



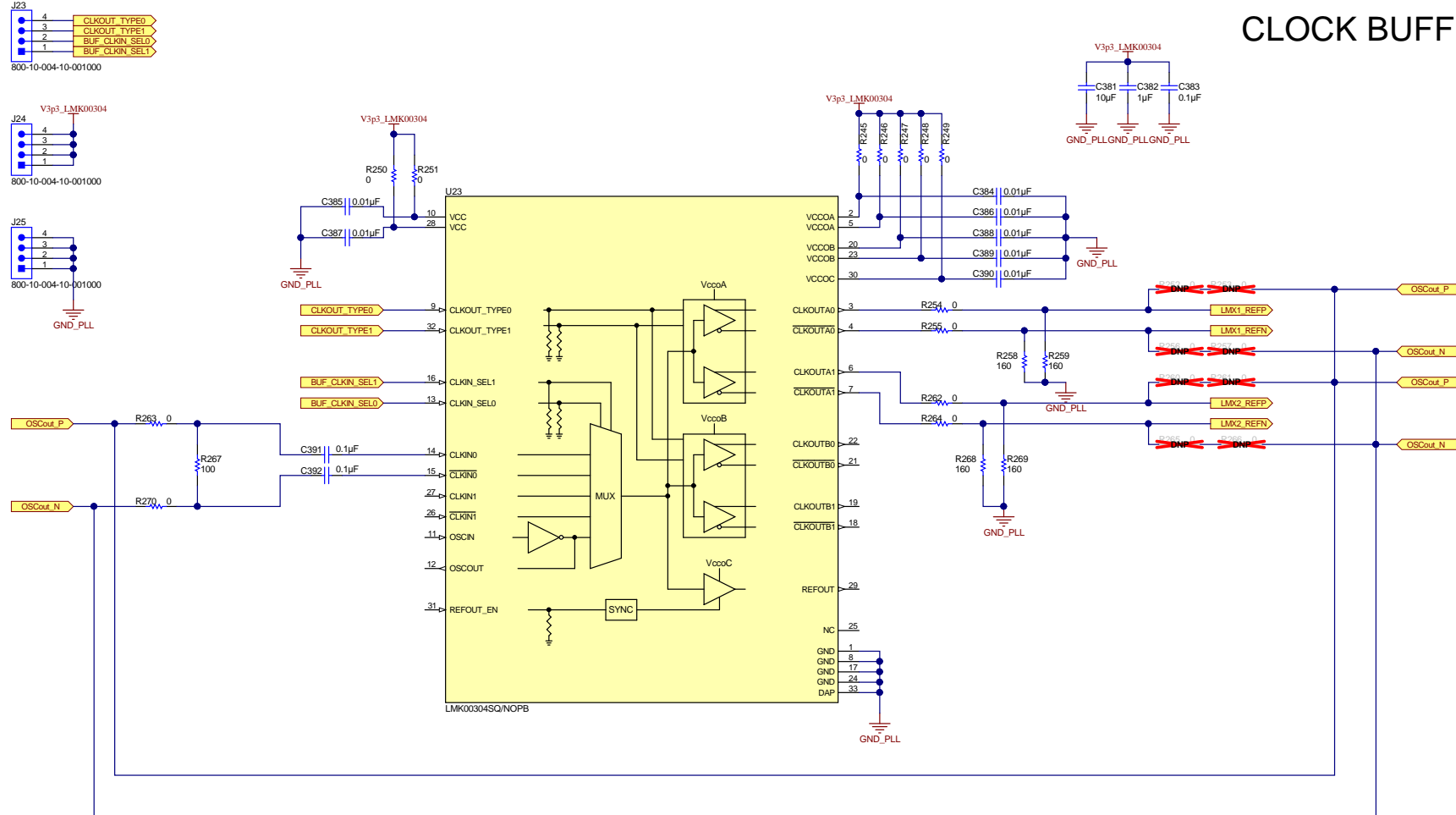
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Number: TIDA-01028	Rev: E3	Sheet Title: LMX2594R
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A Onboard Power	Sheet: 11 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_LMX2594R_2.SchDoc	Size: B
Engineer: Arbu Mani	Contact: http://www.ti.com/support	



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CLOCK BUFFER/MUX



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

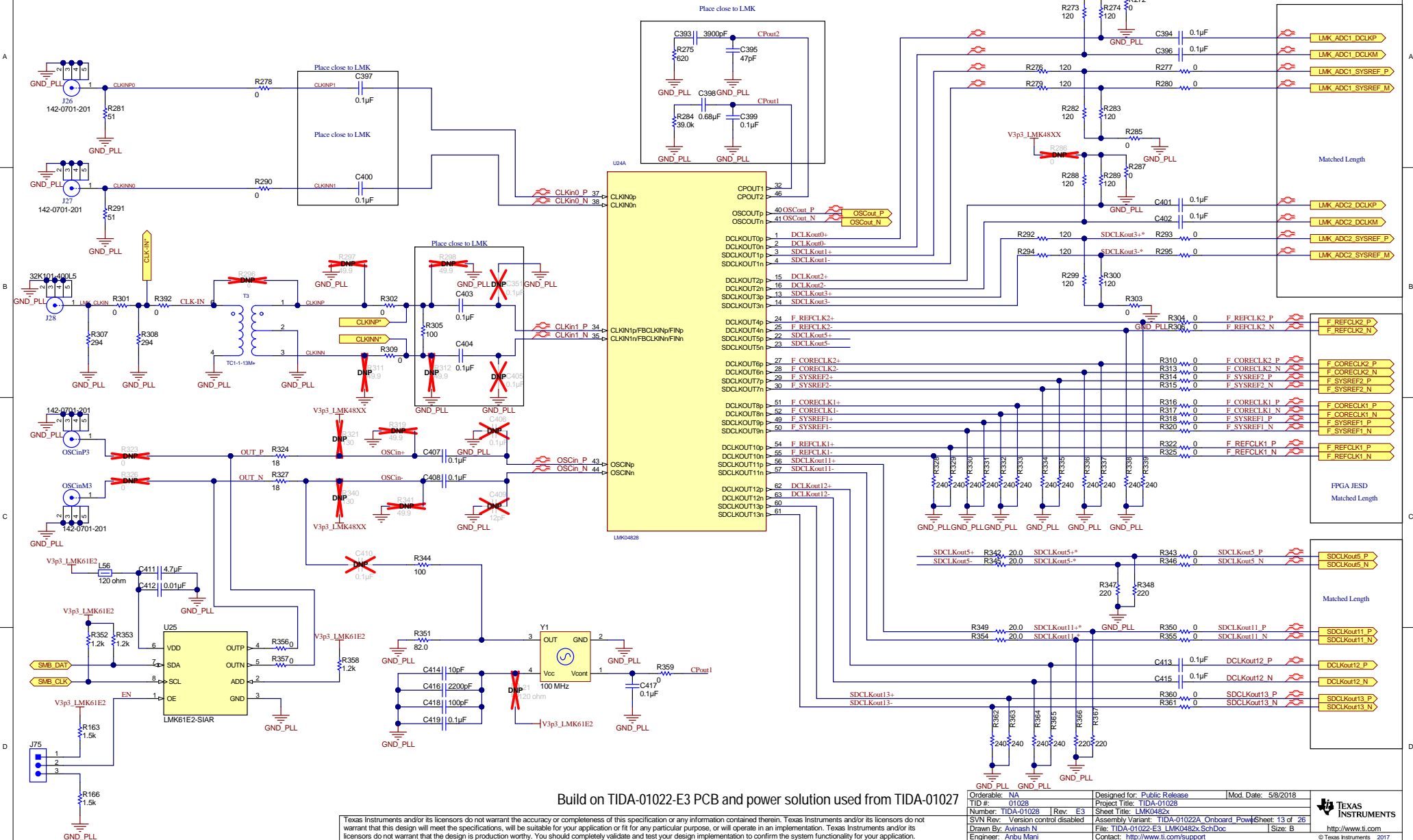
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Number: TIDA-01028	Rev: E3	Sheet Title: LMK00304 Buffer
SVN Rev.: Version control disabled		Assembly Variant: TIDA-01022A Onboard Power
Drawn by: Anvash N		File: TIDA-01022-E3_LMK00304_Buffer_SchDoc
Engineer: Anu Mani		Contact: http://www.ti.com/support
		Size: B



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LMK 04828/32

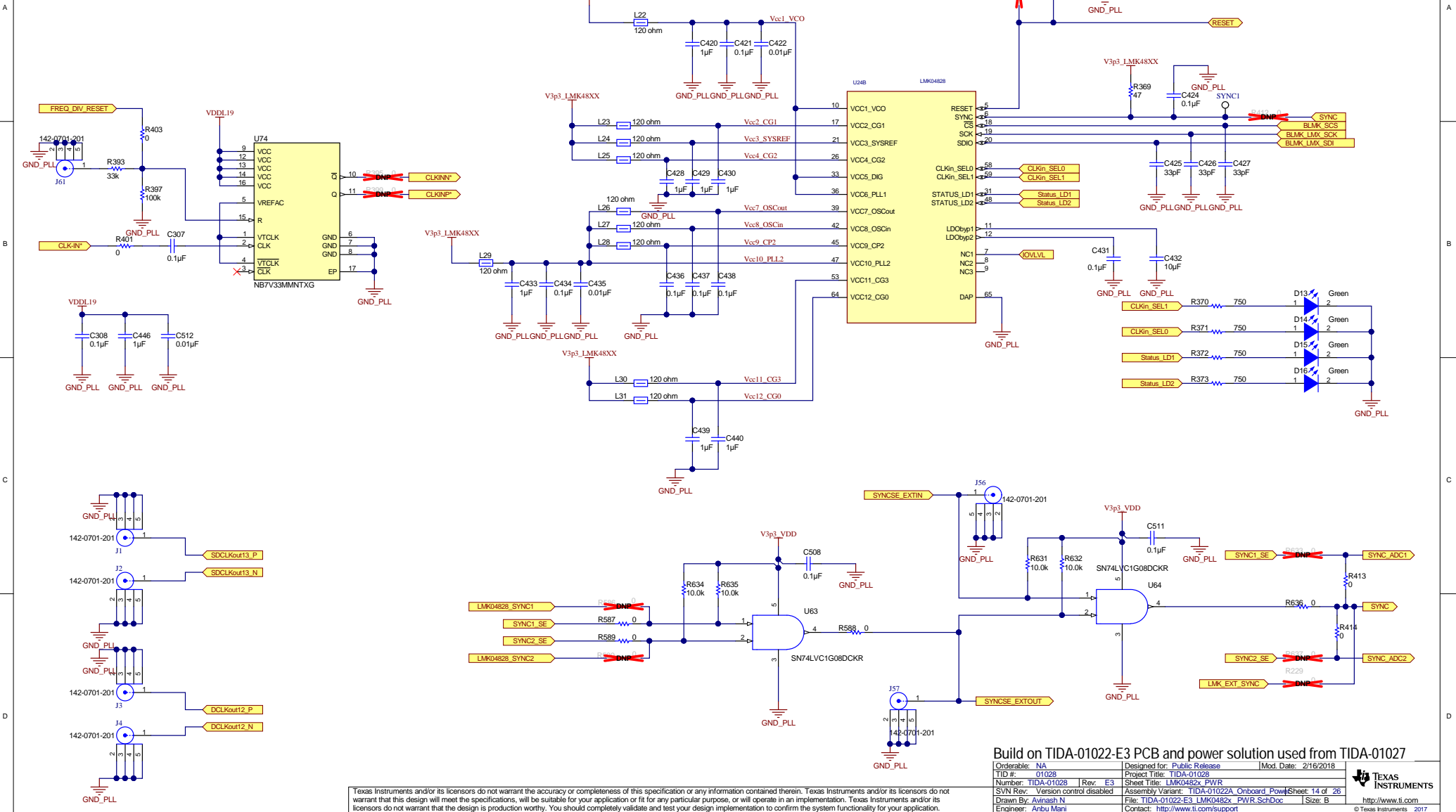


Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

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Orderable: NA	Designed for: Public Release	Mod. Date: 5/8/2018	 TEXAS INSTRUMENTS
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	http://www.ti.com © Texas Instruments 2017	

LMK 04828/32

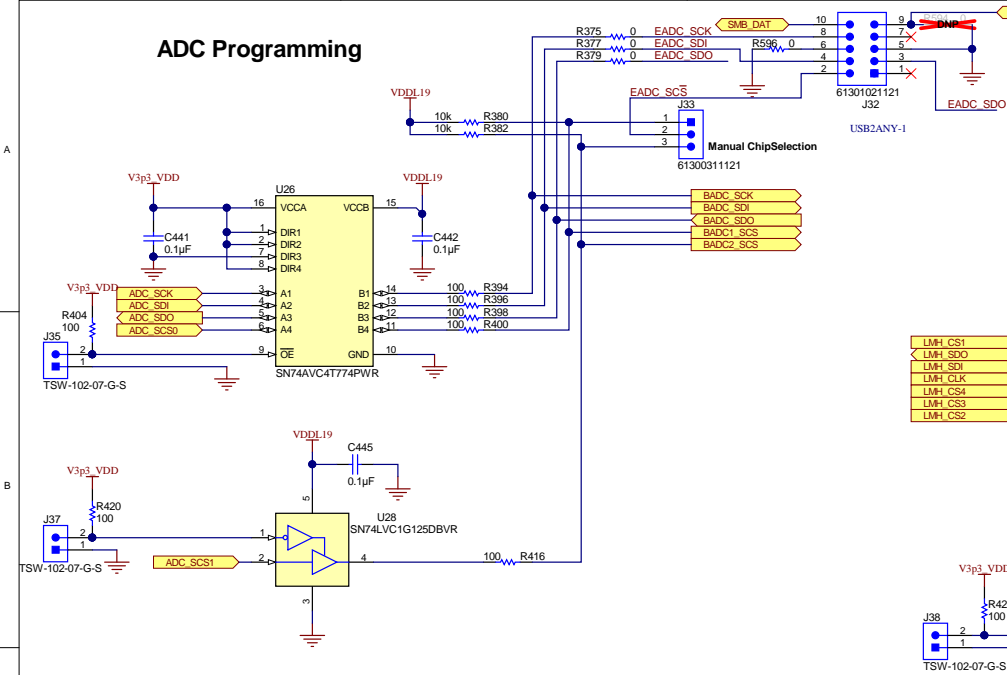


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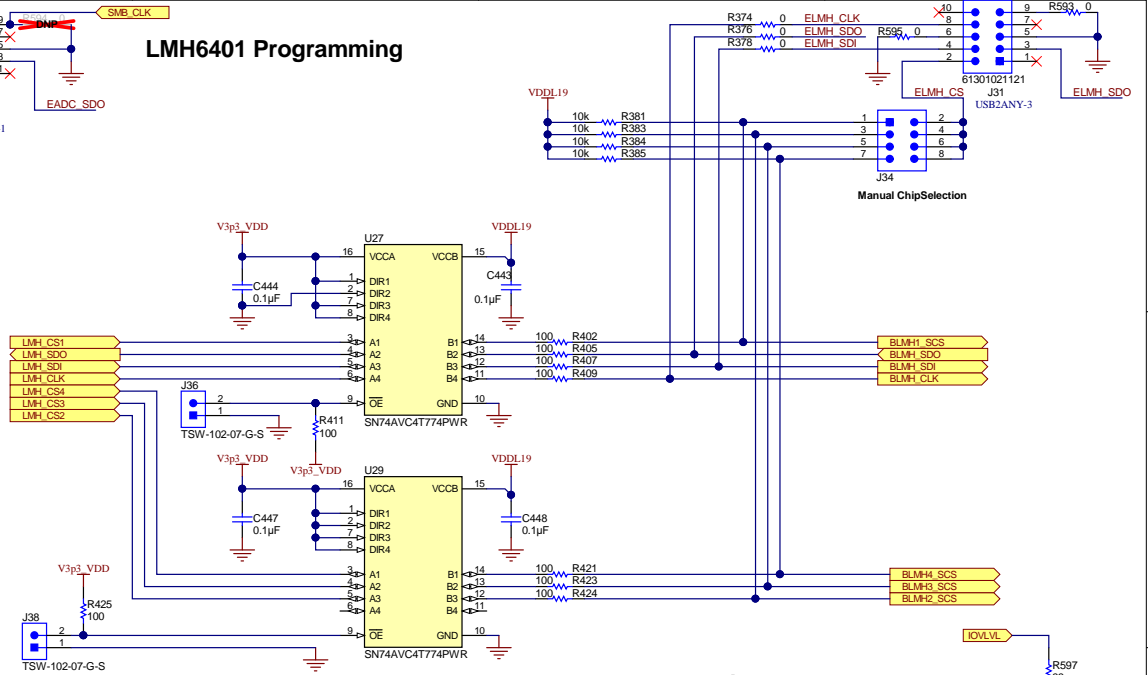
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027			
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Drawn By: Avinash N	File: TIDA-01022-E3_LMK0482x_PWR.SchDoc	Size: B	
Engineer: Anbu Mani	Contact: http://www.ti.com/support		



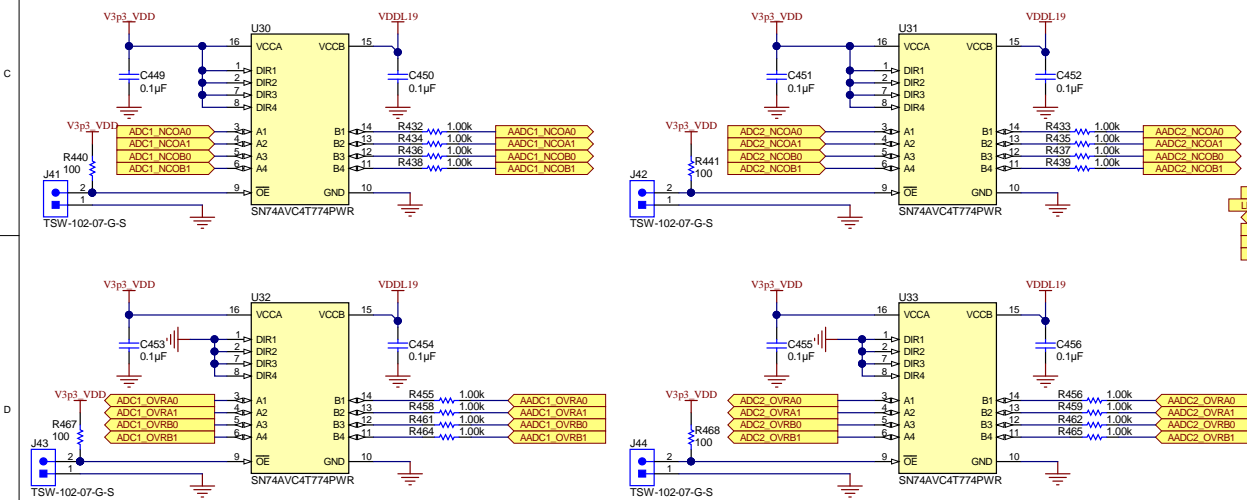
ADC Programming



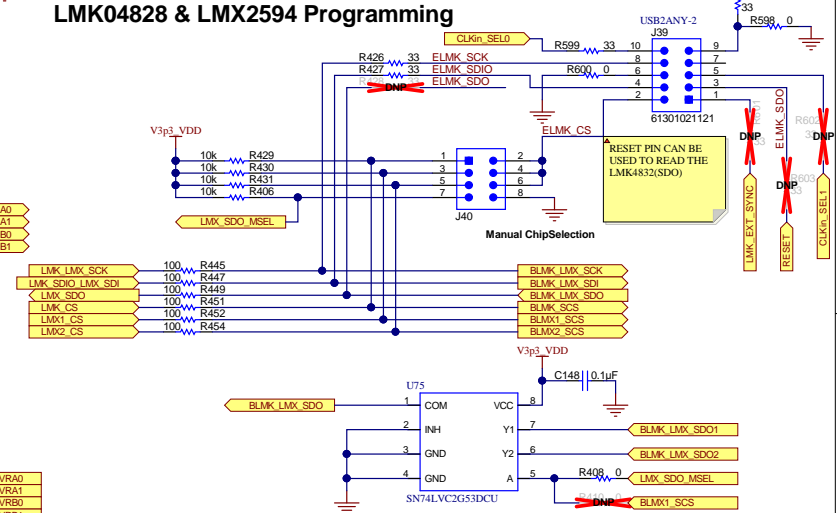
LMH6401 Programming



ADC1 & 2 OverRange & NCO Selection



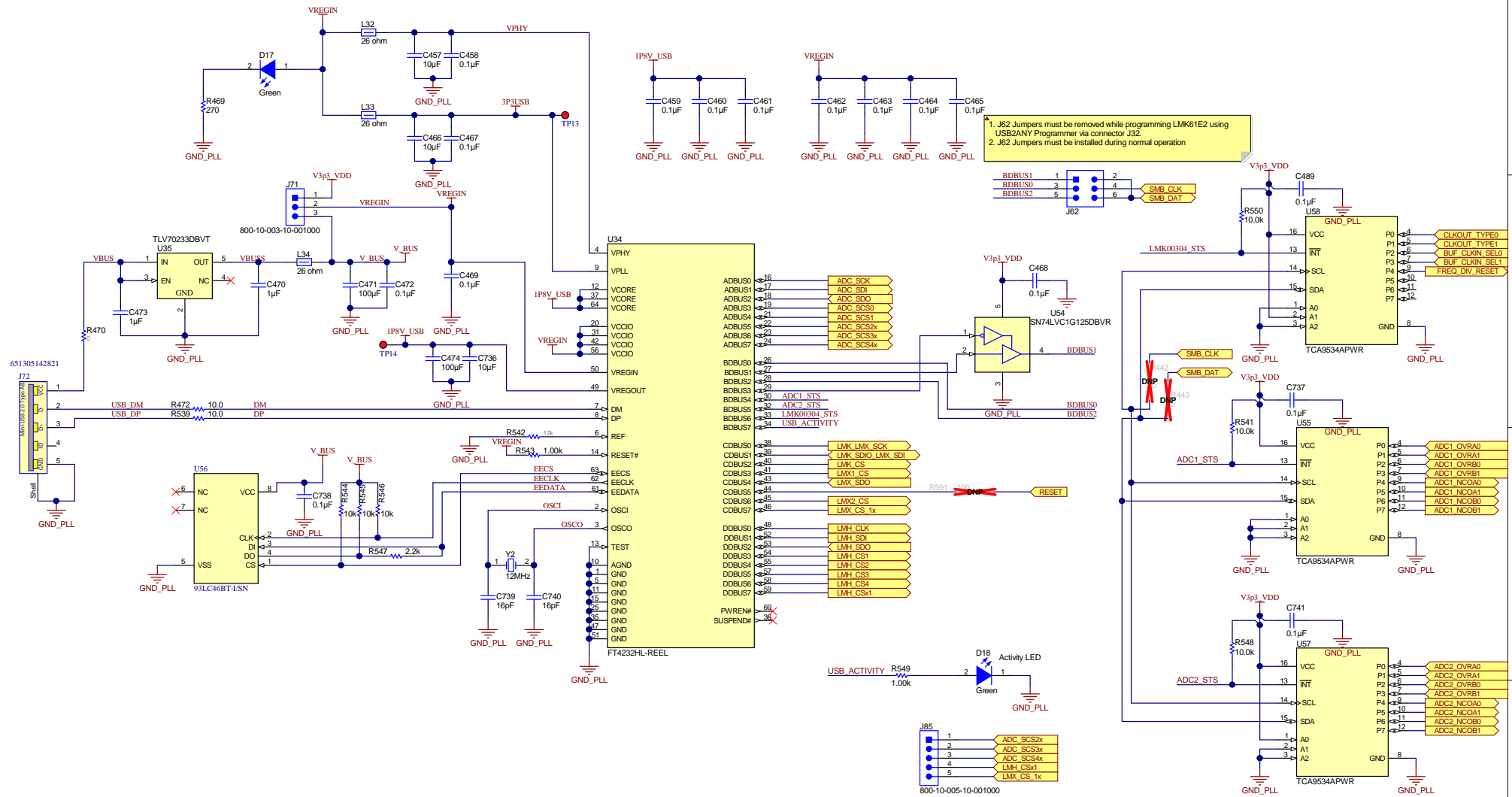
LMK04828 & LMX2594 Programming



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: Programming for ADC, LMK, LMX
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A, Onboard Power	Sheet: 15 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_Programming for ADC, LMK, LMX BehBoc	
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

USB to SPI Interface



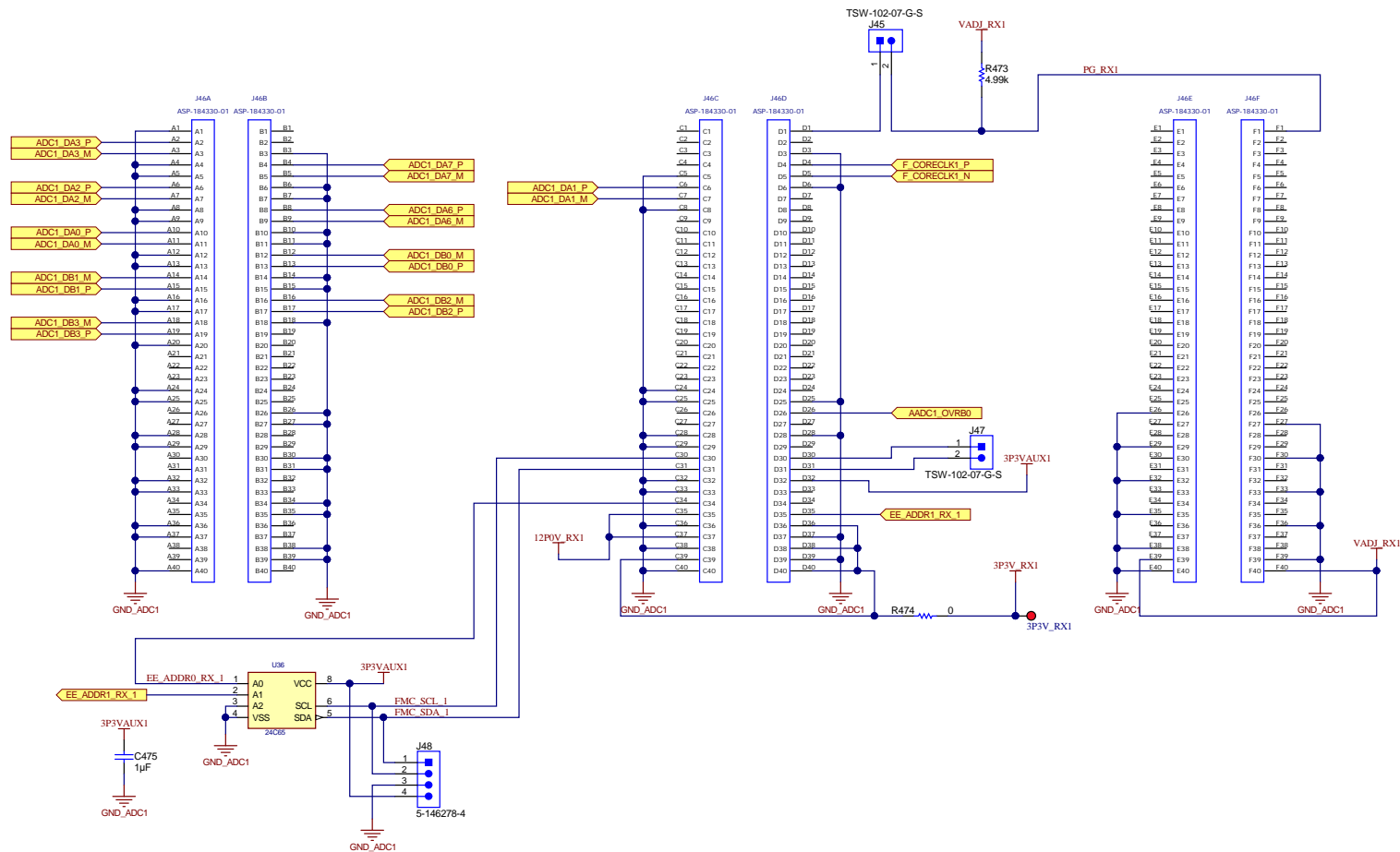
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Build on: TIDA-01022-E3 PCB and power solution used from 1		
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
Drawn by: Avinash N	File: TIDA-01022-E3 USB SchDoc	Sheet: 16 of 26
Engineer: Anbu Mani	Contact: http://www.ti.com/support	Size: B



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ADC1 FMC+_1 Connector



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

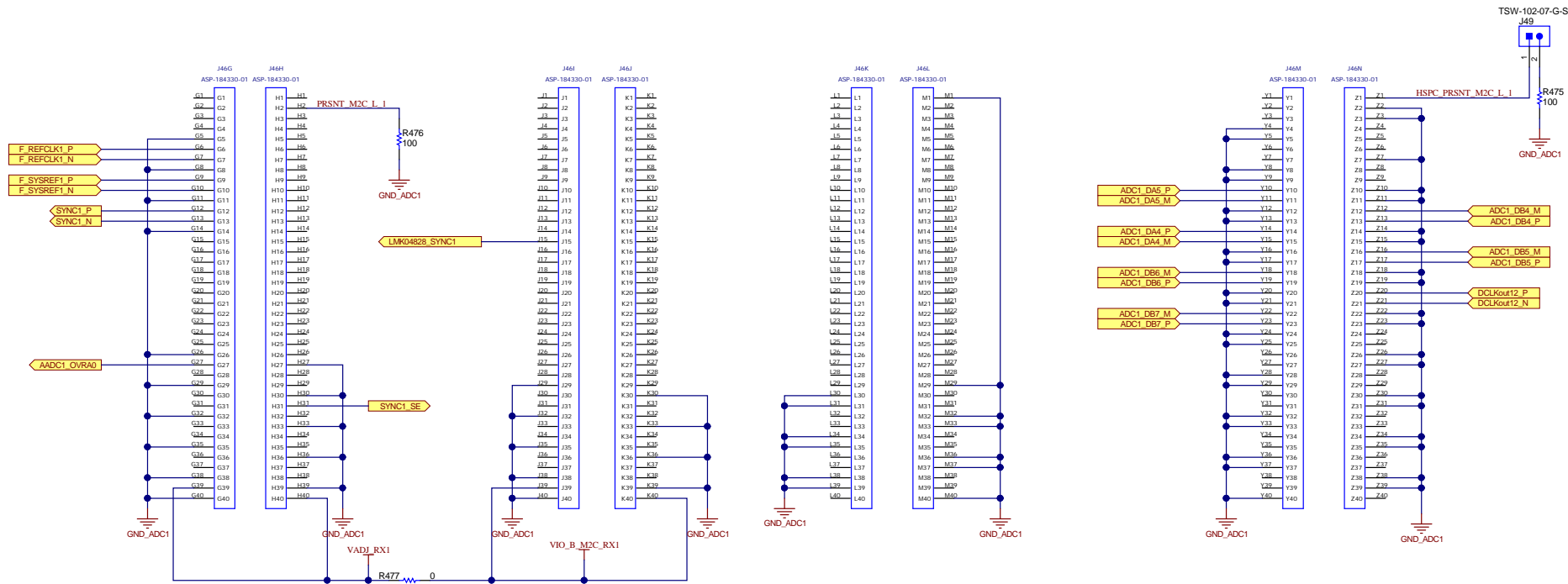
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Number: TIDA-01028		Rev. E3		Sheet Title: FMC+CONN1	
SVN Rev. Version control disabled		Assembly Variant: TIDA-01022A Onboard Power			
Drawn By: Avinash N		File: TIDA-01022-E3 FMC+CONN1.1.SchDoc			
Engineer: Anbu Mani		Contact: http://www.ti.com/support			
		Sheet: 17 of 26			
		Size: B			



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ADC1 FMC+_1 Connector



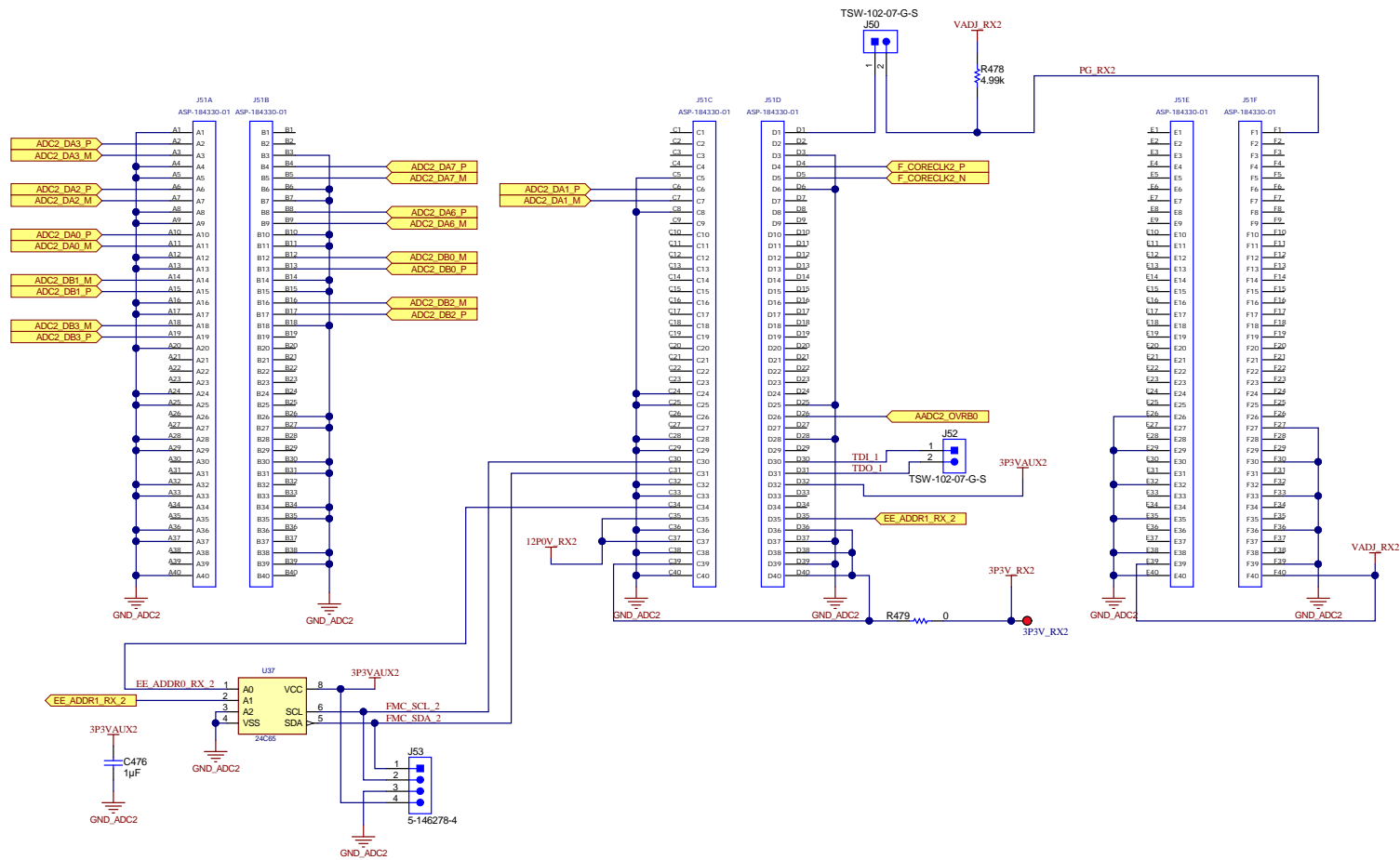
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 2/16/2018
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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



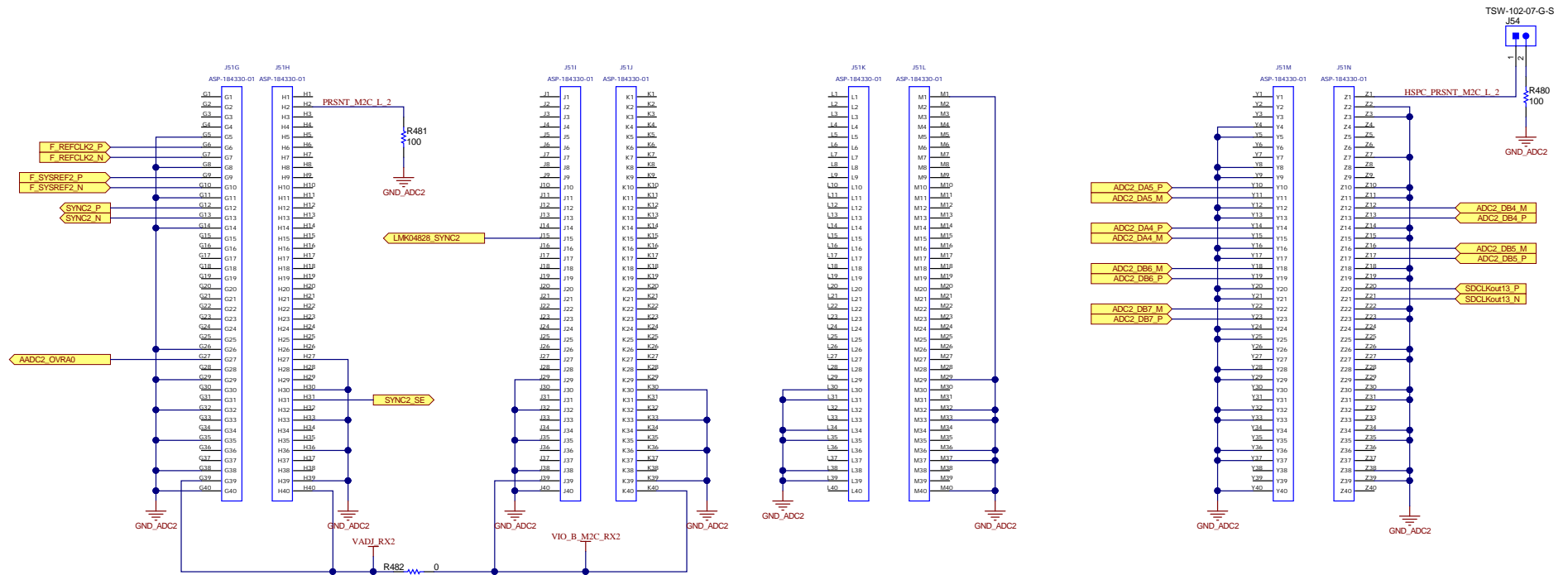
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

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_Pow	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

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: 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	

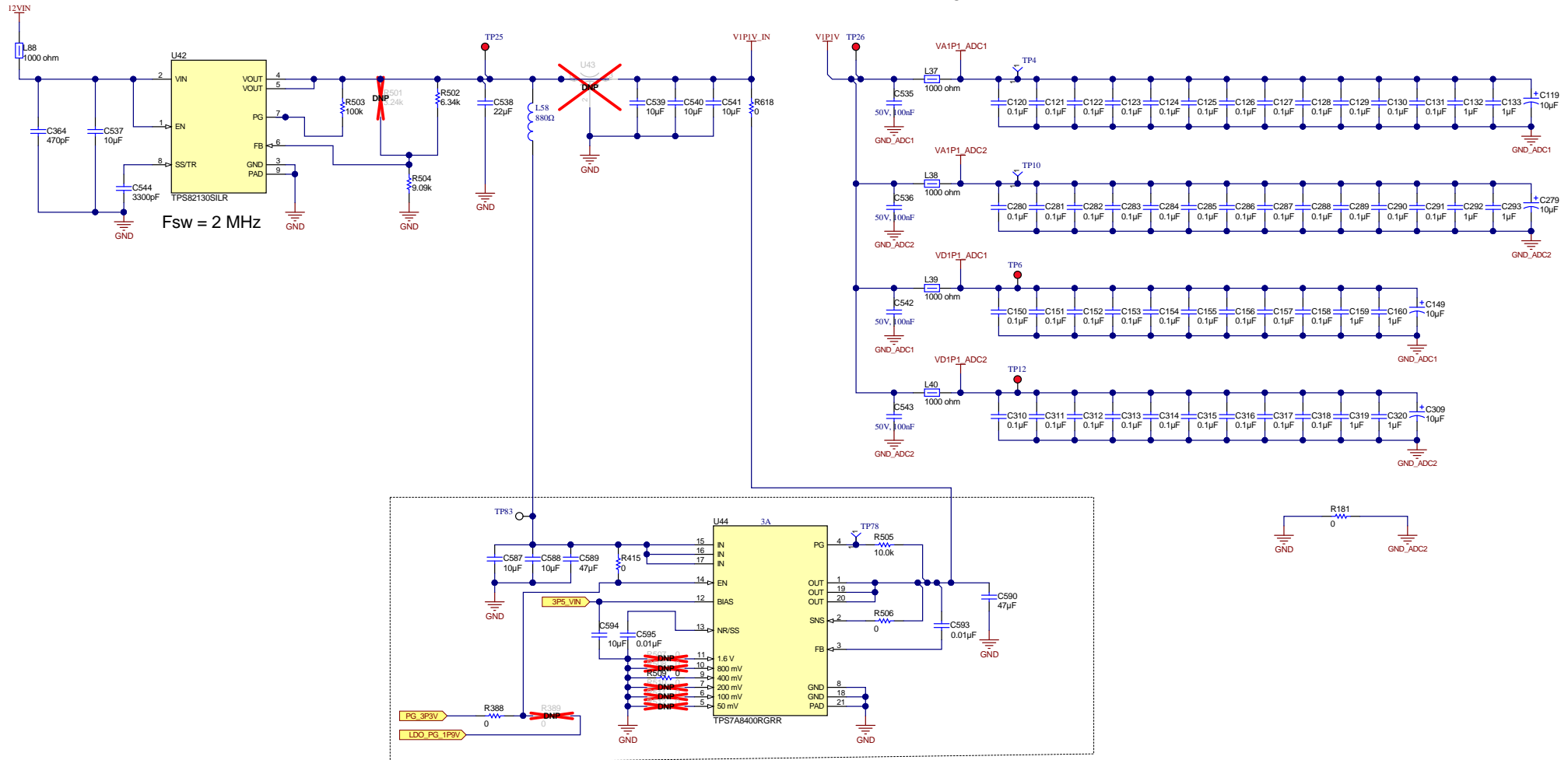


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+1.1V POWER RAIL



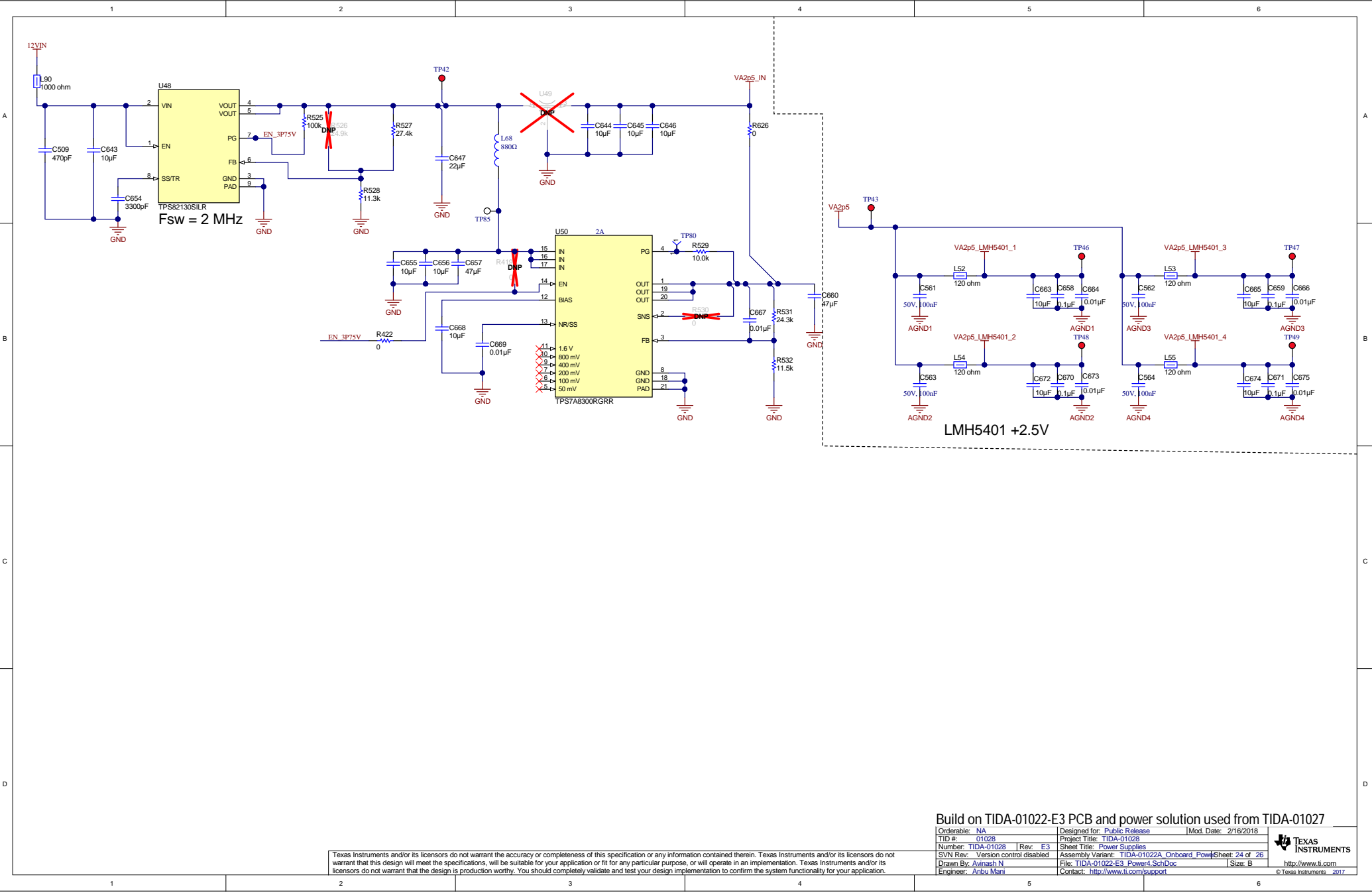
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 2/16/2018
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Number: TIDA-01028 Rev: E3	Sheet Title: Power Supplies	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A_Onboard_Pow	Sheet: 22 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_Power2_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	http://www.ti.com



