

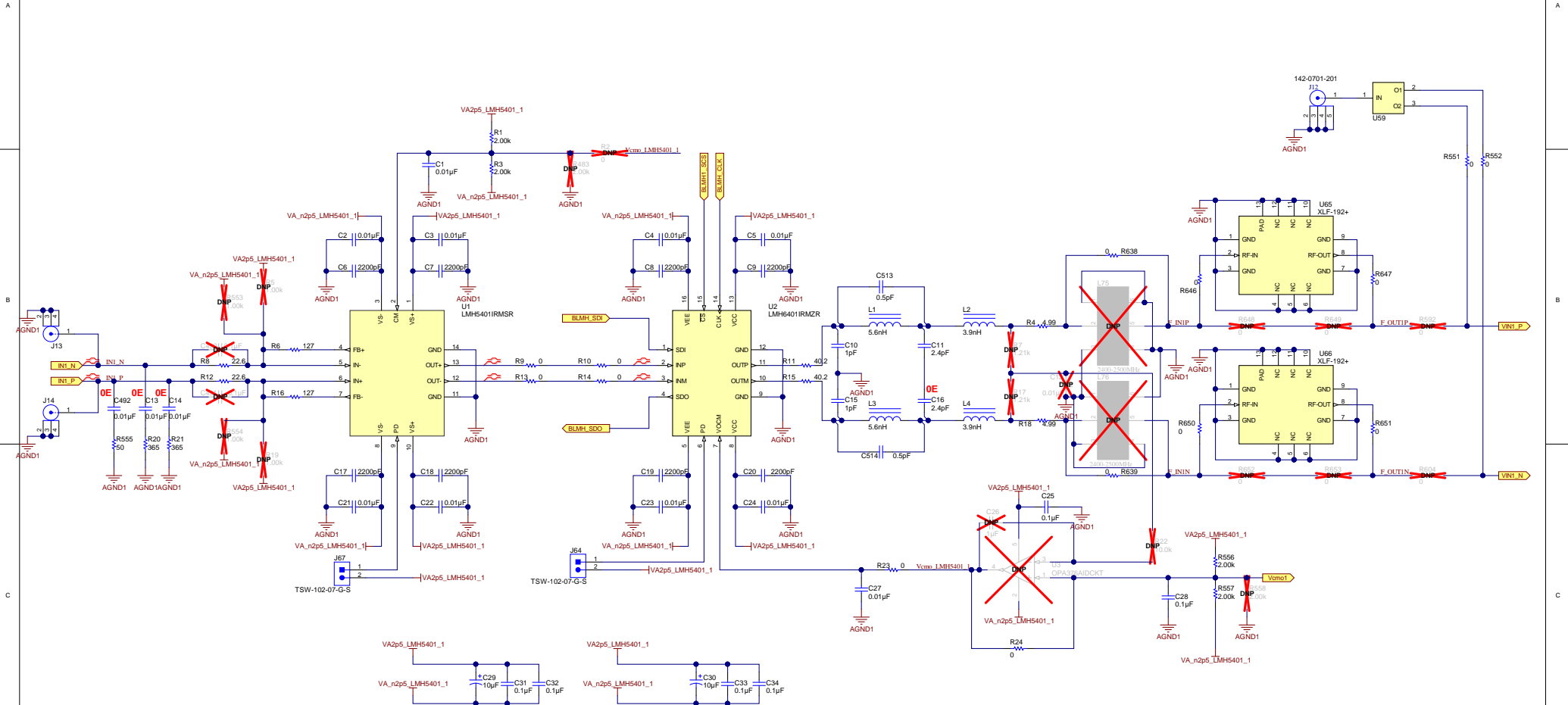
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
TID #: 010122	Project Title: TIDA-010122	
Number: TIDA-010122 Rev: E3	Sheet Title: Block Diagram	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3_with_TIDA-01027	Page 4 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_CoverSheet_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	



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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		
Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
TID # 010122	Project Title: TIDA-010122	
Number: TIDA-010122 Rev. E3	Sheet Title: ADC ANALOG INP CH1	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027	
Drawn By: Avinash N	File: TIDA-01022-E3_ADC_ANALOG_INP_CH1_Sch18.rvt	
Engineer: Arbu Mani	Contact: http://www.ti.com/support	

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1 2 3 4 5 6

A

A

B

B

C

C

D

D

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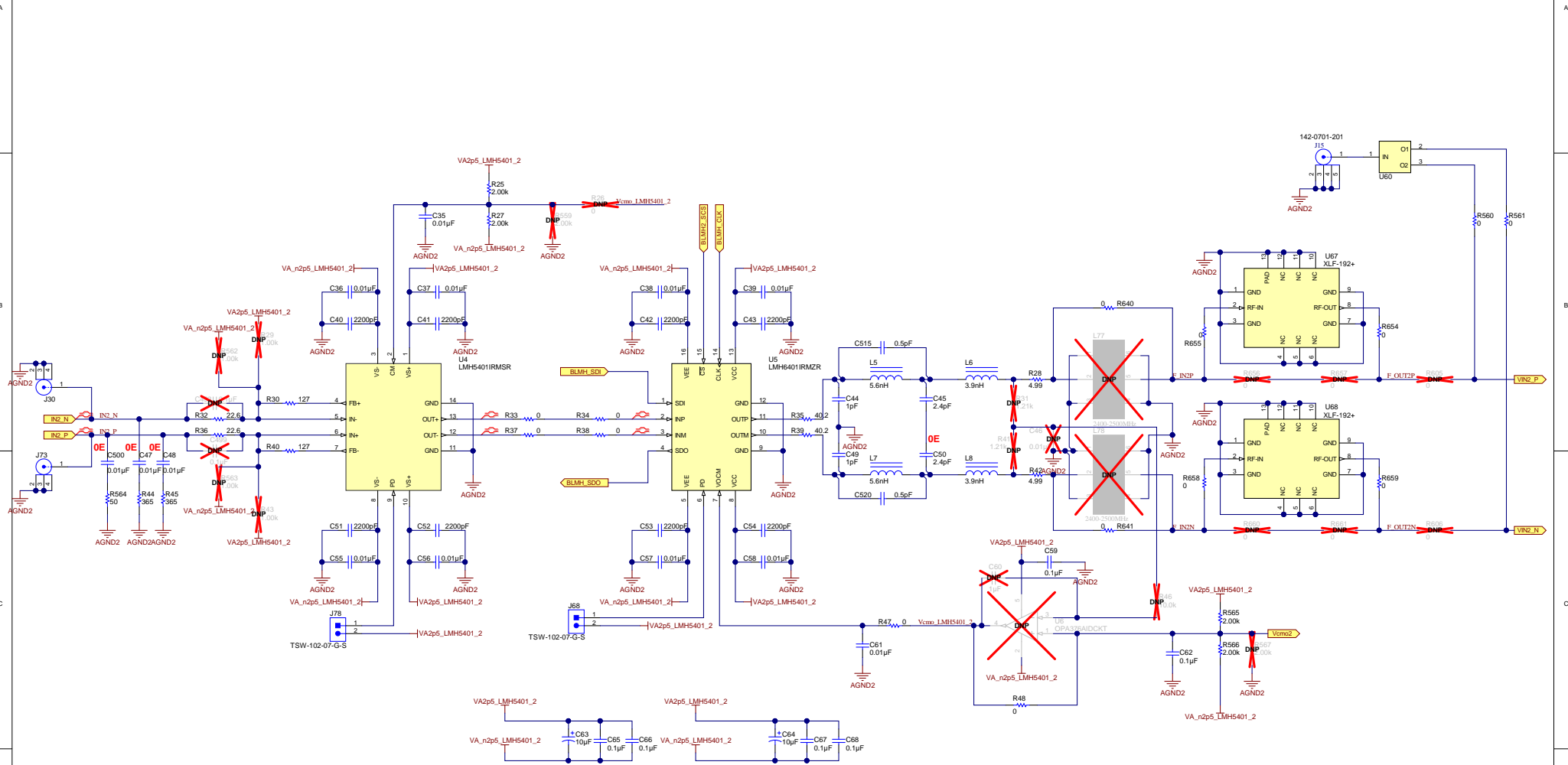
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Number: TIDA-010122 Rev: E3	Sheet Title:	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022 E3 with TIDA-010122	Sheet # of 3
Drawn By:	File: Sheet1.SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	



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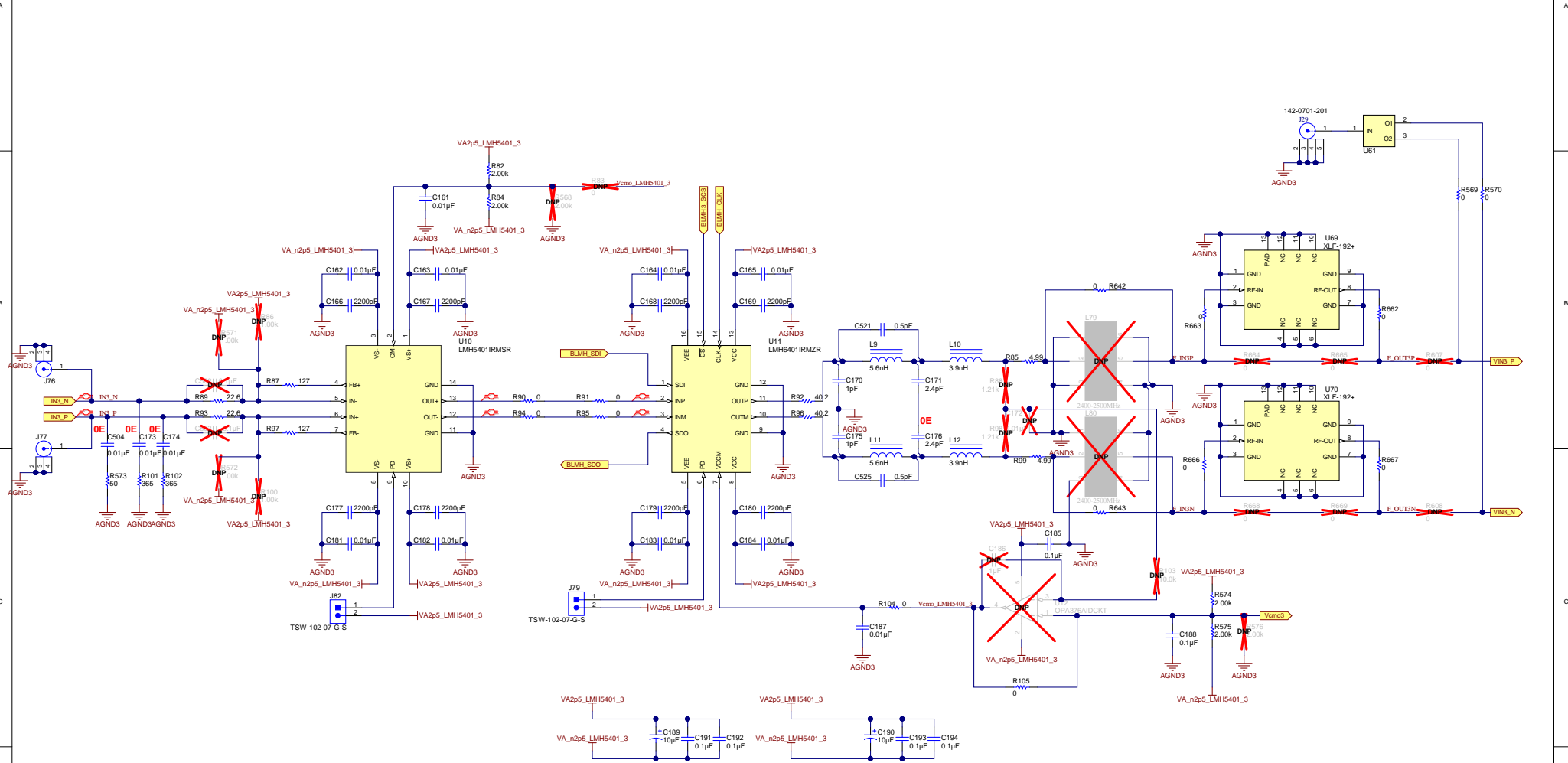
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ANALOG INPUT CH-2



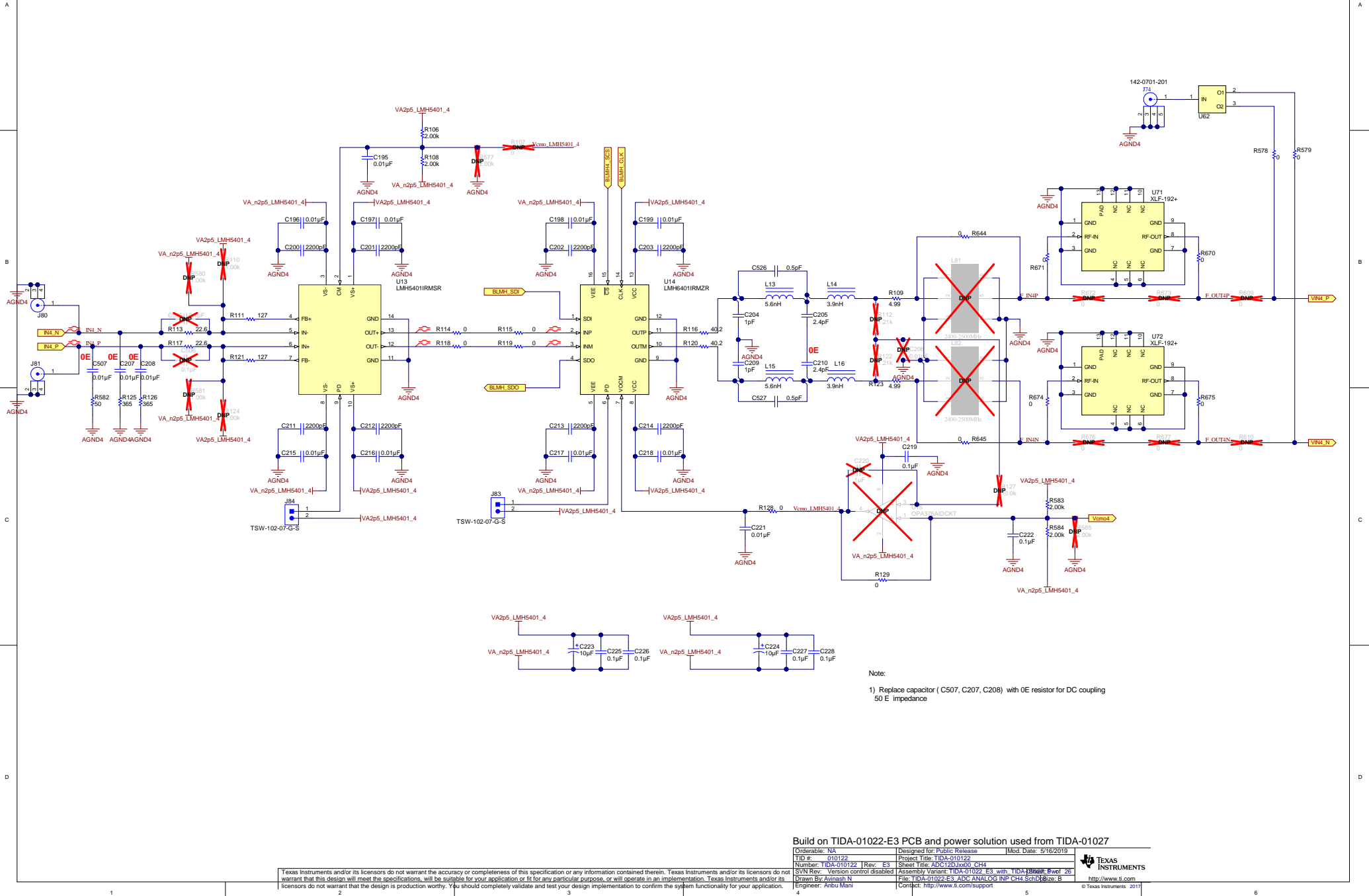
Note:
 1) Replace capacitor (C500, C47, C48) with OE resistor for DC coupling 50 E impedance

ANALOG INPUT CH-3



Note:
 1) Replace capacitor (C504, C173, C174) with OE resistor for DC coupling 50 E impedance

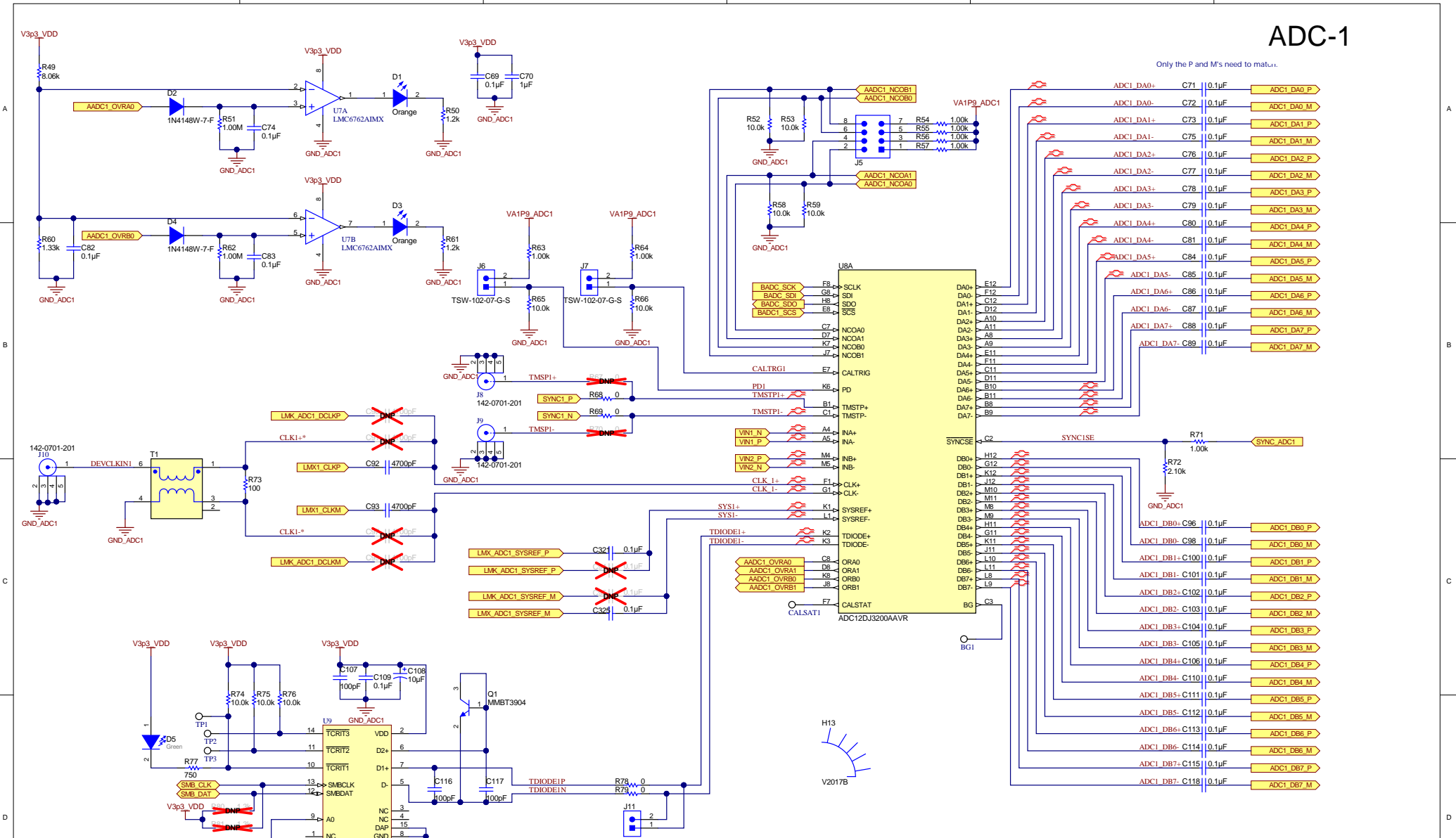
ANALOG INPUT CH-4



Note:
 1) Replace capacitor (C507, C207, C208) with 0E impedance 50 E

ADC-1

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



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

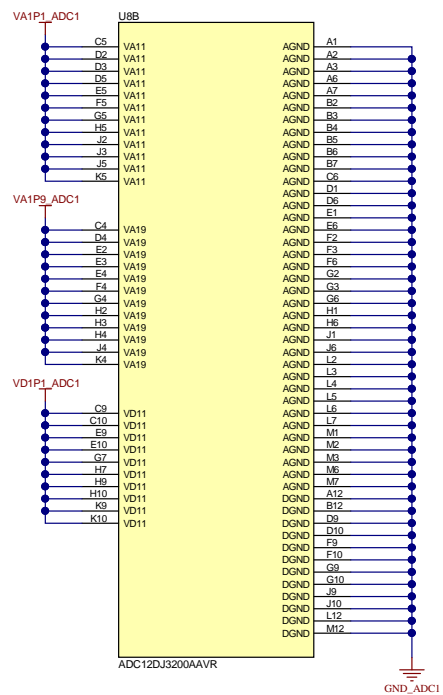
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Number: TIDA-010122 Rev. E3	Sheet Title: ADC12DJ3200_1	
SVM Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01022-E3	Page 4 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_ADC12DJ3200_1.SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

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ADC-1



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

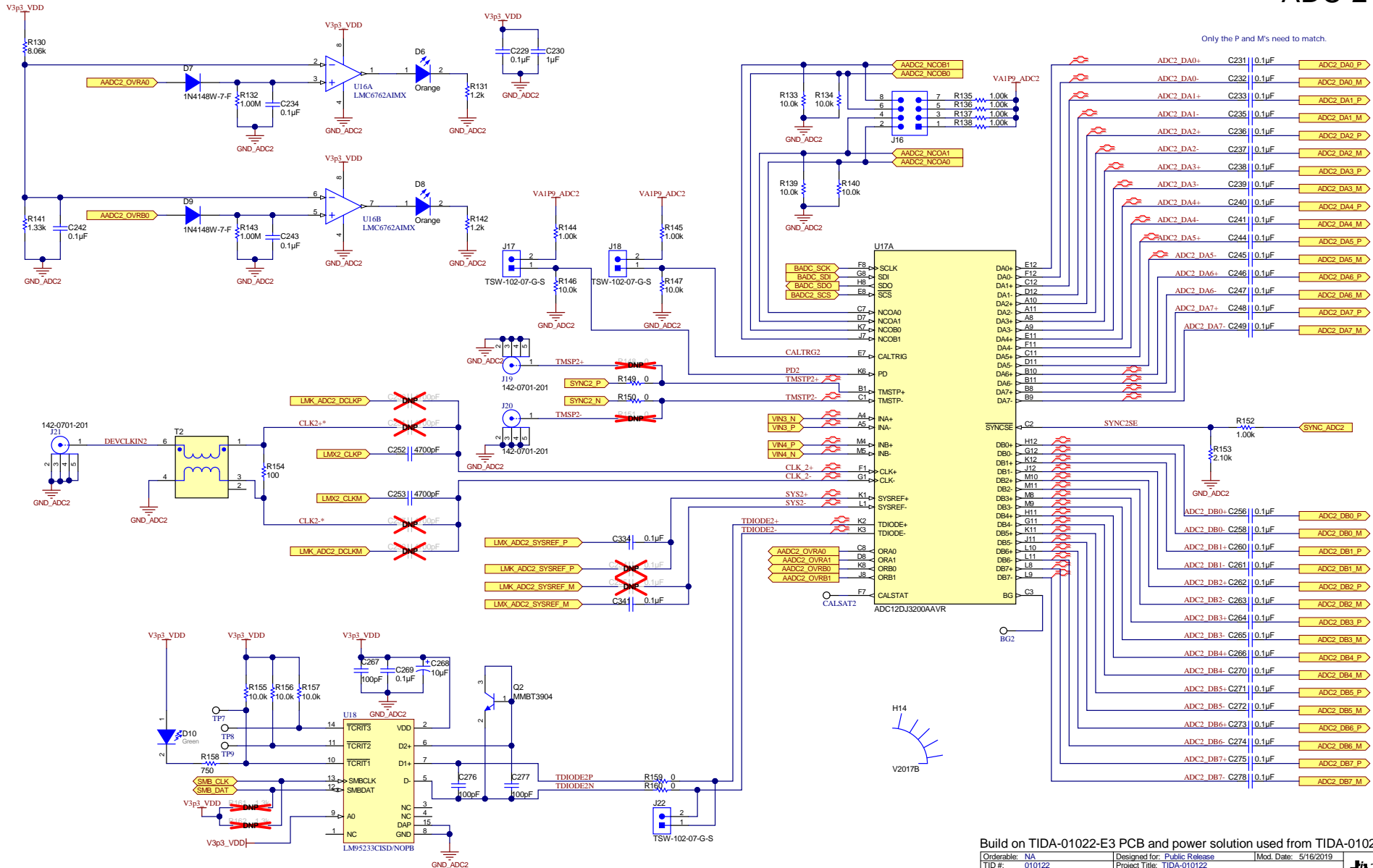
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Number: TIDA-010122 Rev: E3	Sheet Title: ADC12DJ3200_1PWR	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027	Page 26 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_ADC12DJ3200_1PWR_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	



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ADC-2

Only the P and M's need to match.



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

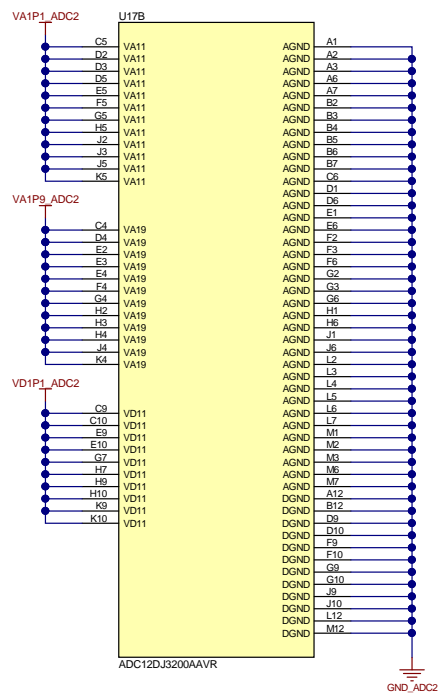
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Number: TIDA-010122 Rev. E3	Sheet Title: ADC12DJ3200_2	
SVN Rev. Version control disabled	Assembly Variant: TIDA-01022_E3_w/lt_TIDA-01027	Page 4 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_ADC12DJ3200_2_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

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ADC-2



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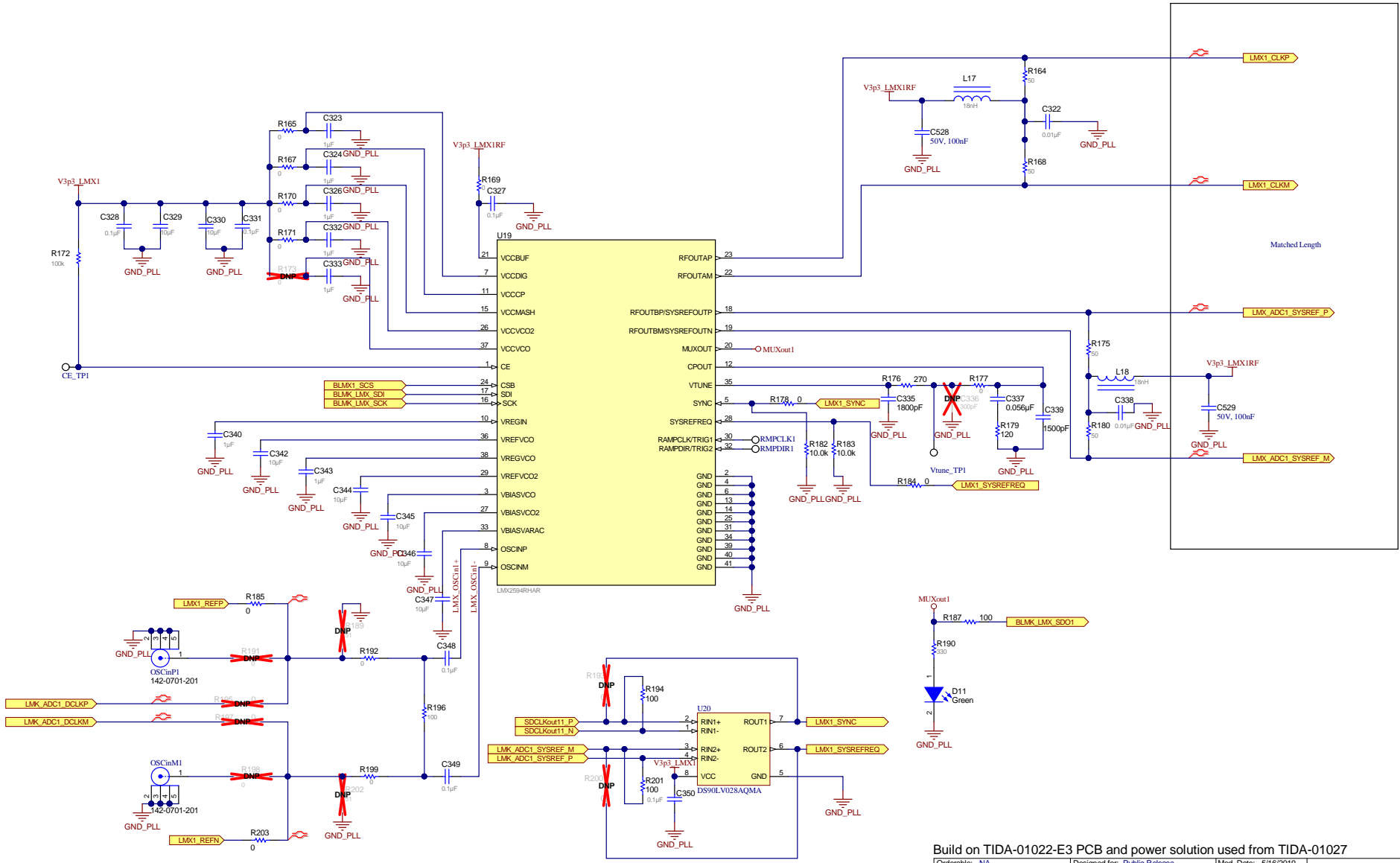
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

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Number: TIDA-010122 Rev: E3	Sheet Title: ADC12DJ3200_1PWR	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027	Page 4 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_ADC12DJ3200_2PWR_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	



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LMX2594 -1



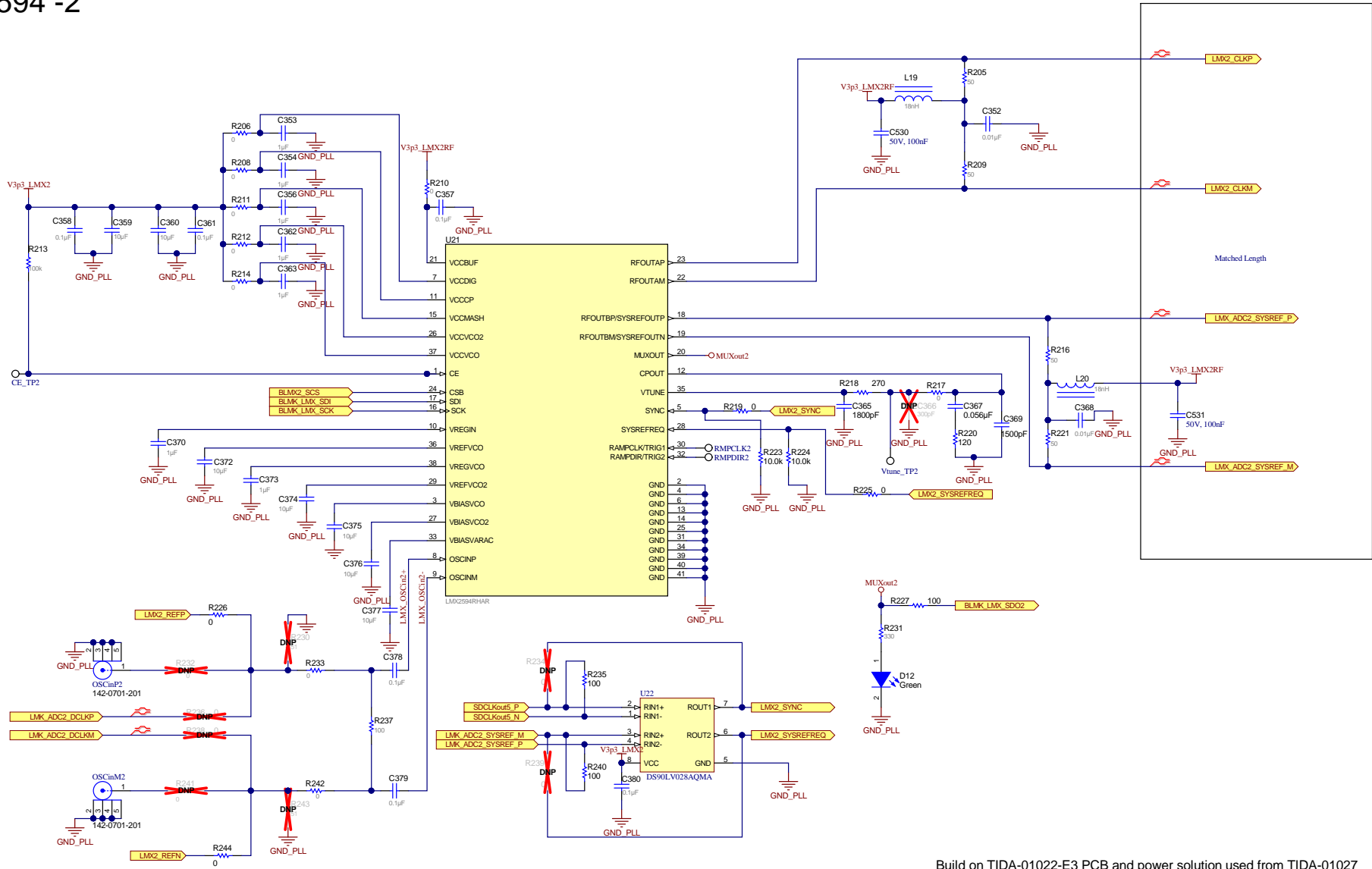
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
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Number: TIDA-010122 Rev: E3	Sheet Title: LMX2594R	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022_E3_with_TIDA-16000E4 of 26	
Drawn By: Avinash N	File: TIDA-01022-E3_LMX2594R_1.SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

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LMX2594 -2



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

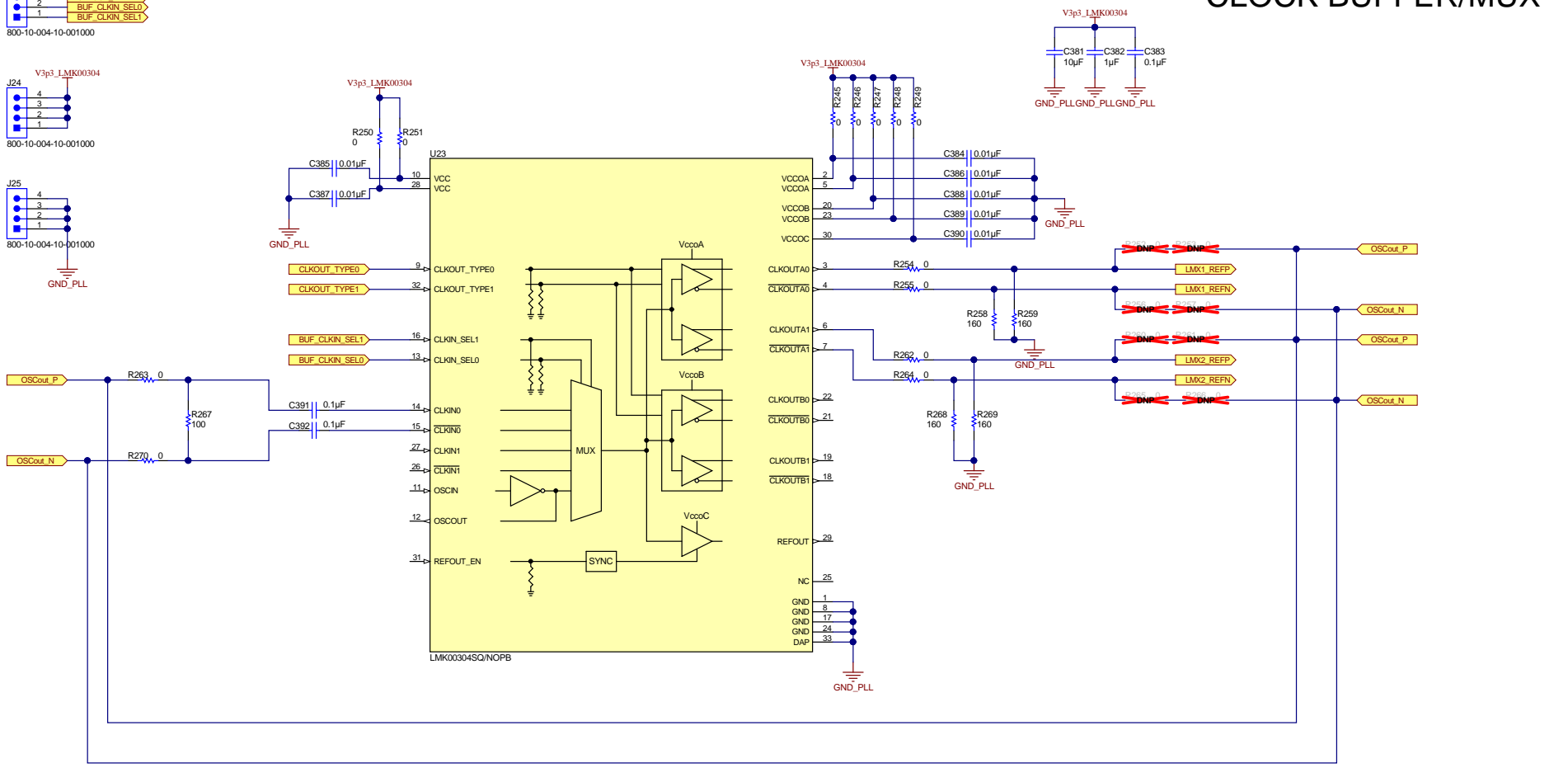
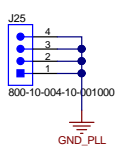
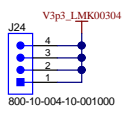
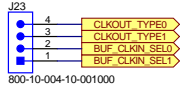
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TID #: 010122	Project Title: TIDA-010122	
Number: TIDA-010122 Rev: E3	Sheet Title: LMX2594R	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027	Page 4 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_LMX2594R_2.SchDoc	Size: B
Engineer: Anbu 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

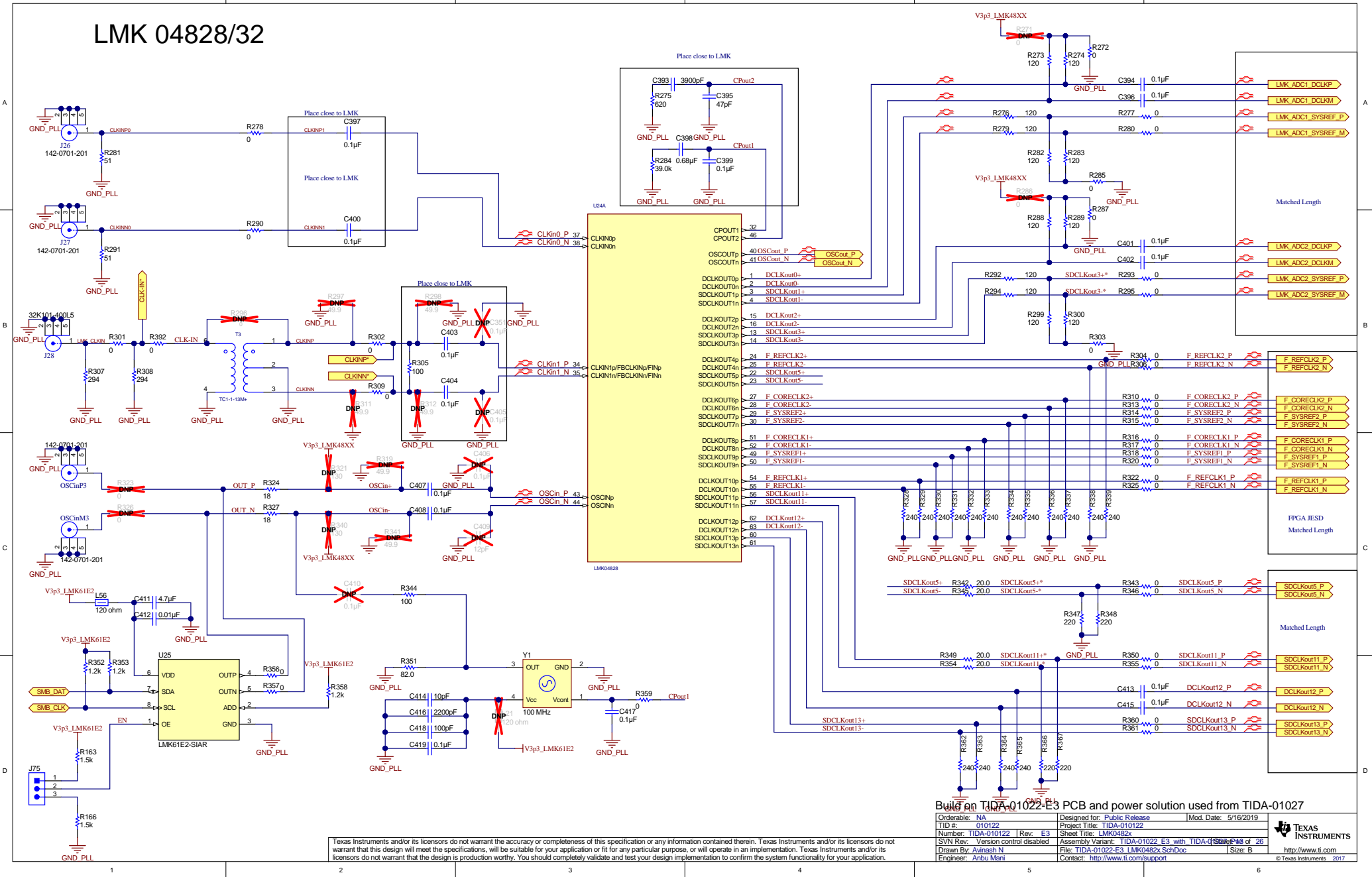
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Number: TIDA-010122 Rev: E3	Sheet Title: LMK00304_Buffer	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3_with_TIDA-01027	Page 4 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_LMK00304_Buffer_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

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LMK 04828/32



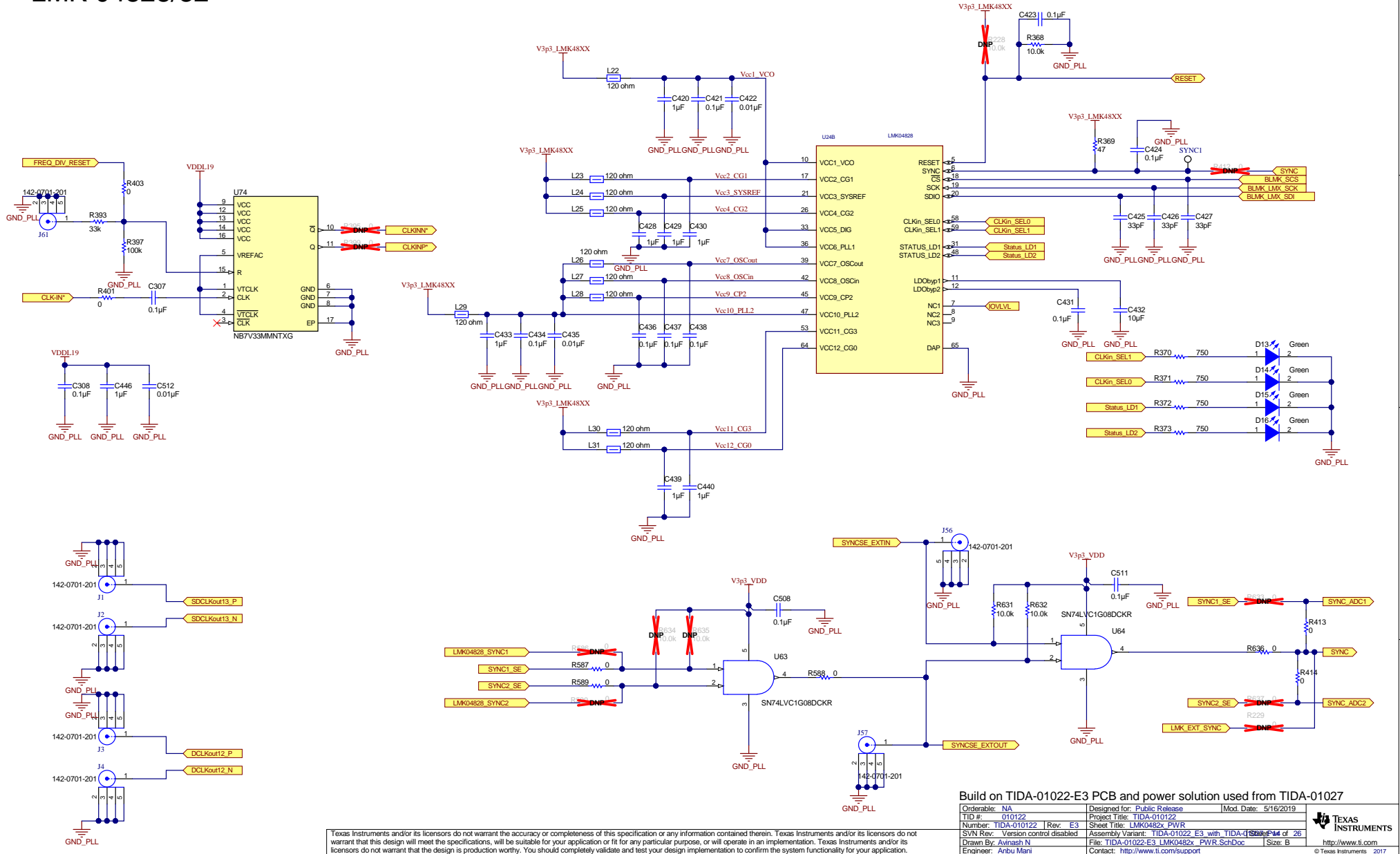
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Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
TID #: 010122	Project Title: TIDA-010122	
Number: TIDA-010122 Rev: E3	Sheet Title: LMK0482x	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3_w/ih_TIDA-01027-P4 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



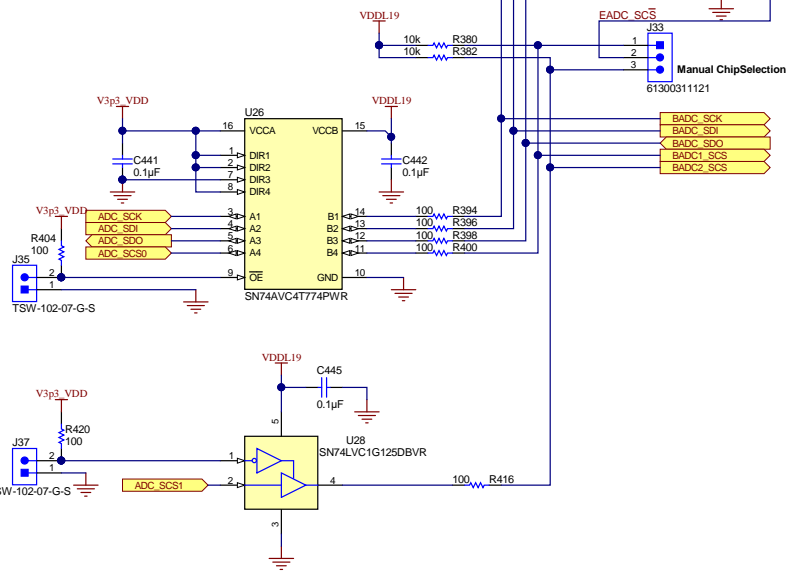
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Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

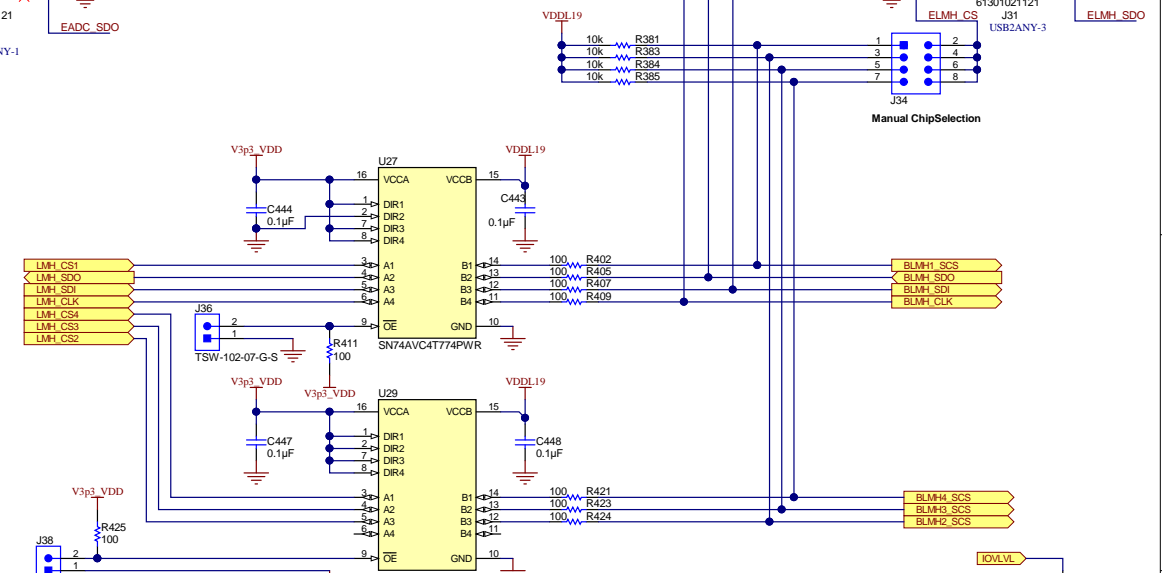
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TID #: 010122	Project Title: TIDA-010122	
Number: TIDA-010122 Rev: E3	Sheet Title: LMK0482x_PWR	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022_E3_wtih_TIDA-01027	Page 4 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_LMK0482x_PWR_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

TEXAS INSTRUMENTS
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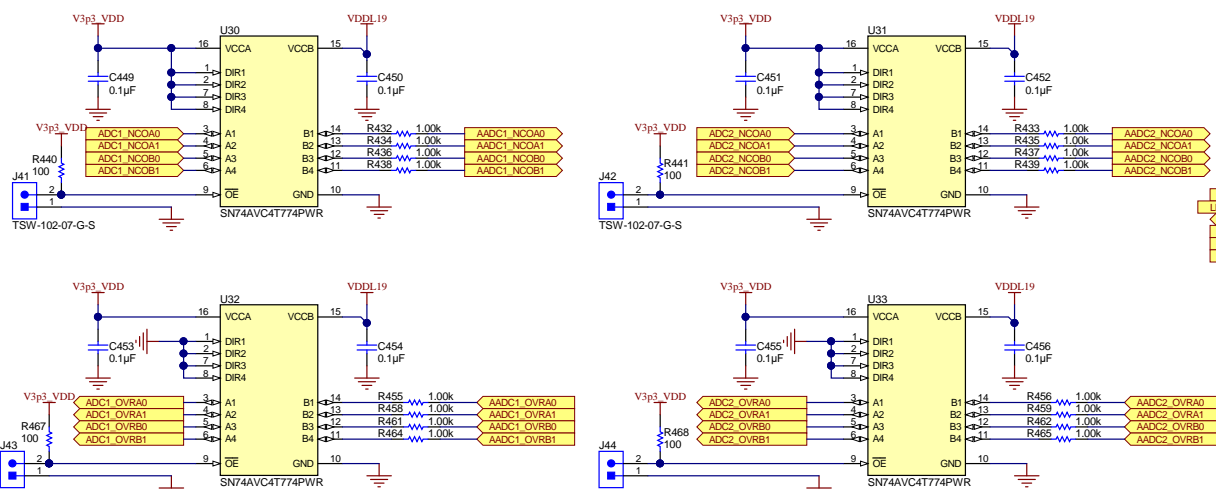
ADC Programming



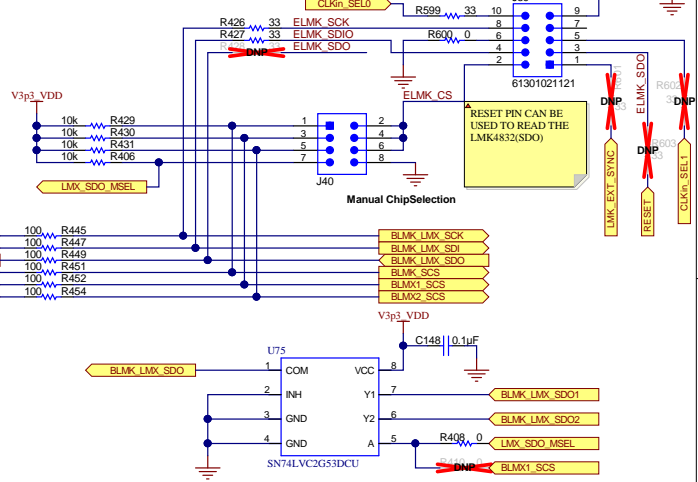
LMH6401 Programming



ADC1 & 2 OverRange & NCO Selection



LMK04828 & LMX2594 Programming



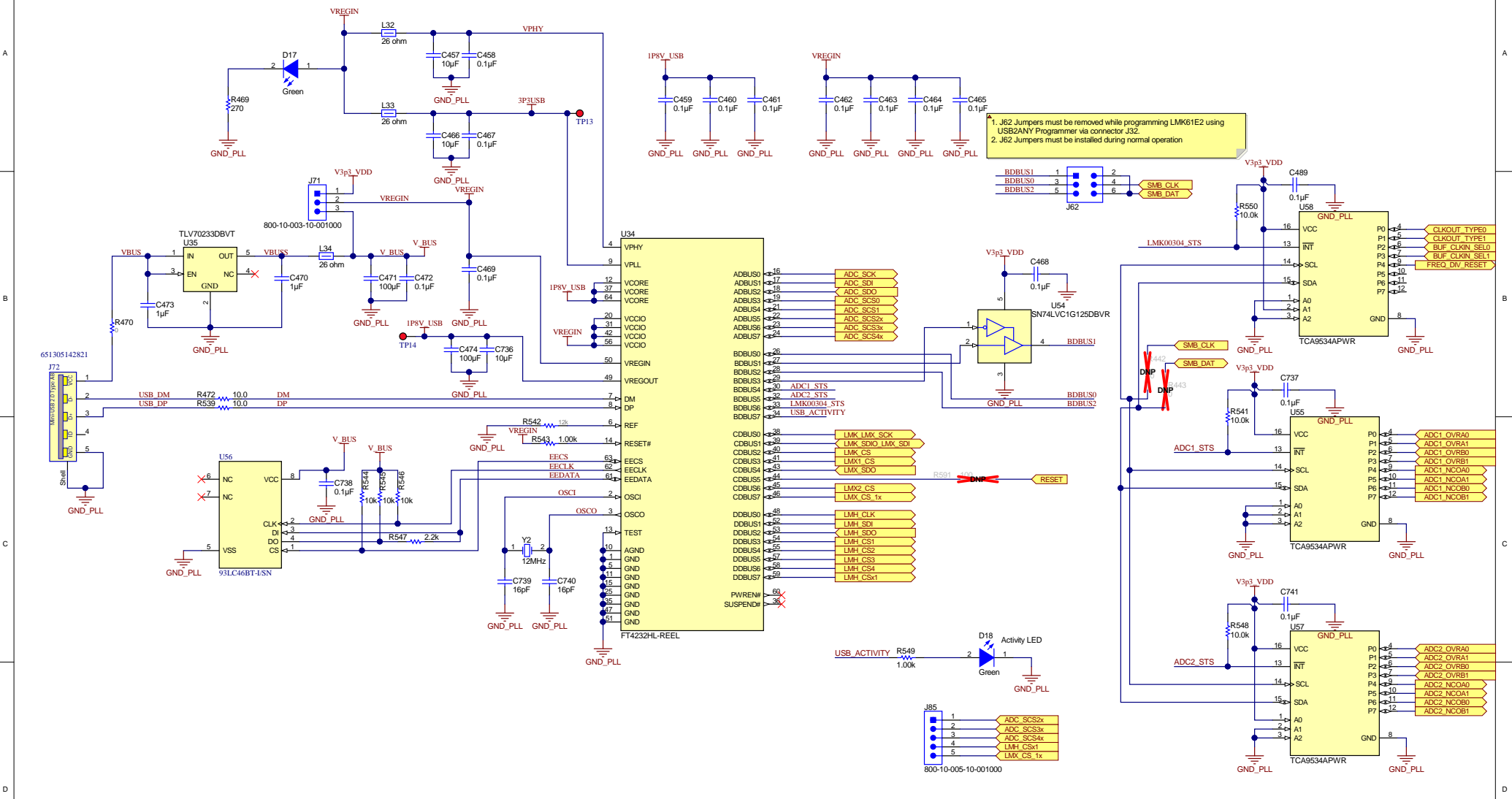
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

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Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
TID #: 010122	Project Title: TIDA-010122	
Number: TIDA-010122 Rev: E3	Sheet Title: Programming for ADC, LMK, LMX	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022_E3 with TIDA-01027	Page 4 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_Programming for ADC LMK LMX Rev B.ecad	http://www.ti.com
Engineer: Anbu Mani	Contact: http://www.ti.com/support	© Texas Instruments 2017



USB to SPI Interface



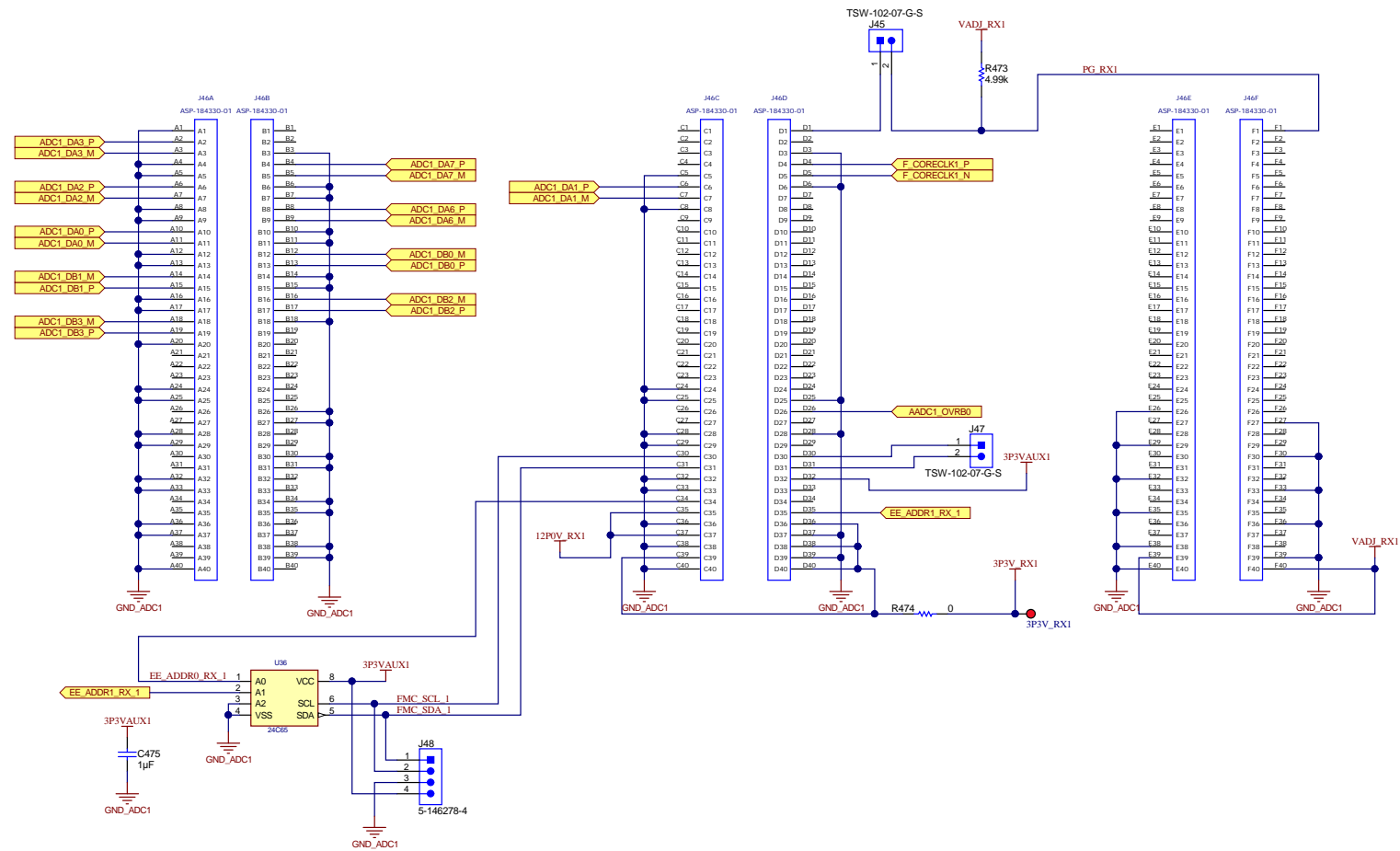
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

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Number: TIDA-010122 Rev: E3	Sheet Title: USB	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01022-E3	Page 6 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



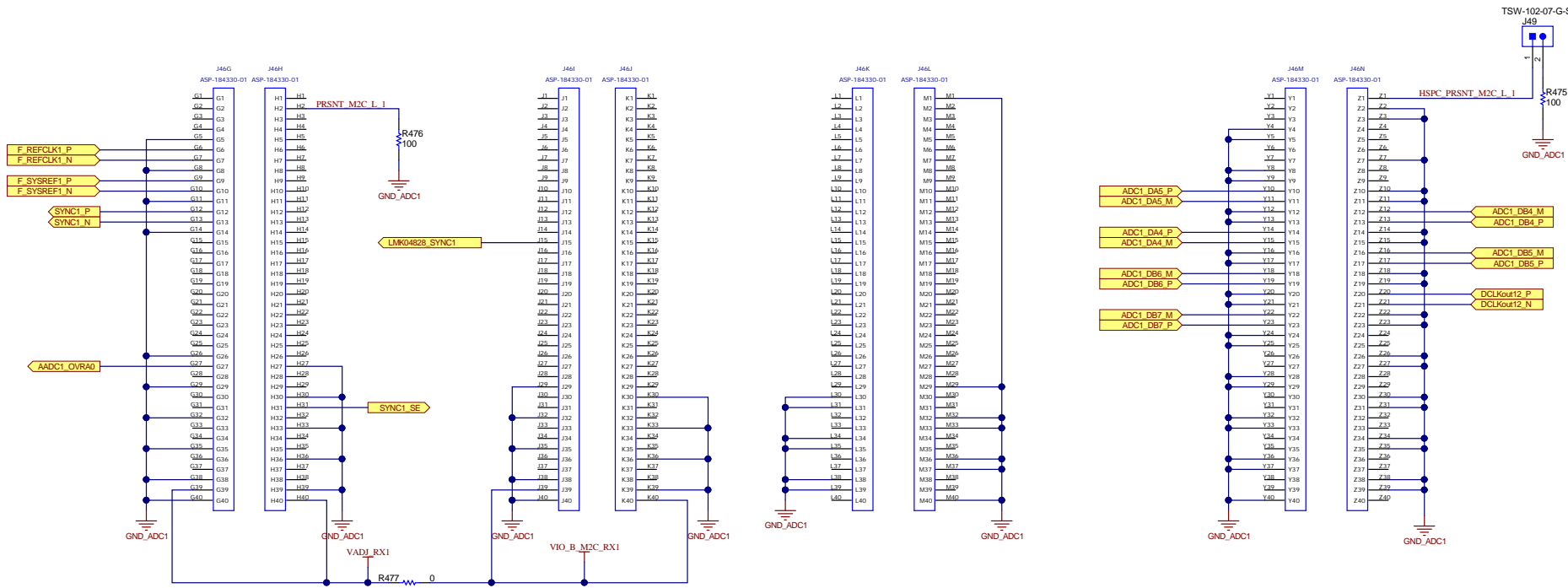
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

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Number: TIDA-010122 Rev: E3	Sheet Title: FMC+CONN1	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-184330-01	Page 4 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

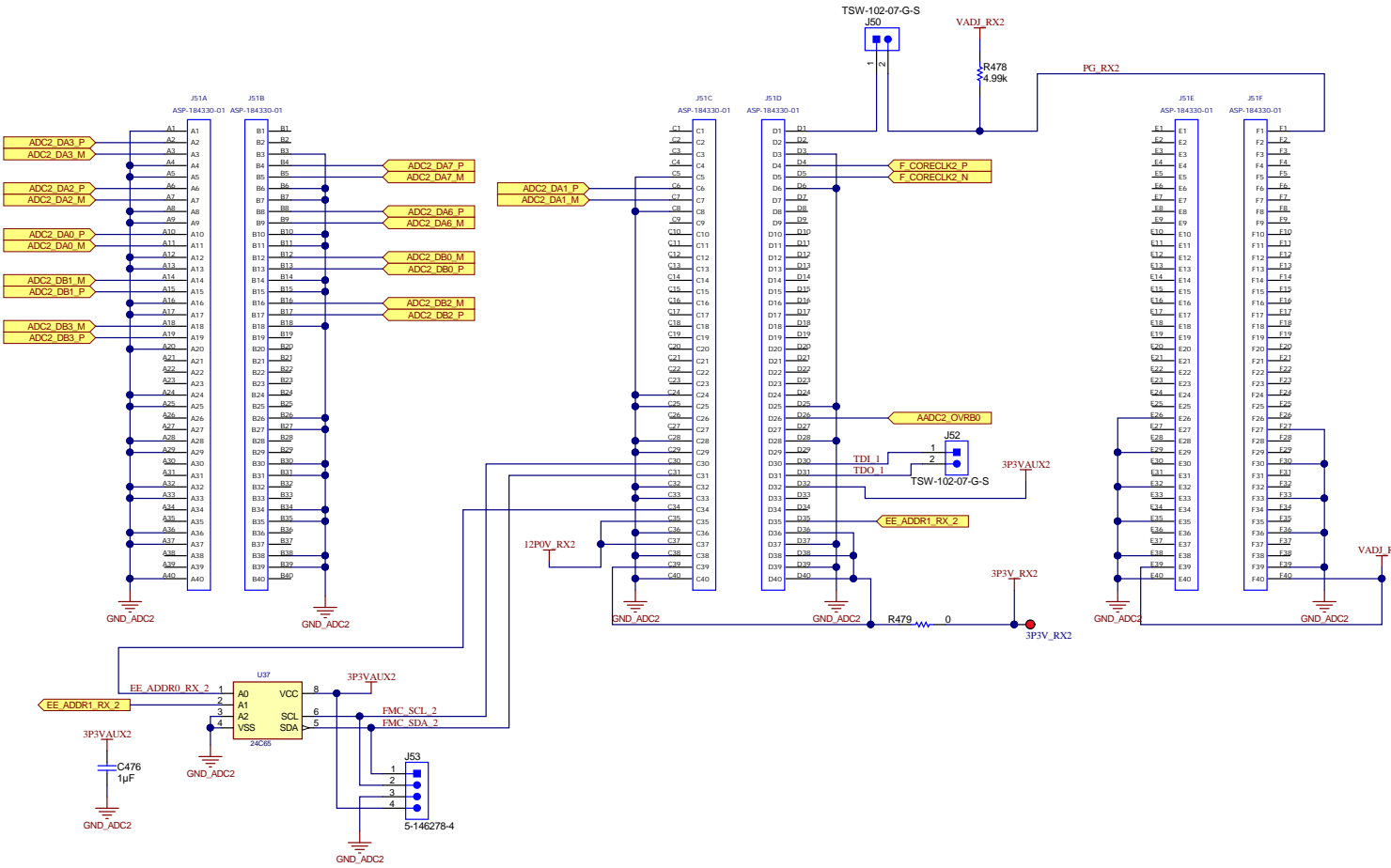
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SVN Rev: Version control disabled	Assembly Variant: TIDA-01022_E3_with_TIDA-184330-01	Page 4 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_FMC+CONN1_2_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

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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: 5/16/2019
TID #: 010122	Project Title: TIDA-010122	
Number: TIDA-010122 Rev: E3	Sheet Title: FMC+CONN2	
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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

1 2 3 4 5 6

A

B

C

D

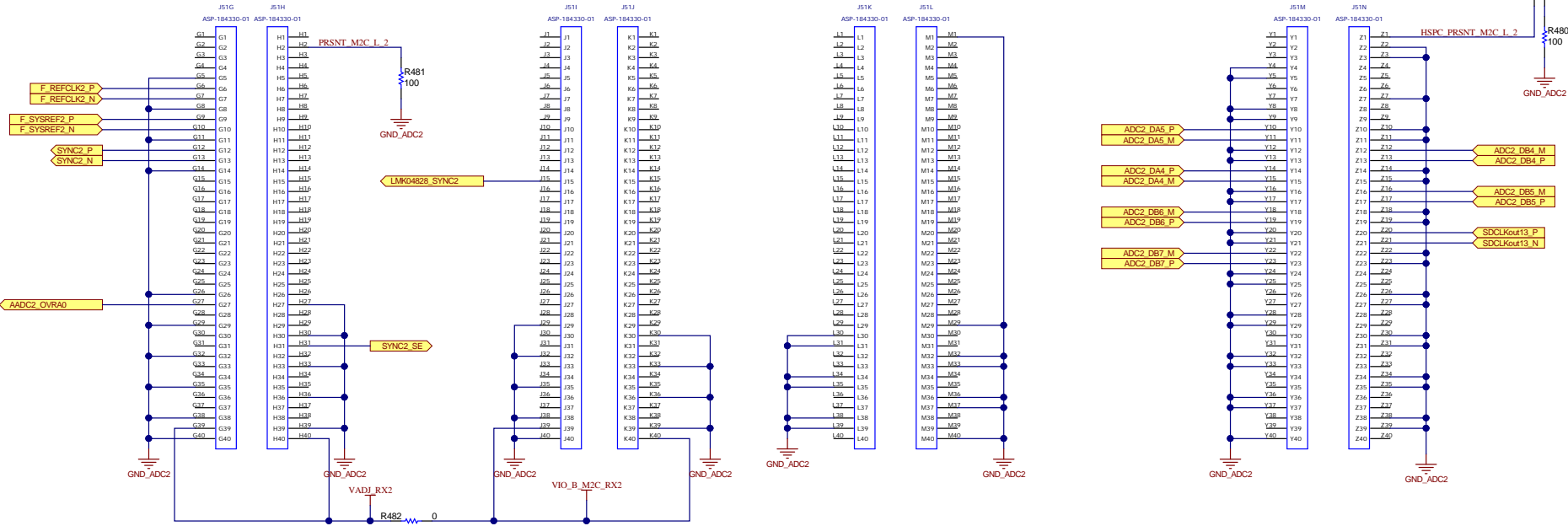
TSW-102-07-G-S

J54

R480

100

GND_ADC2



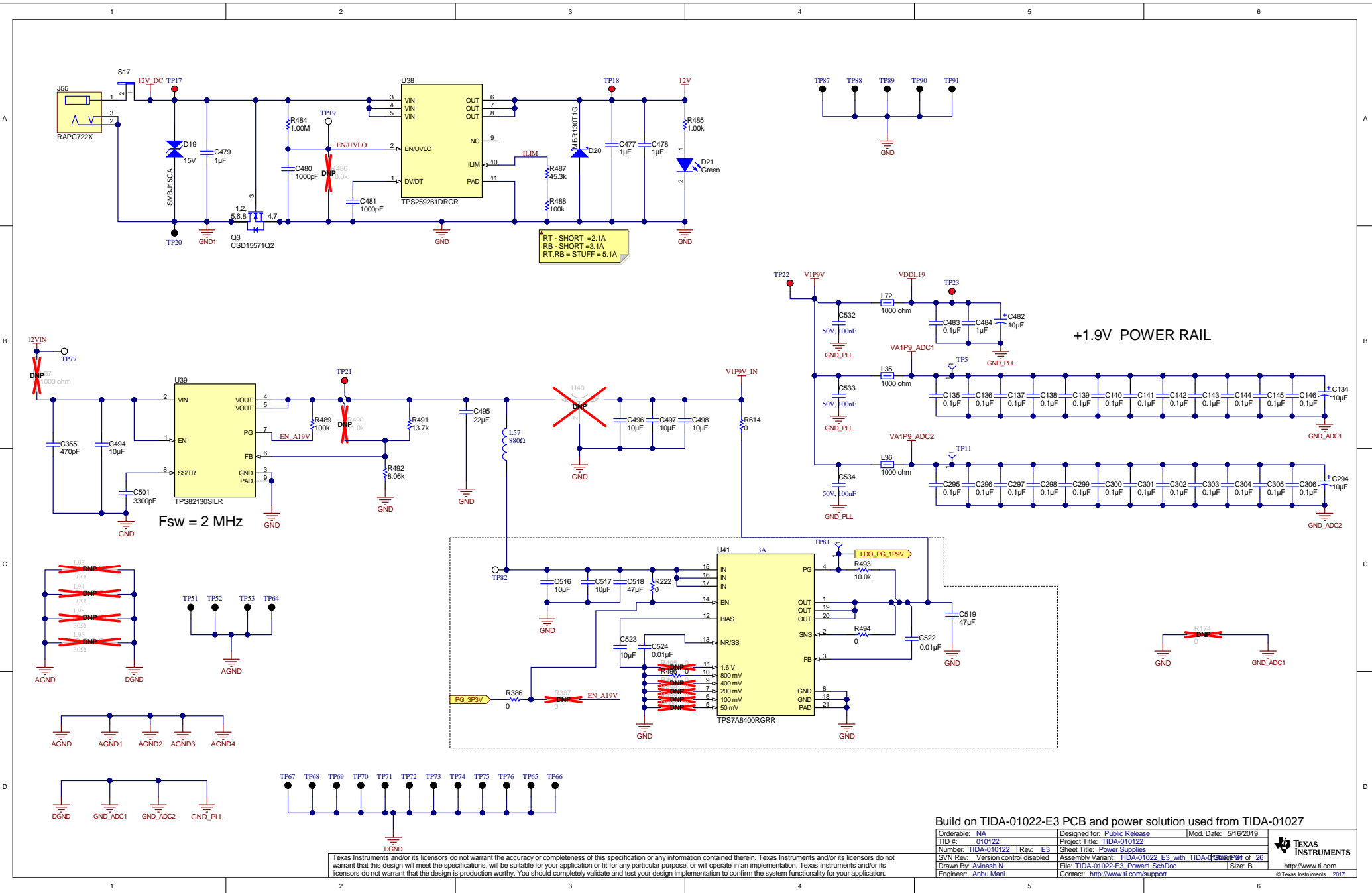
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

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Number: TIDA-010122 Rev: E3	Sheet Title: FMC+CONN2	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01022-E3	Page 26 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 2 3 4 5 6



RT - SHORT = 2.1A
 RB - SHORT = 3.1A
 RT, RB = STUFF = 5.1A

+1.9V POWER RAIL

Fsw = 2 MHz

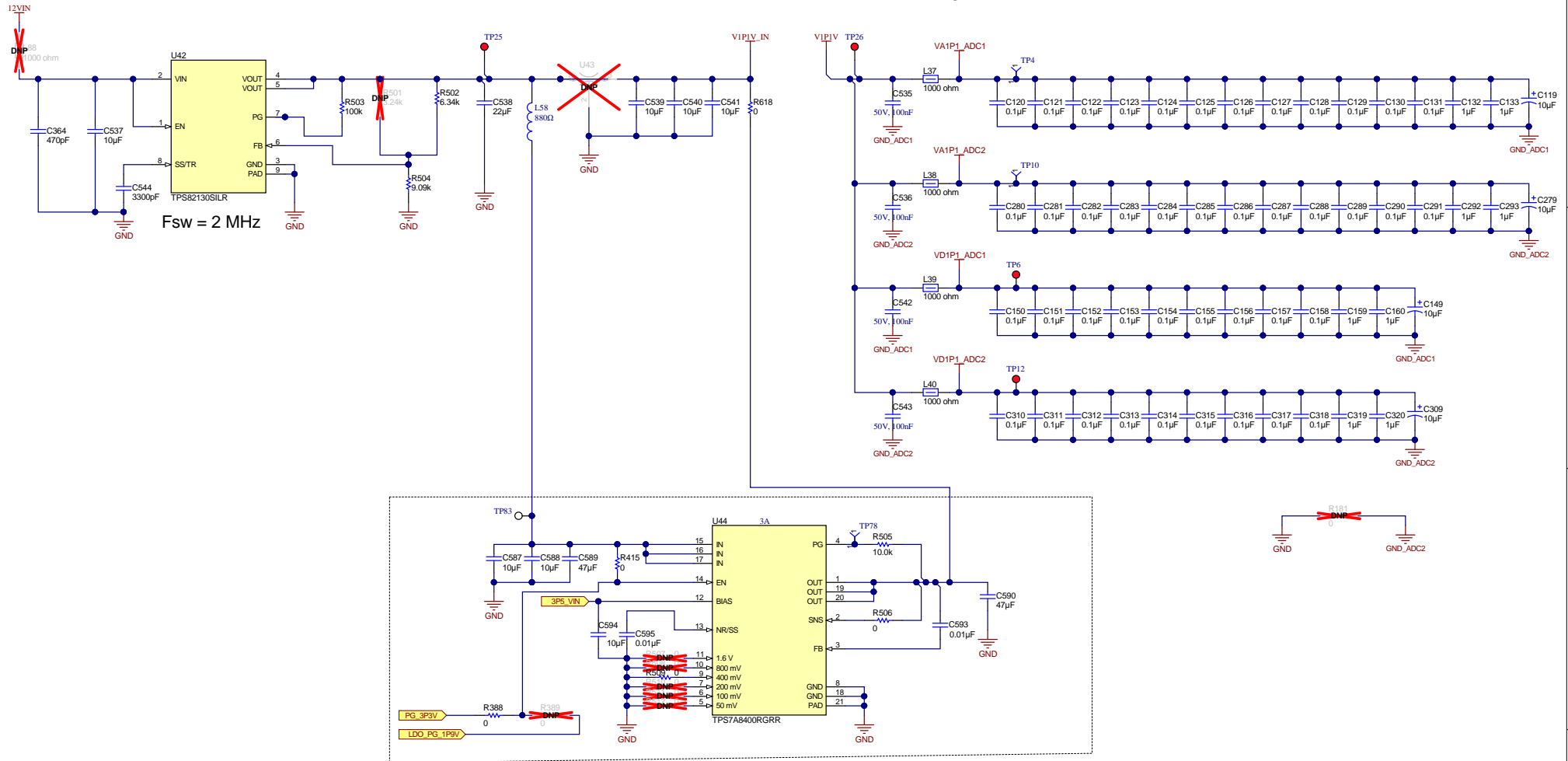
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
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Number: TIDA-010122 Rev: E3	Sheet Title: Power Supplies	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022_E3_wtih_TIDA-01027	Page 26 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_Power1_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	



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+1.1V POWER RAIL



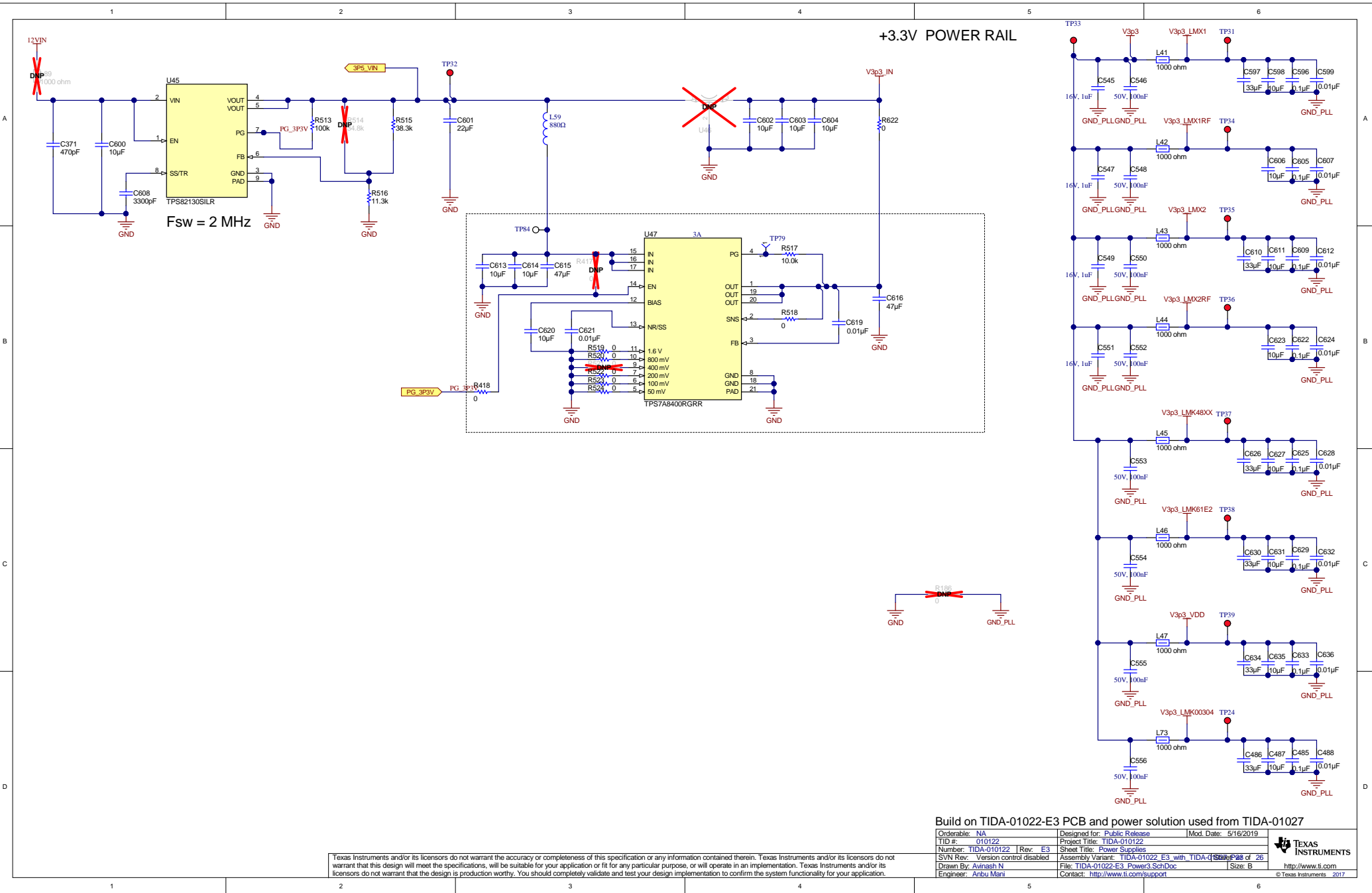
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Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
TID #: 010122	Project Title: TIDA-010122	
Number: TIDA-010122 Rev: E3	Sheet Title: Power Supplies	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027	Page 26 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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+3.3V POWER RAIL

Fsw = 2 MHz

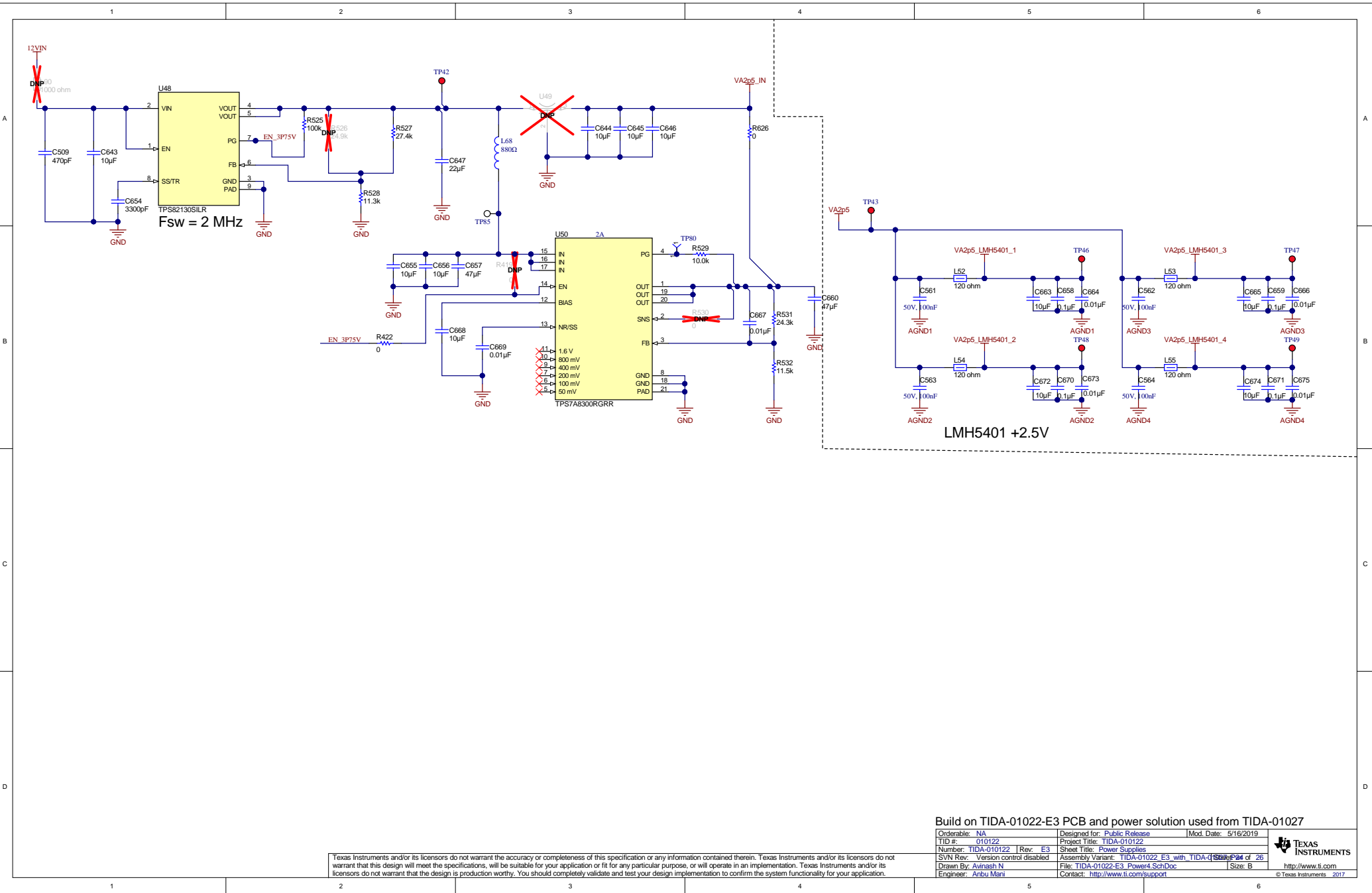
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
TID #: 010122	Project Title: TIDA-010122	
Number: TIDA-010122 Rev: E3	Sheet Title: Power Supplies	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3_w/lt_TIDA-01022-E3	Page 26 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_Power3_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

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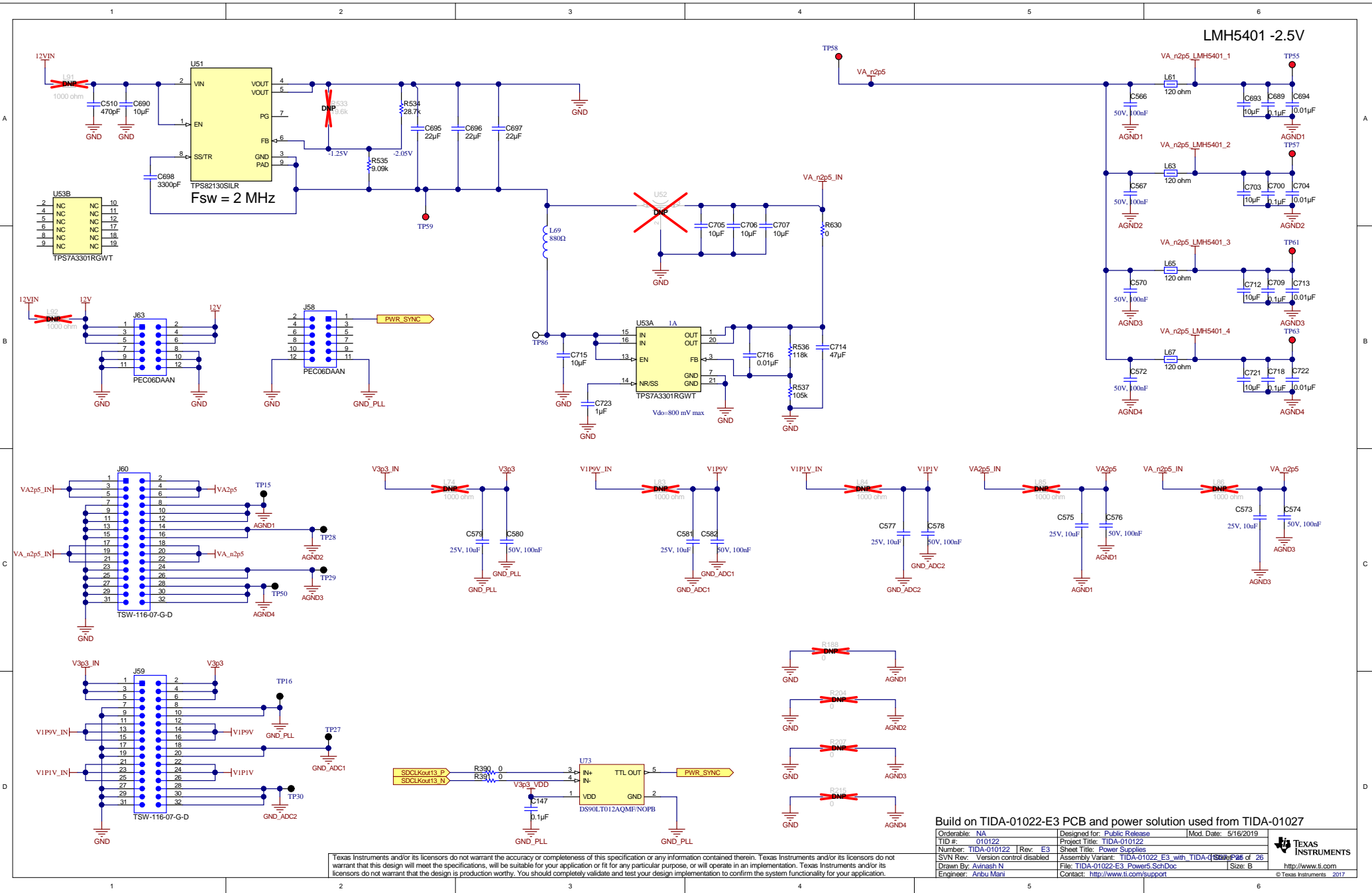
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Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
TID #: 010122	Project Title: TIDA-010122	
Number: TIDA-010122 Rev: E3	Sheet Title: Power Supplies	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3_w/ih_TIDA-01027	Page 4 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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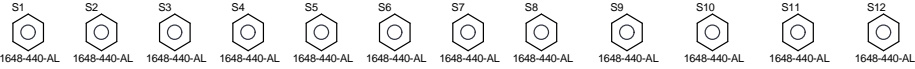


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Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
TID #: 010122	Project Title: TIDA-010122	
Number: TIDA-010122 Rev: E3	Sheet Title: Power Supplies	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3_w/lt_TIDA-01027-Pwr	
Drawn By: Avinash N	File: TIDA-01022-E3_Power5_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

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PCB Number: TIDA-010122
PCB Rev: E3

PCB LOGO
Logo1
PCB LOGO
Pb-Free Symbol
PCB LOGO
FCC disclaimer



Variant	Label Text
001	ChangeMe!
002	ChangeMe!

LBL1
PCB Label
Size: 0.65" x 0.20"

ZZ1
Label Assembly Note
This Assembly Note is for PCB labels only

ZZ2
Assembly Note
These assemblies are ESD sensitive, ESD precautions shall be observed.

ZZ3
Assembly Note
These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

ZZ4
Assembly Note
These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

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: 6/13/2019
TID #: 010122	Project Title: TIDA-010122	
Number: TIDA-010122 Rev: E3	Sheet Title: Hardware	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022_E3_with_TIDA-01027	Page 26 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_Hardware.SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	



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