

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: 5/15/2019
TID #: 010128	Project Title: TIDA-010128	
Number: TIDA-010128	Rev: E3	Sheet Title: Block Diagram
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027	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

A

B

C

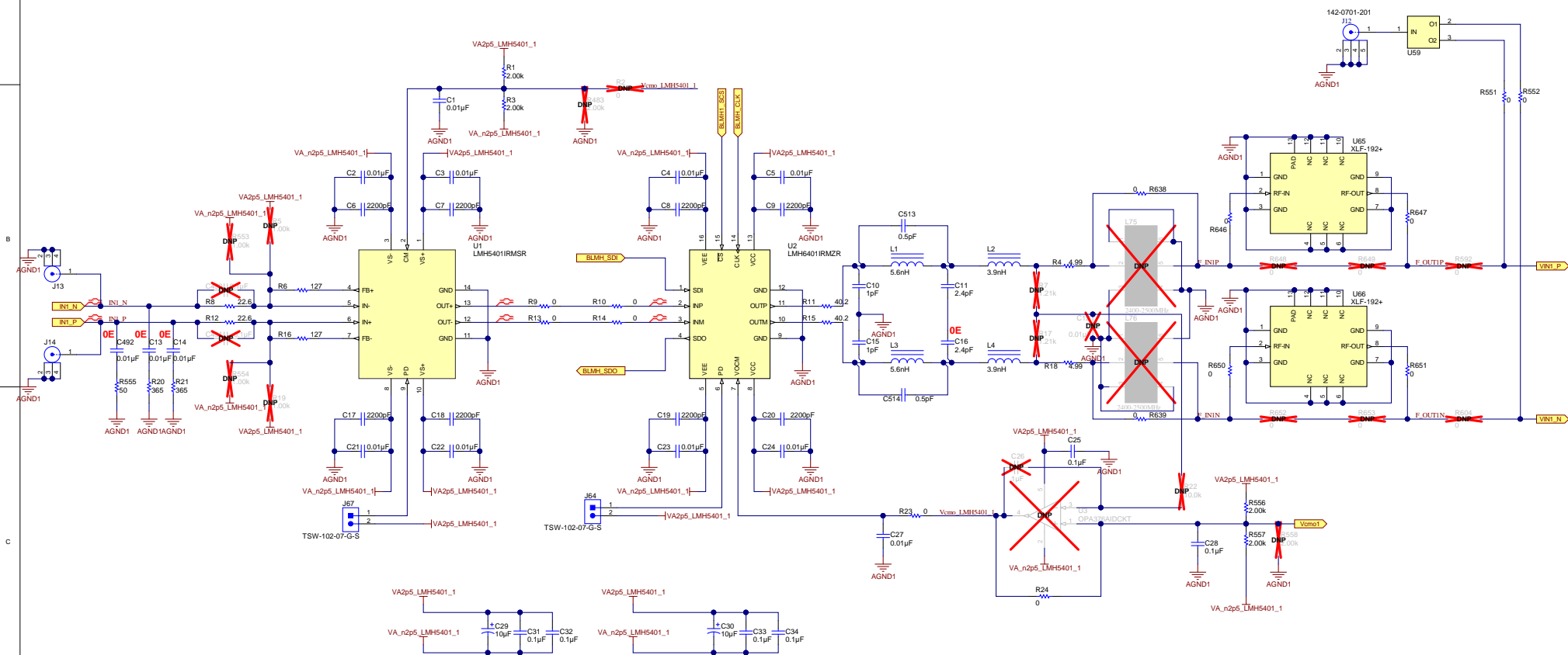
D

A

B

C

D



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: 3/18/2019
TID # 010128	Project Title: TIDA-010128	
Number: TIDA-010128	Rev: E3	Sheet Title: ADC ANALOG INP CH1
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027	File: TIDA-01022-E3 ADC ANALOG INP CH1 Sch.Dwg
Drawn By: Avinash N	Engineer: Arbu Maru	Size: B
Contact: http://www.ti.com/support		© Texas Instruments 2019

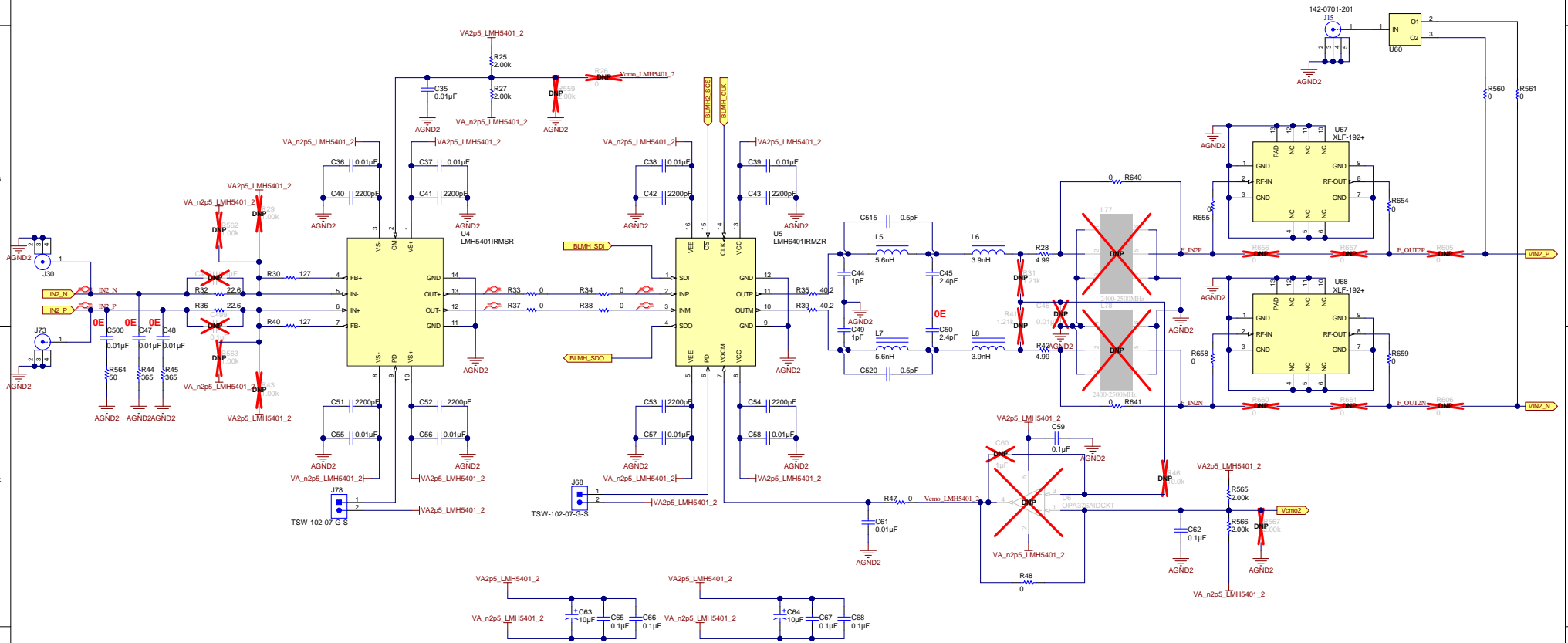
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1	2	3	4	5	6
A					A
B					B
C					C
D					D
1	2	3	4	5	6

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Orderable: NA	Designed for: Public Release	Mod. Date: 5/8/2018
TID #: 010128	Project Title: TIDA-010128	
Number: TIDA-010128 Rev: E3	Sheet Title:	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022 E3 with TIDA-010128	Sheet 1 of 3
Drawn By:	File: Sheet1.SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

ANALOG INPUT CH-2



Note:

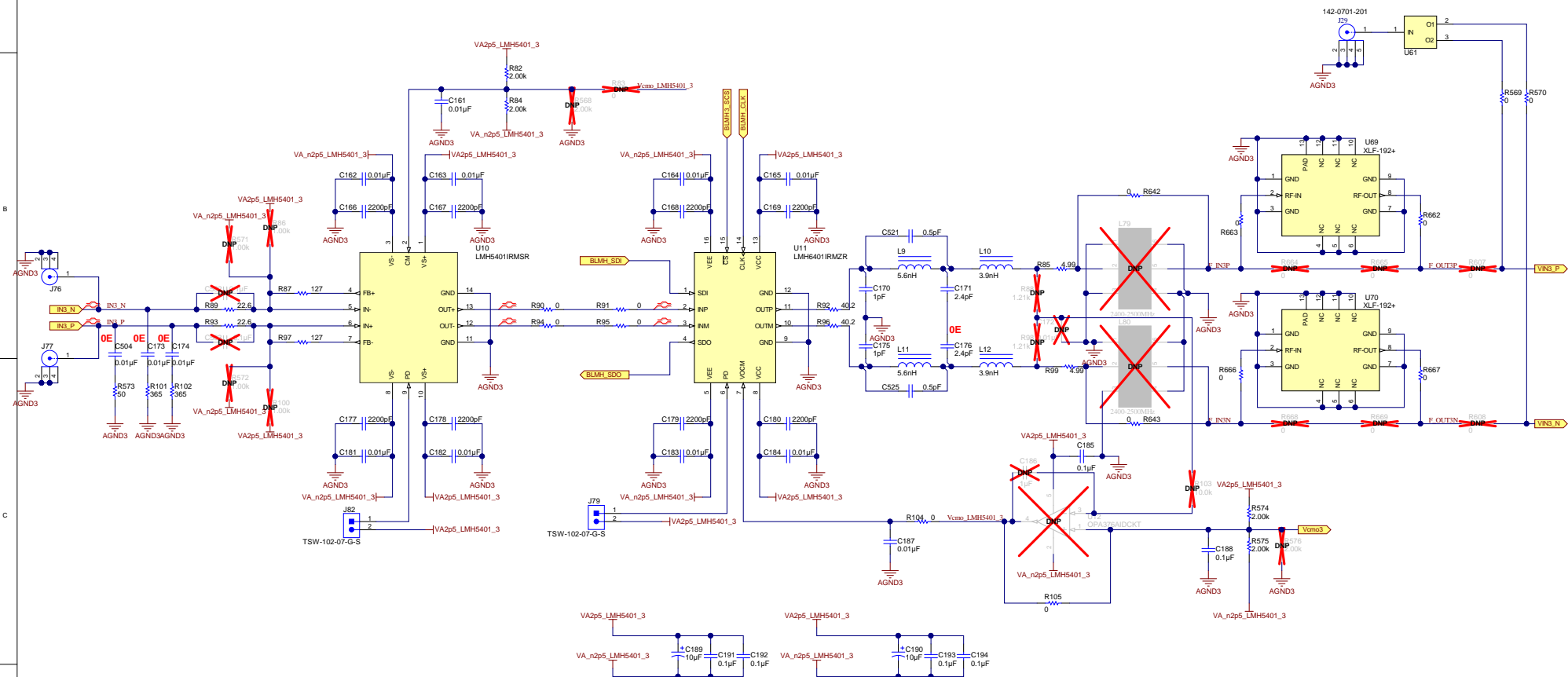
- 1) Replace capacitor (C500, C47) with 0E resistor for DC coupling 50 E impedance

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

Orderable: NA	Designed for: Public Release	Mod. Date: 3/5/2019
TID # 010128	Project Title: TIDA-010128	
Number: TIDA-010128	Rev: E3	Sheet Title: ADC-TID01022-CH2
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027	File: TIDA-01022-E3 ADC ANALOG INP CH2 Sch.Dwg
Drawn By: Avinash N	Engineer: Arbu Mala	Size: B
Contact: http://www.ti.com/support		© Texas Instruments 2019

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ANALOG INPUT CH-3



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

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Orderable: NA	Designed for: Public Release	Mod. Date: 3/5/2019
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Orderable: NA	Designed for: PUBLIC RELEASE	Mod. Date: 3/3/2019
TID #: 010128	Project Title: TIDA-010128	

Number: TIDA-010128	Rev: E3	Sheet Title: ADC12DJx00_CH3
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SVN Rev: Version control disabled	Assembly Variant: TIDA-01022_E3_with_TIDA-01022P4	Page 26 of 26
Drawn By: Arijesh N	File: TIDA_01022_E3_ADC_ANALOG_INB_CH3_SchD_01022P4	http://www.ti.com

Drawn By: Avinash N	File: TIDA-01022-E3_ADC_ANALOG_INP_CH3.SchDoc	Size: B	http://www.ti.com
Engineer: Anbu Mani	Contact: http://www.ti.com/support	© Texas Instruments	

4 | <http://www.ti.com/omap3> | 5

2	3	
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ANALOG INPUT CH-4

A

B

C

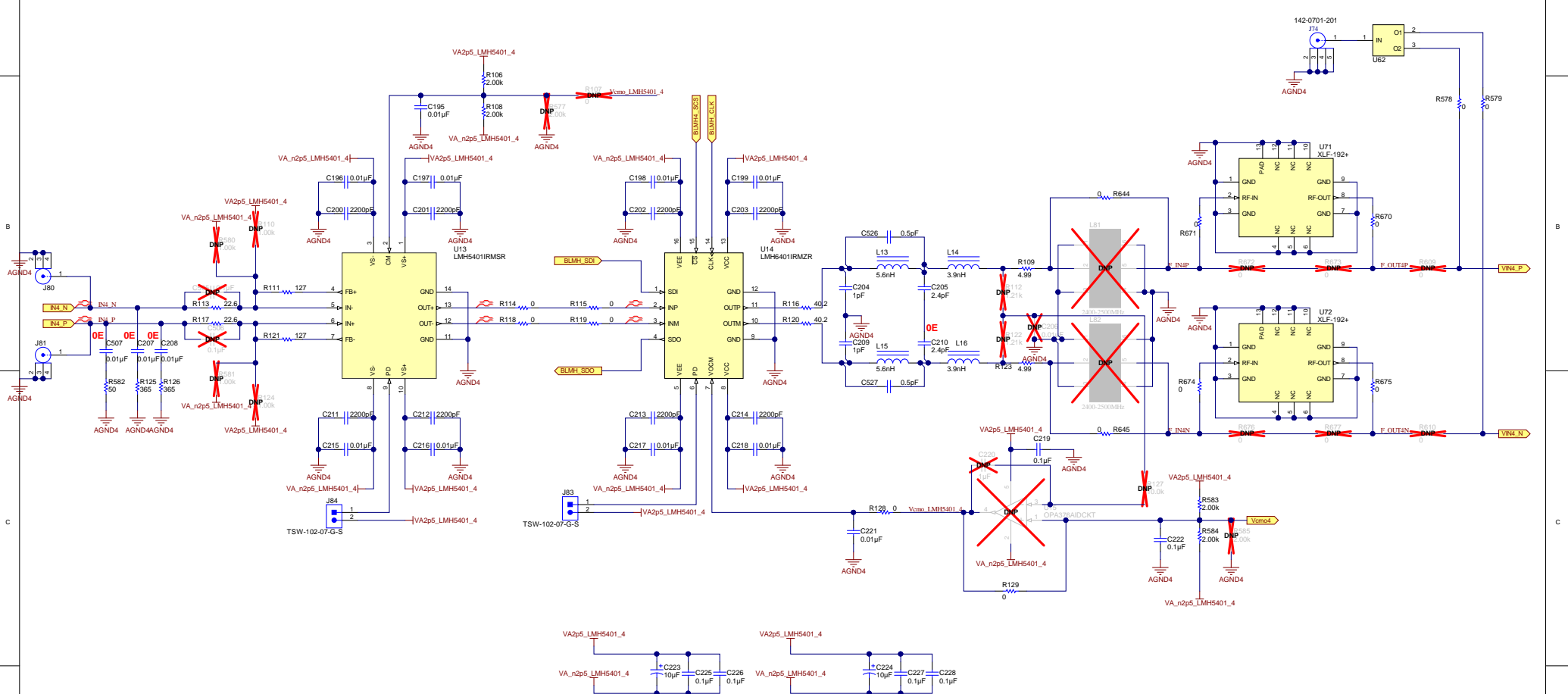
D

A

B

C

D



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: 3/5/2019
TID # 010128	Project Title: TIDA-010128	
Number: TIDA-010128	Rev: E3	Sheet Title: ADC-TID01022-CH4
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027	File: TIDA-01022-E3_ADC_ANALOG_INP_CH4_Sch.Dwg
Drawn By: Avinash N	Engineer: Avinash N	Size: B
Contact: http://www.ti.com/support		

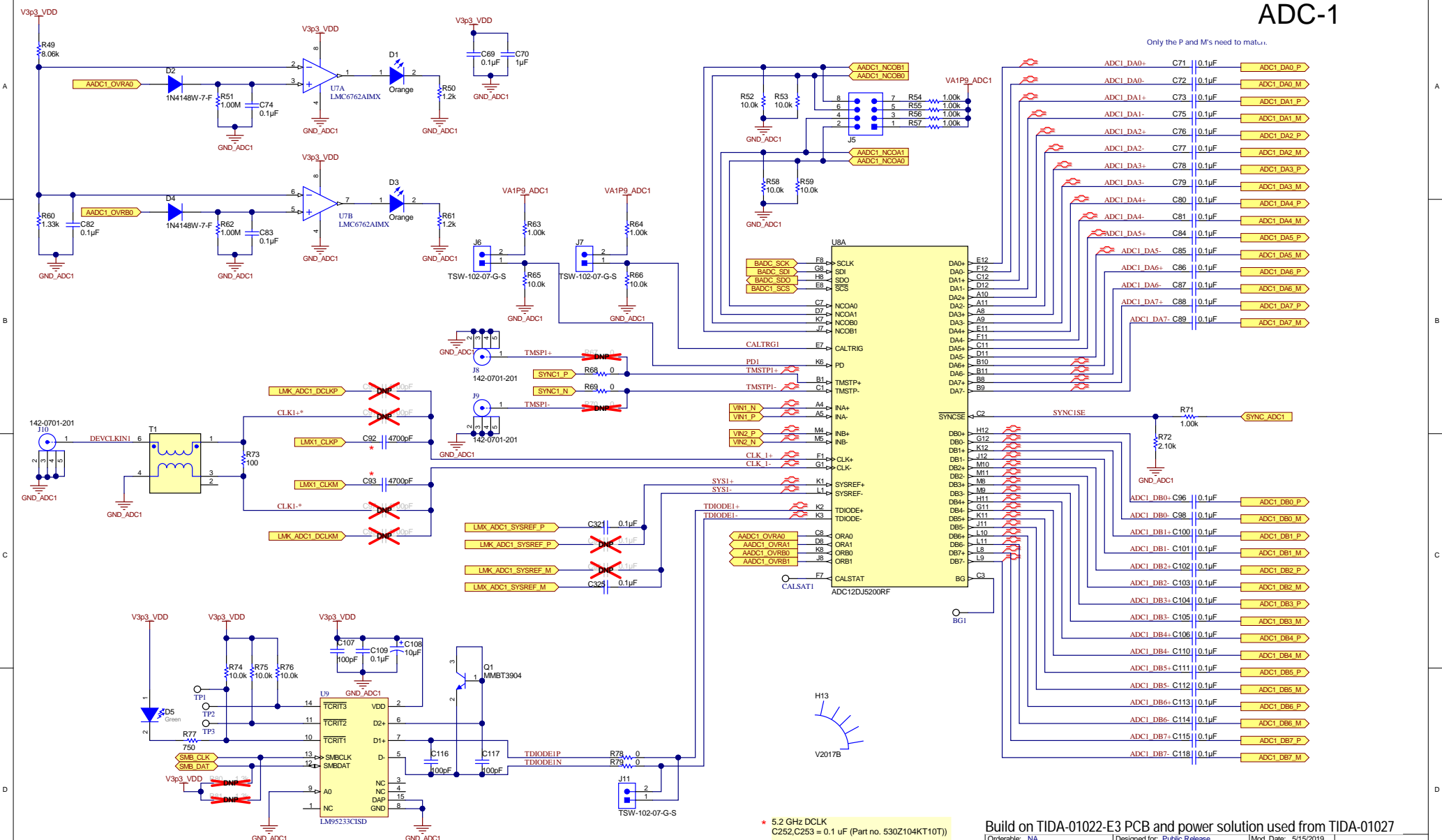


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ADC-1

Only the P and M's need to match.



5.2 GHz DCLK
C252,C253 = 0.1 uF (Part no. 530Z104KT10T)

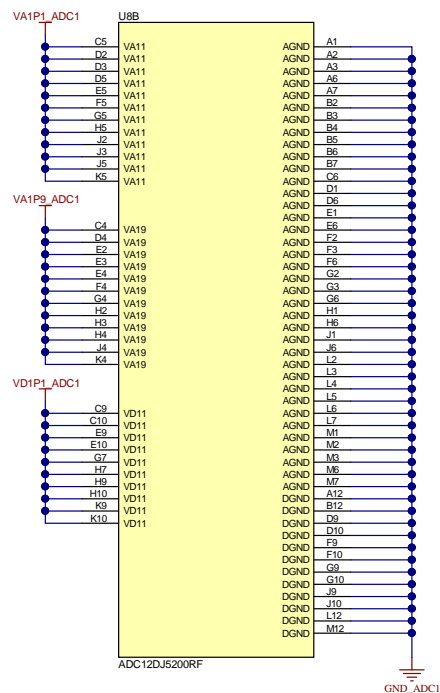
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 5/15/2019
TID #: 010128	Project Title: TIDA-010128	
Number: TIDA-010128 Rev: E3	Sheet Title: ADC12DJ5200F_1	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01022-E3	Page 1 of 26
Drawn By: Avinash N	File: TIDA-01022-E3_ADC12DJ5200F_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

Orderable: NA	Designed for: Public Release	Mod. Date: 3/18/2019
TID #: 010128	Project Title: TIDA-010128	
Number: TIDA-010128 Rev: E3	Sheet Title: ADC12DJ5200 1PWR	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027	of 26
Drawn By: Avinash N	File: TIDA-01022-E3_ADC12DJ5200_1PWR_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

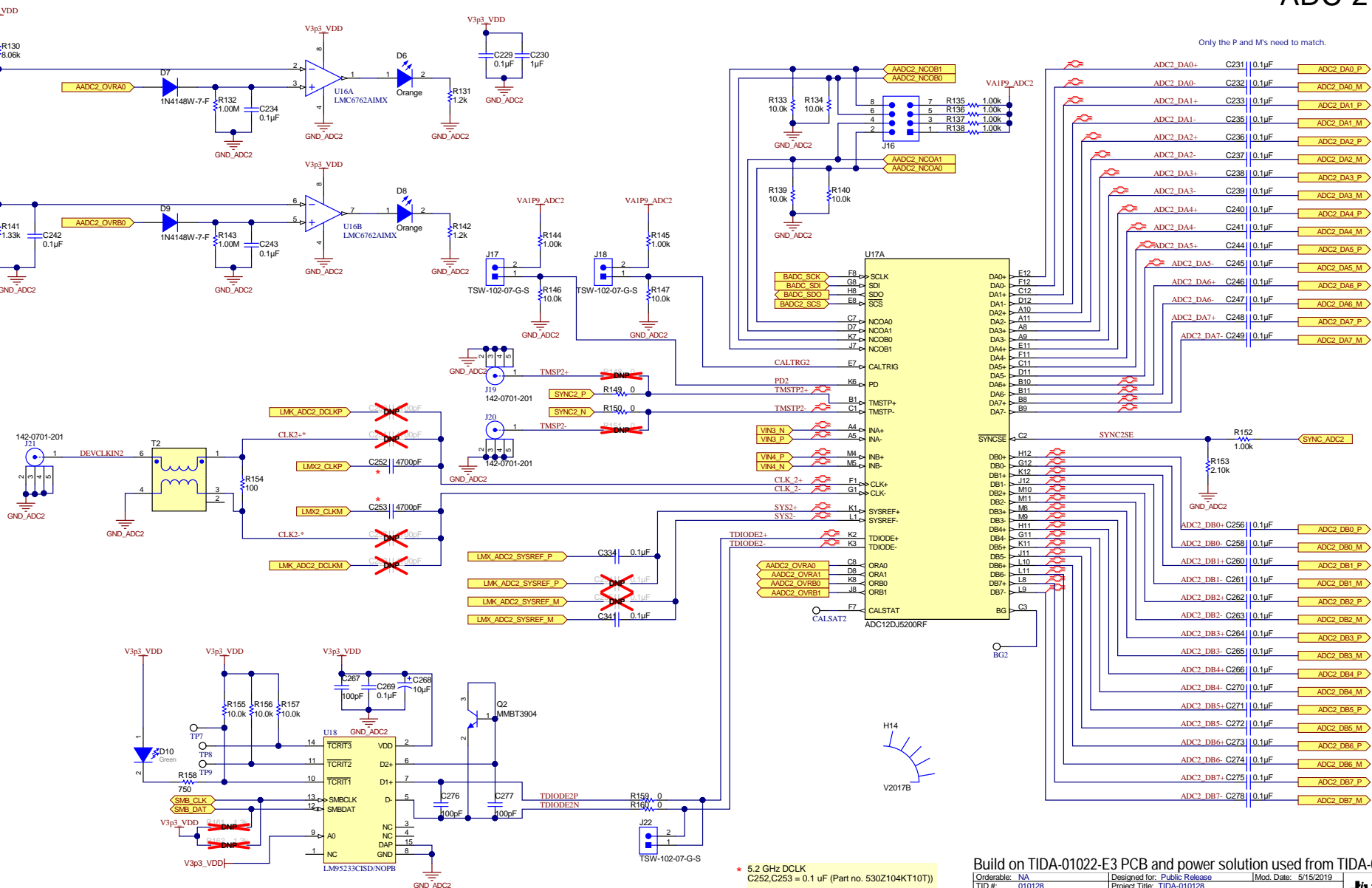


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ADC-2

Only the P and M's need to match.



* 5.2 GHz DCLK
C252, C253 = 0.1 uF (Part no. 5302104KT10T)

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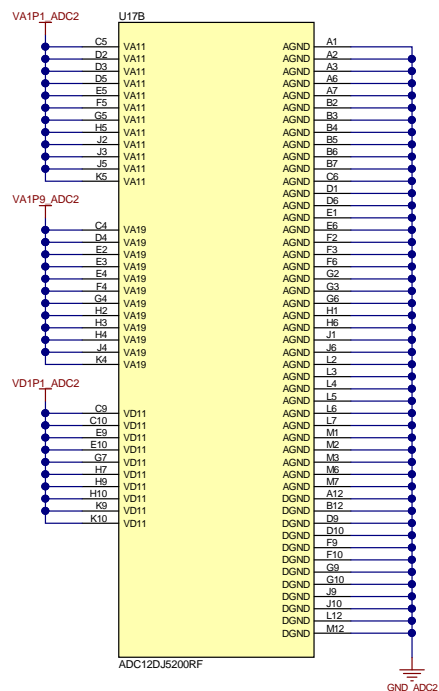
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 5/15/2019
TID #: 010128	Project Title: TIDA-010128	
Number: TIDA-010128 Rev: E3	Sheet Title: ADC12DJ5000_2	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01022-E3	of 26
Drawn By: Avinash N	File: TIDA-01022-E3 ADC12DJ5000_2 SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	



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ADC-2

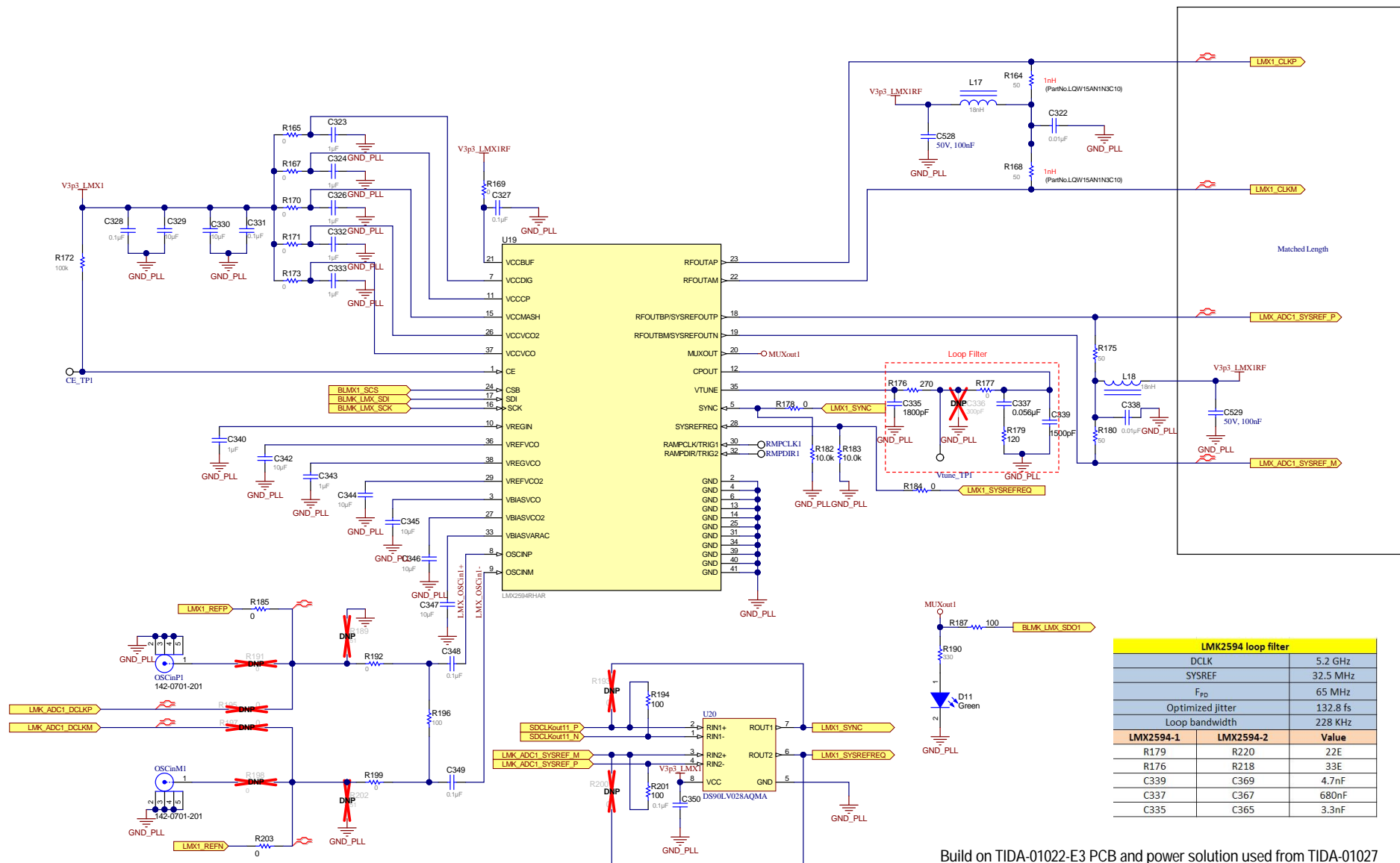


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Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 3/18/2019
TID #: 010128	Project Title: TIDA-010128	
Number: TIDA-010128 Rev: E3	Sheet Title: ADC12DJ5200 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_ADC12DJ5200_2PWR_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

LMX2594 -1



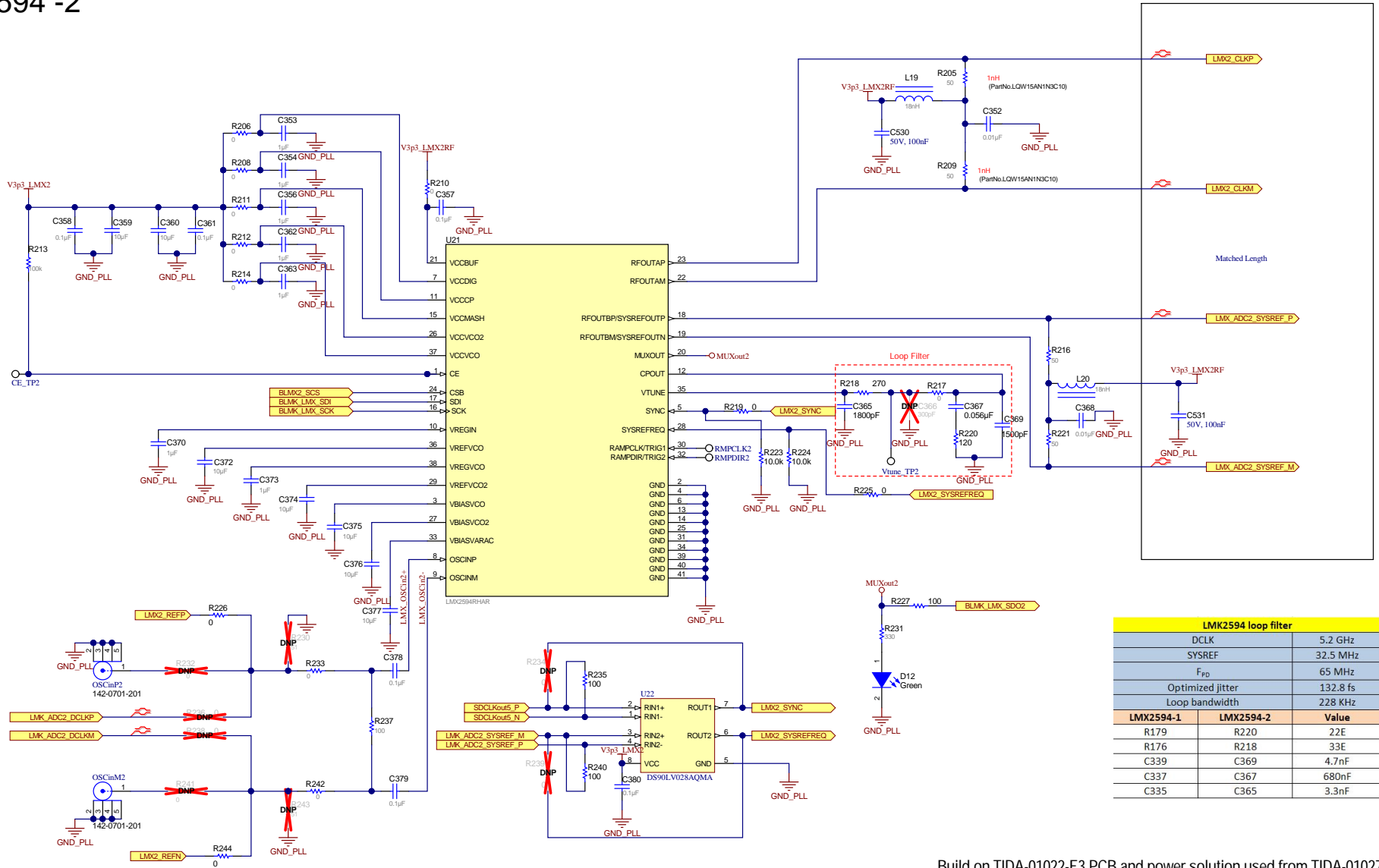
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

LMX2594 loop filter		
DCLK		5.2 GHz
SYSREF		32.5 MHz
F _{PD}		65 MHz
Optimized jitter		132.8 fs
Loop bandwidth		228 KHz
LMX2594-1	LMX2594-2	Value
R179	R220	22E
R176	R218	33E
C339	C369	4.7nF
C337	C367	680nF
C335	C365	3.3nF

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Orderable NA		Designed for: <u>Public Release</u>		Mod. Date: 5/15/2019	
TID #: <u>010128</u>		Project Title: <u>TIDA-010128</u>		 TEXAS INSTRUMENTS	
Number: <u>TIDA-010128</u> Rev: <u>E3</u>		Sheet Title: <u>TIDA02594R</u>			
SVN Rev: Version control disabled		Assembly Variant: <u>TIDA-01022 E3 with TIDA-01022</u> of 26		http://www.ti.com	
Drawn by: <u>Avinash N</u>		File: <u>TIDA-01022 E3 LMX2594R 1 SchDoc</u>		Size: B	
Engineer: <u>Anbu Mani</u>		Contact: <u>http://www.ti.com/support</u>		© Texas Instruments 2017	

LMX2594 -2



LMX2594 loop filter		
DCLK		5.2 GHz
SYSREF		32.5 MHz
F _{PD}		65 MHz
Optimized jitter		132.8 fs
Loop bandwidth		228 KHz
LMX2594-1	LMX2594-2	Value
R179	R220	22E
R176	R218	33E
C339	C369	4.7nF
C337	C367	680nF
C335	C365	3.3nF

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

Orderable: NA
 TID #: 010128
 Number: TIDA-010128 | Rev: E3
 SVN Rev: Version control disabled
 Drawn By: Avinash N
 Engineer: Anbu Mani

Designed for: Public Release
 Project Title: TIDA-010128
 Sheet Title: LMX2594R
 Assembly Variant: TIDA-01022-E3 with TIDA-01022-E3
 File: TIDA-01022-E3_LMX2594R_2.SchDoc
 Contact: <http://www.ti.com/support>

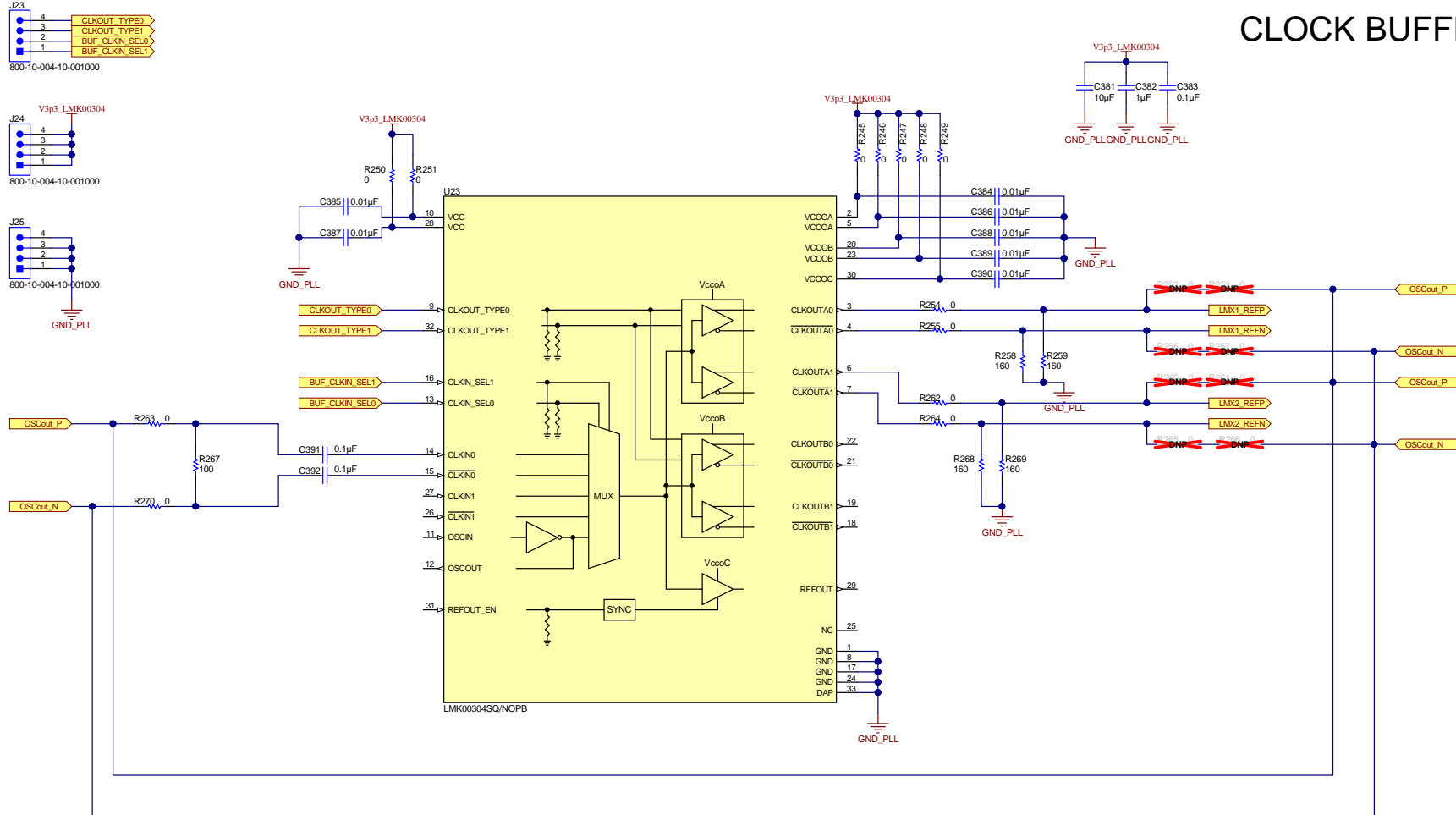
Mod. Date: 5/15/2019
 Size: B



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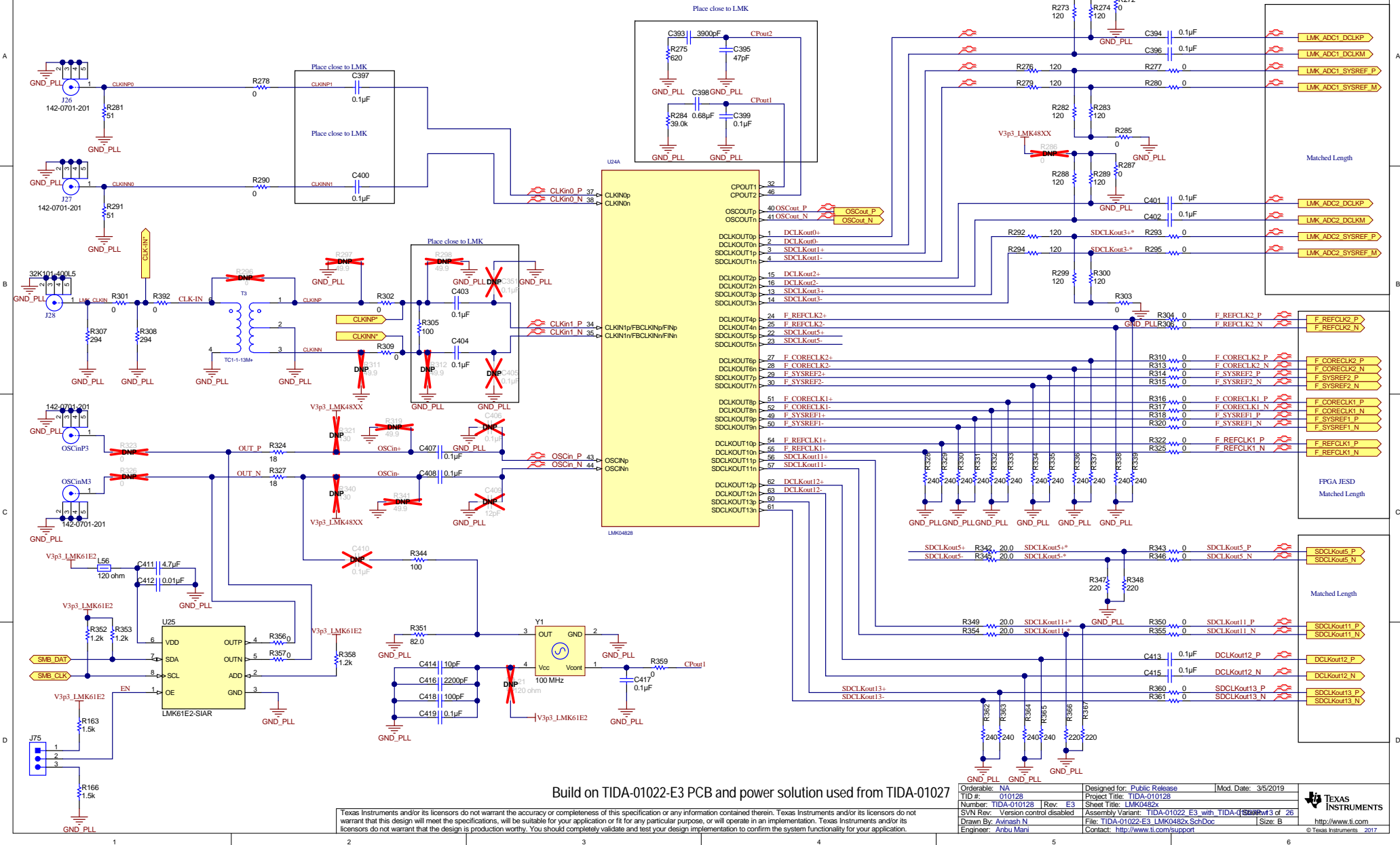
CLOCK BUFFER/MUX



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

Orderable: NA	Designed for: Public Release	Mod. Date: 3/5/2019
TID #: 010128	Project Title: TIDA-010128	
Number: TIDA-010128 Rev: E3	Sheet Title: LMK00304_Buffer	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3_w/with_TIDA-01027-E3	Size: B
Drawn By: Avinash N	File: TIDA-01022-E3_LMK00304_Buffer_SchDoc	
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

LMK 04828/32

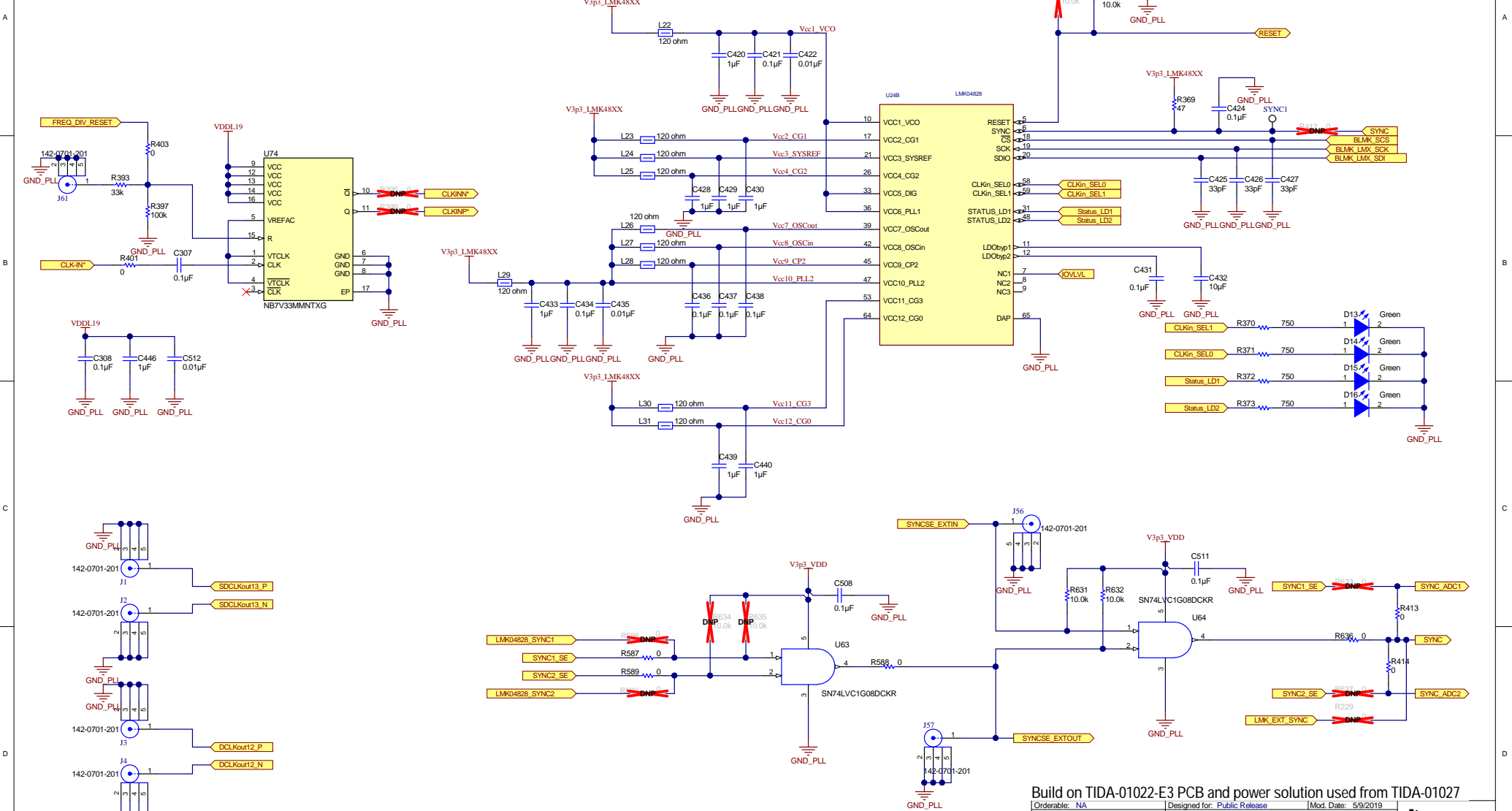


Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

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Orderable: NA	Designed for: Public Release	Mod. Date: 3/5/2019	 TEXAS INSTRUMENTS www.ti.com © Texas Instruments 2017
TID #: 010128	Project Title: TIDA-010128		
Number: TIDA-010128 Rev. E3	Sheet Title: UMK0482x		
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022 E3 with TIDA-010128	Page 1 of 26	
Drawn by: Avinash N	File: TIDA-01022-E3 UMK0482x_SchDoc	Size: B	
Engineer: Anbu Mani	Contact: http://www.ti.com/support		

LMK 04828/32

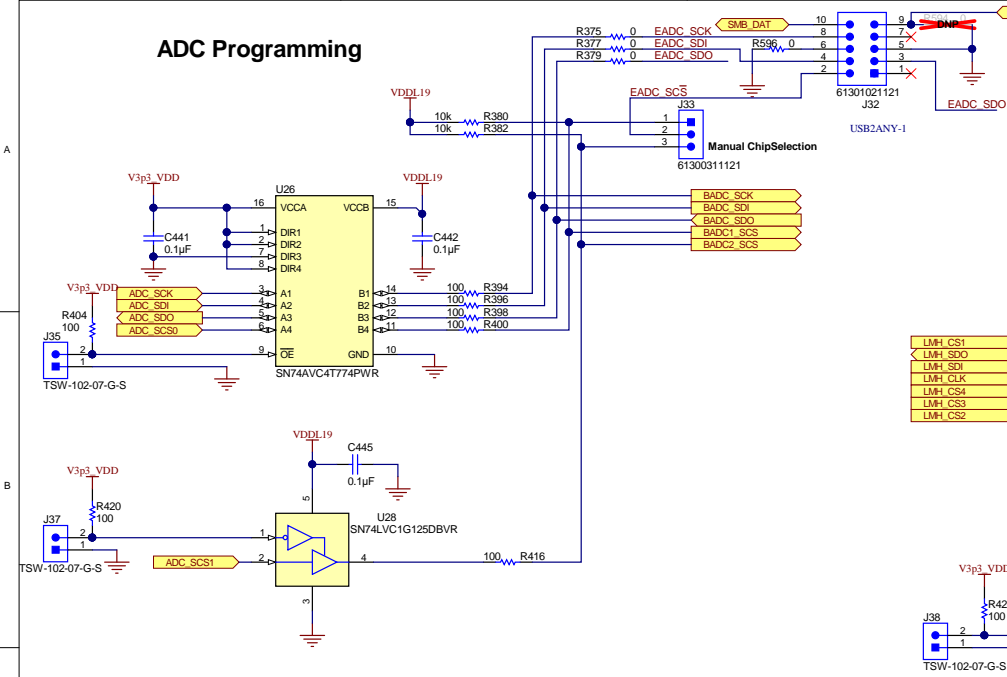


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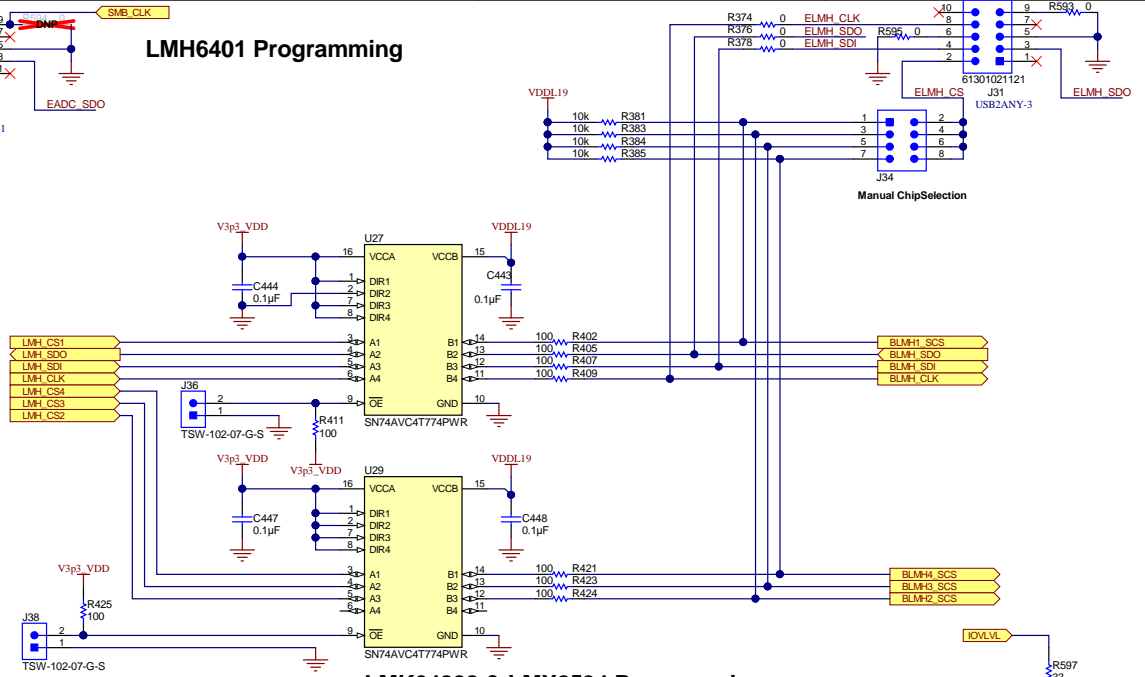
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027			
Orderable: NA	Designed for: Public Release	Mod. Date: 5/9/2019	
TID #: 010128	Project Title: TIDA-010128		
Number: TIDA-010128 Rev: E3	Sheet Title: LMK0482x_PWR		
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027	Page 4 of 26	
Drawn By: Avinash N	File: TIDA-01022-E3_LMK0482x_PWR.SchDoc	Size: B	
Engineer: Anbu Mani	Contact: http://www.ti.com/support		



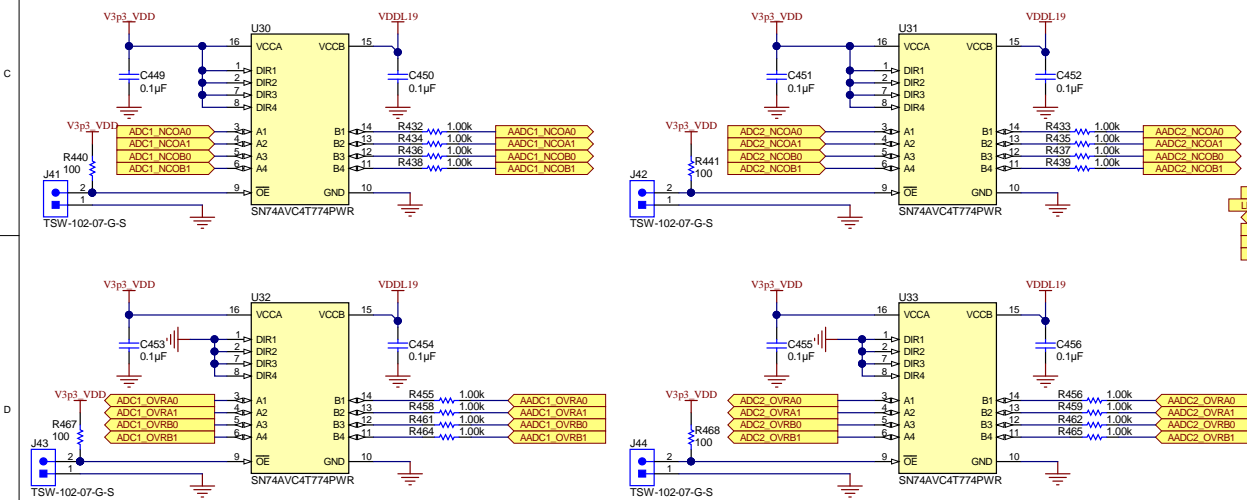
ADC Programming



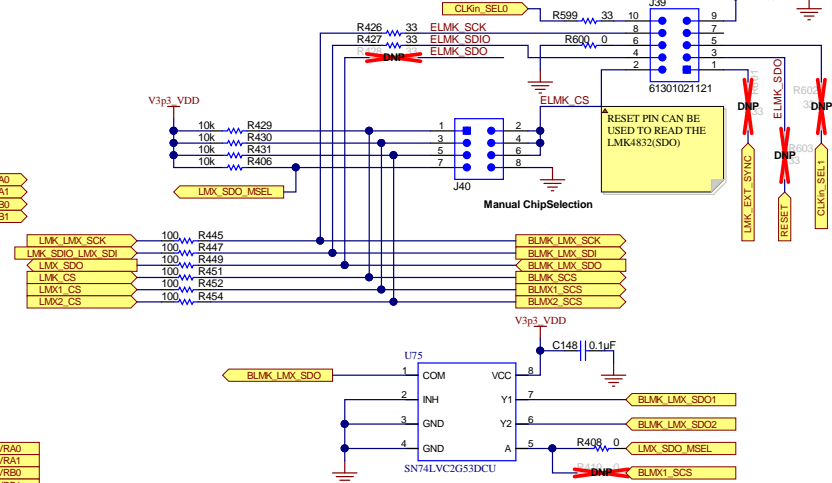
LMH6401 Programming



ADC1 & 2 OverRange & NCO Selection



LMK04828 & LMX2594 Programming



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

Orderable: NA
 TID #: 010128
 Number: TIDA-010128 | Rev: E3
 SVN Rev: Version control disabled
 Drawn By: Avinash N
 Engineer: Anbu Mani

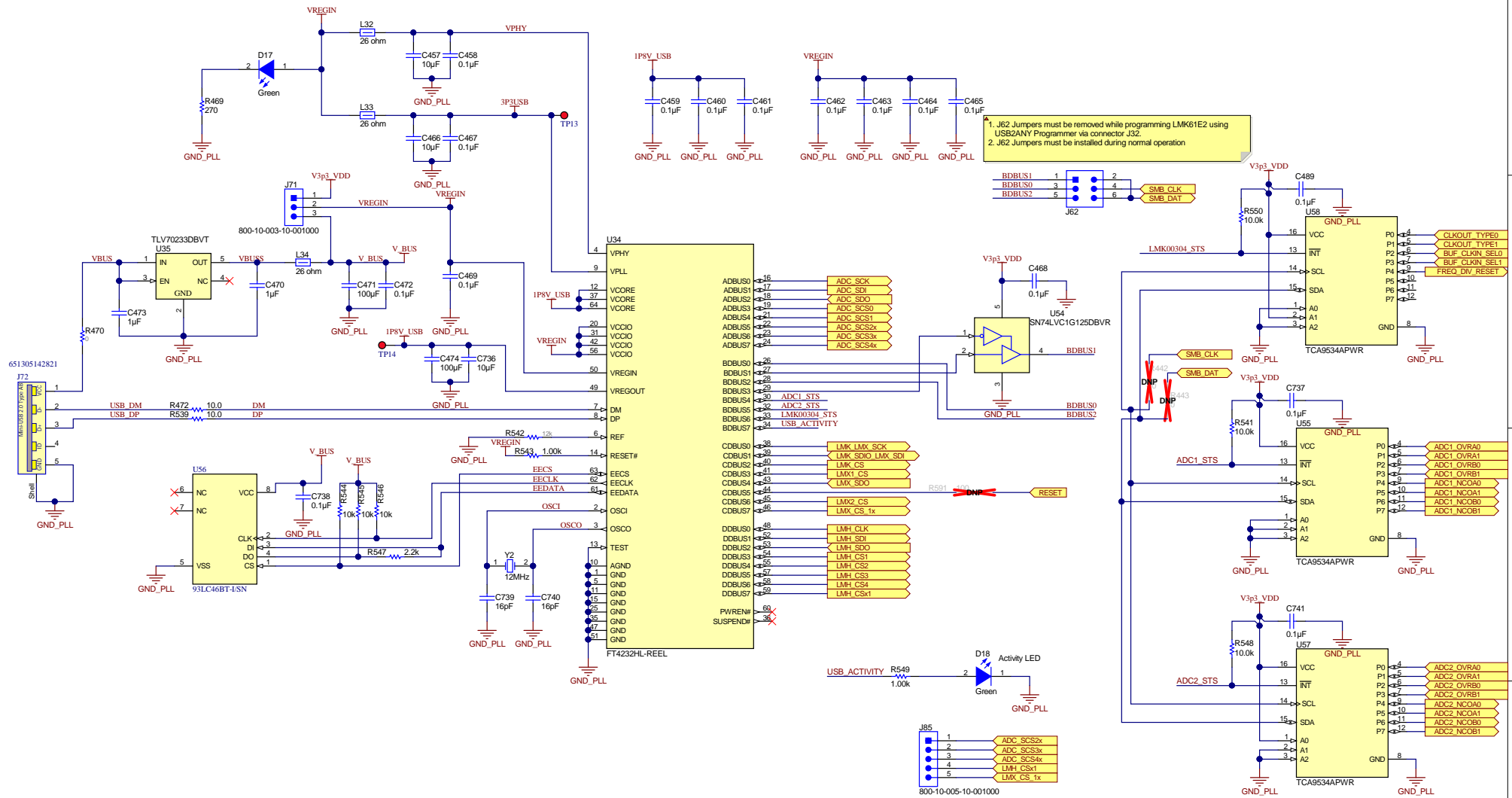
Designed for: Public Release
 Project Title: TIDA-010128
 Sheet Title: Programming for ADC, LMK, LMX
 Assembly Variant: TIDA-01022-E3 with TIDA-01027-E3
 File: TIDA-01022-E3 Programming for ADC, LMK, LMX BehBoc
 Contact: <http://www.ti.com/support>

Mod. Date: 3/5/2019



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USB to SPI Interface



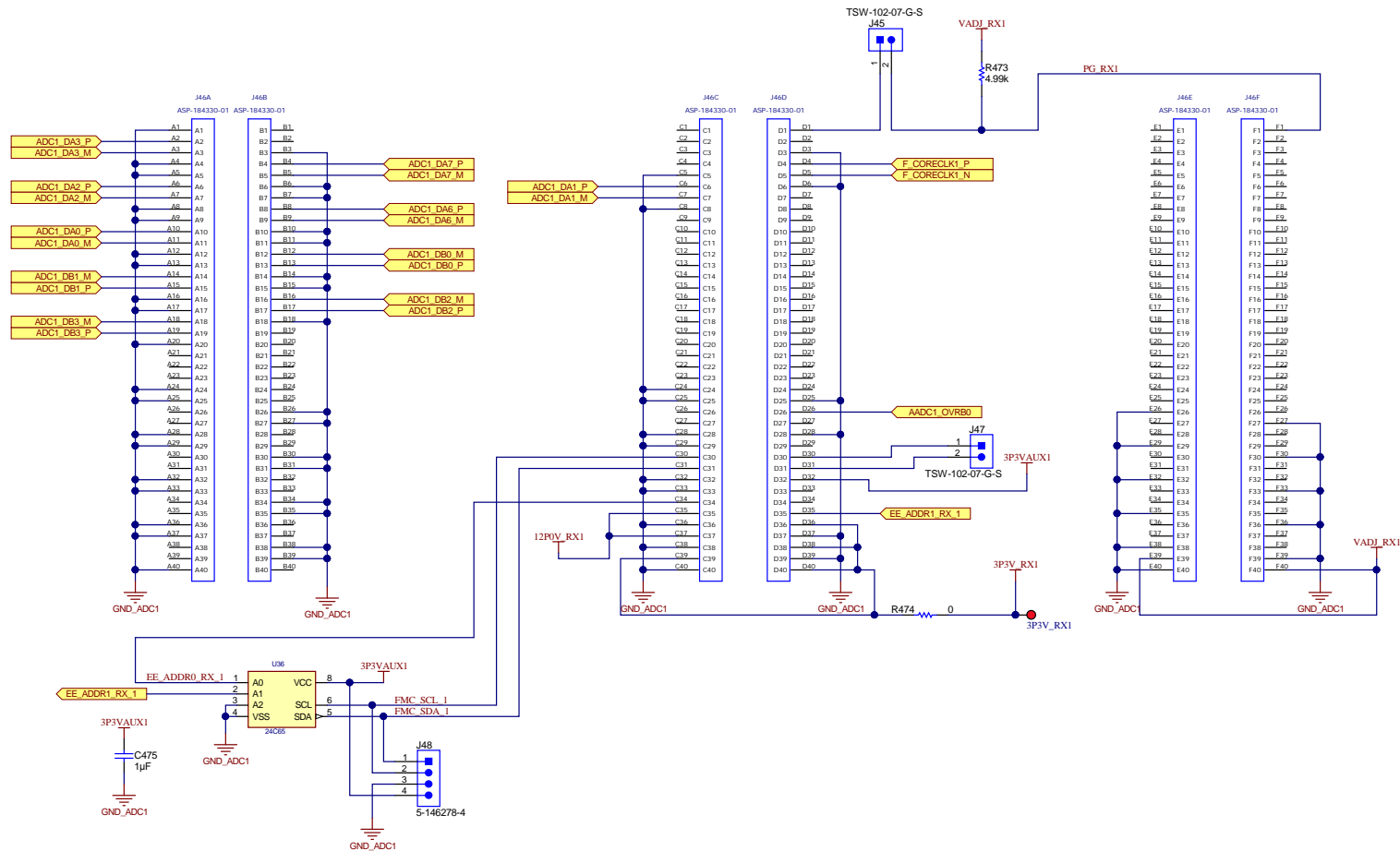
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 3/5/2019
TID #: 010128	Project Title: TIDA-010128	
Number: TIDA-010128	Rev. E3	Sheet Title: USB
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022 E3 with TIDA-010128	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



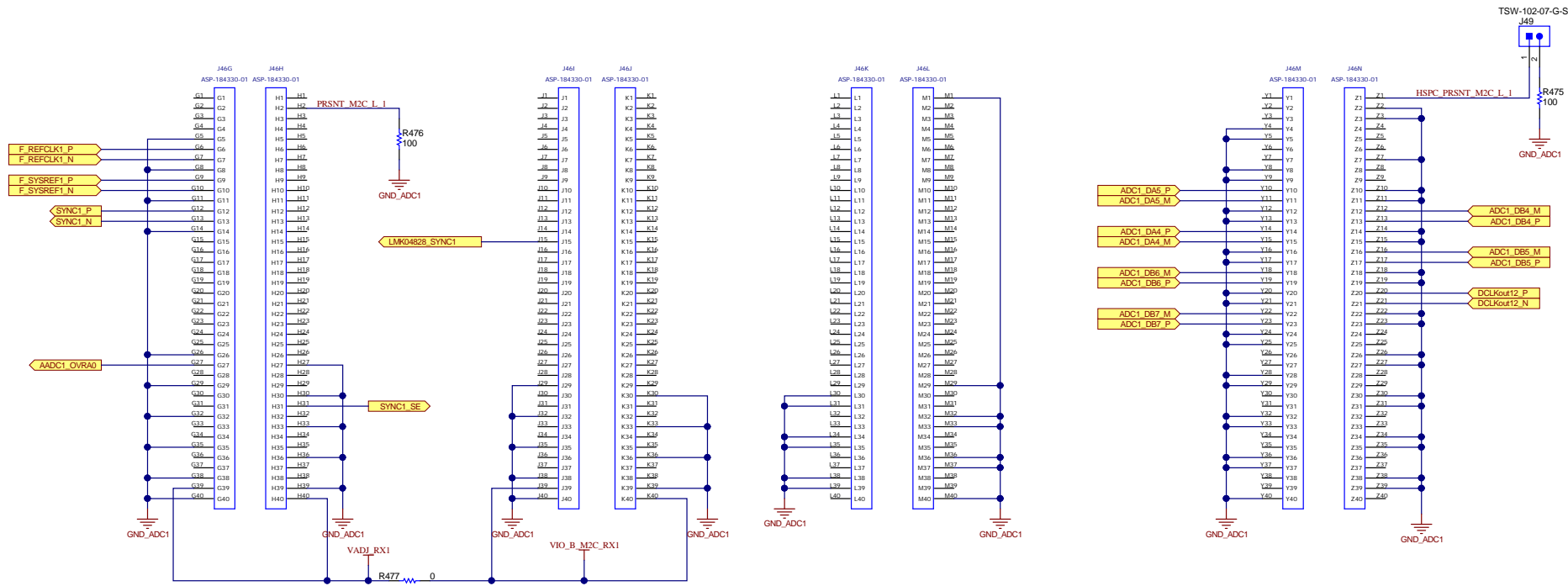
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 3/5/2019
TID #: 010128	Project Title: TIDA-010128	
Number: TIDA-010128	Rev: E3	Sheet Title: FMC+CONN1
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027-E3	Size: B
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



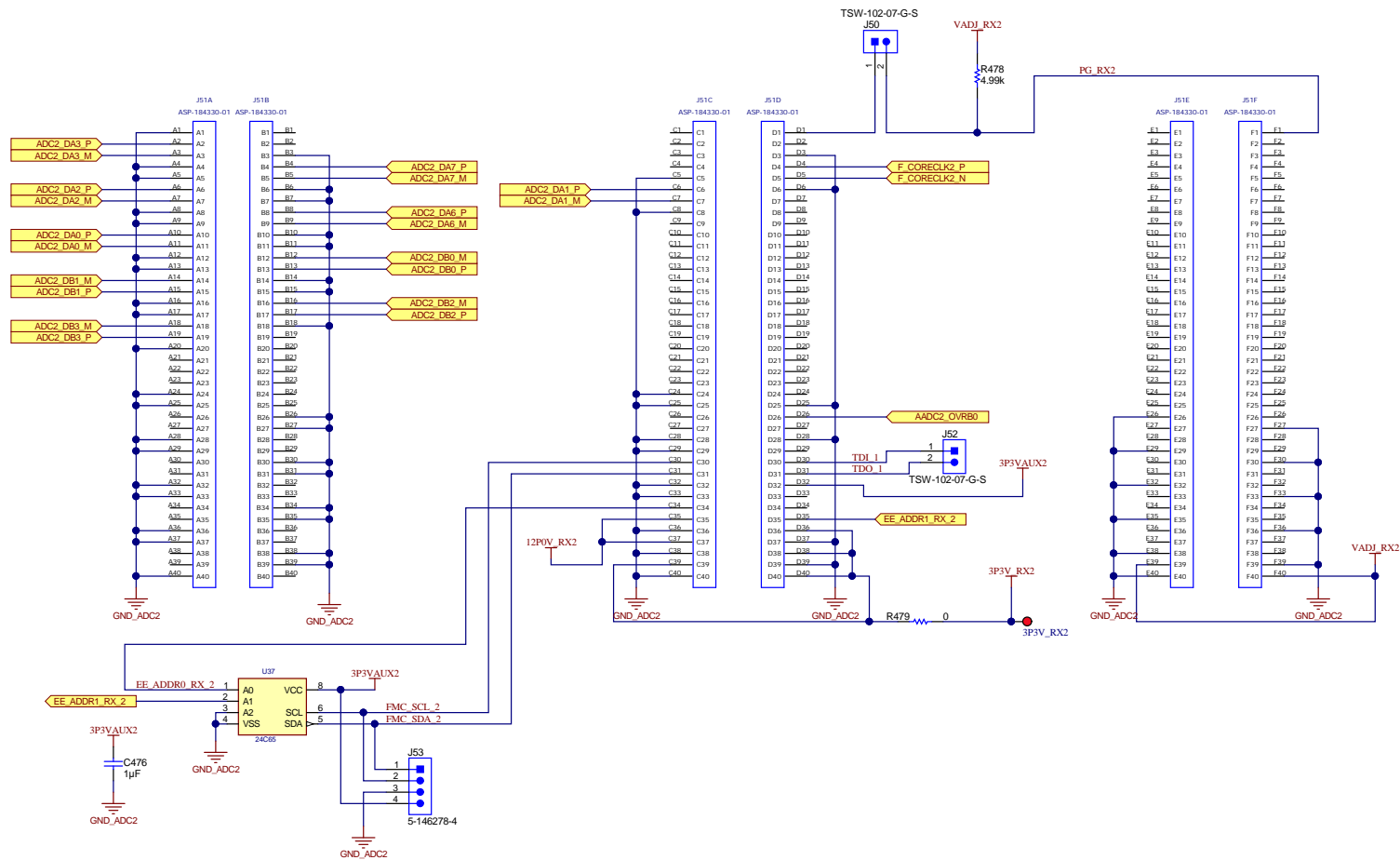
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 3/5/2019
TID #: 010128	Project Title: TIDA-010128	
Number: TIDA-010128 Rev: E3	Sheet Title: FMC+CONN1	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027	26 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



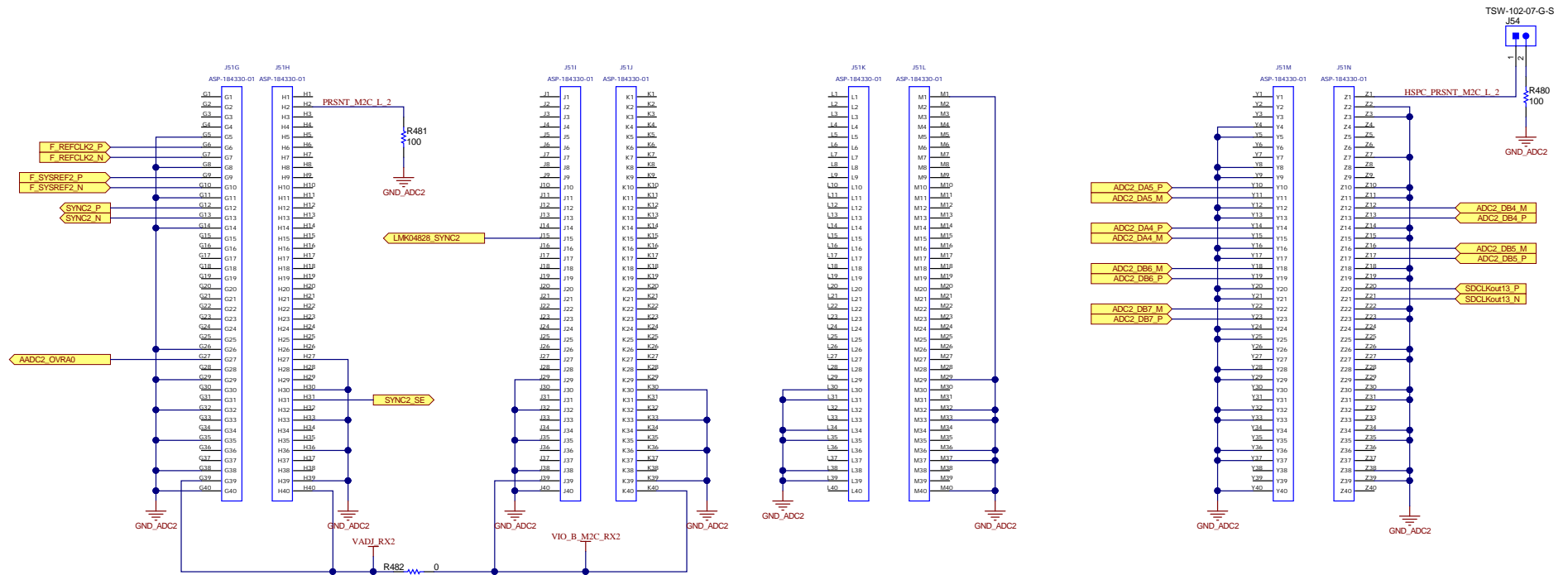
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 3/5/2019
TID #: 010128	Project Title: TIDA-010128	
Number: TIDA-010128 Rev: E3	Sheet Title: FMC+CONN2	
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_FMC+CONN2_1.SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	




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ADC1 FMC+_2 Connector



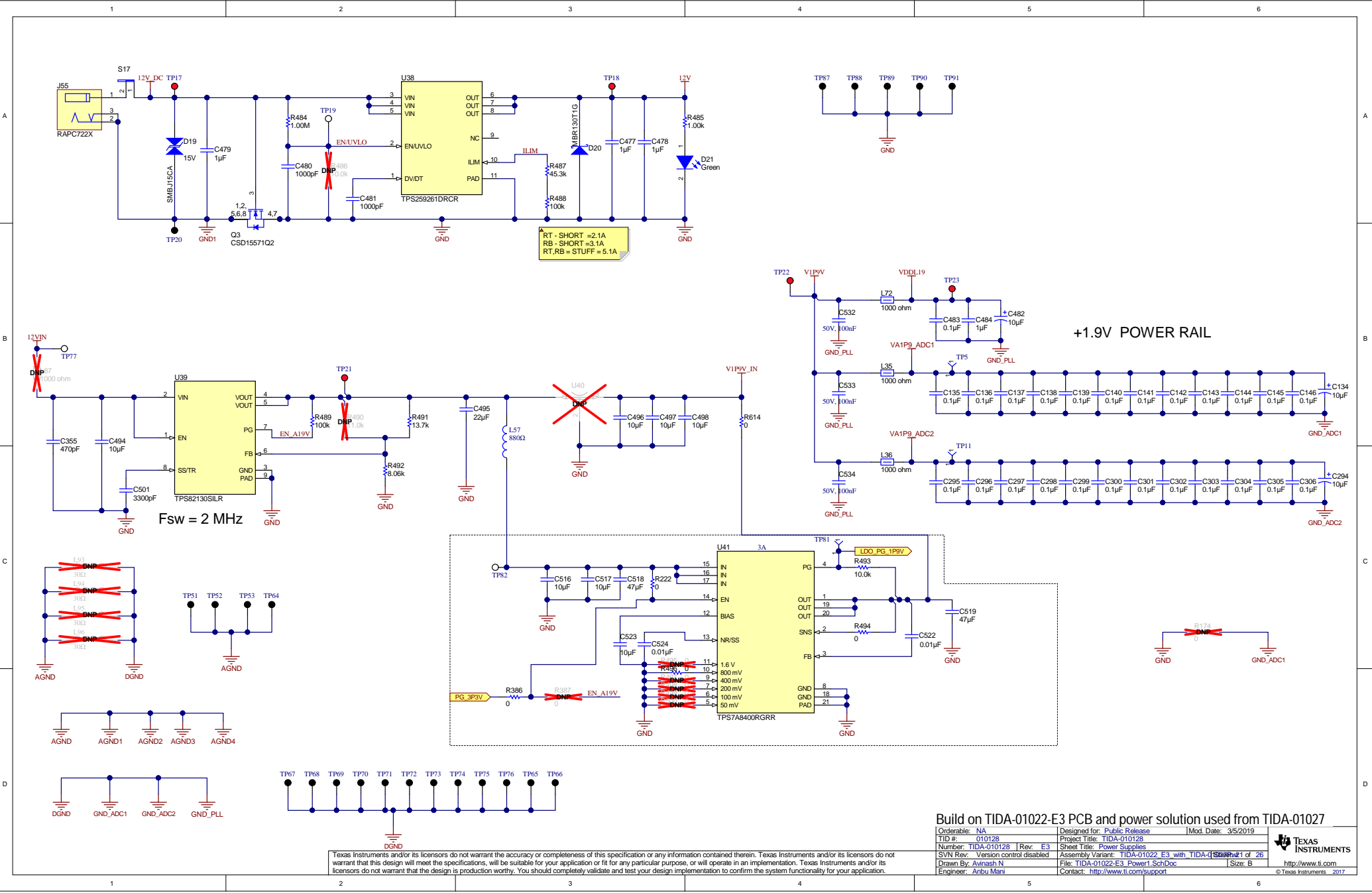
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 3/5/2019
TIDA-010218	Project Title: TIDA-010218	
Number: TIDA-010218 [Rev. E3]	Sheet Title: FMC+CONN2	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022 E3 with TIDA-010218	Sheet # 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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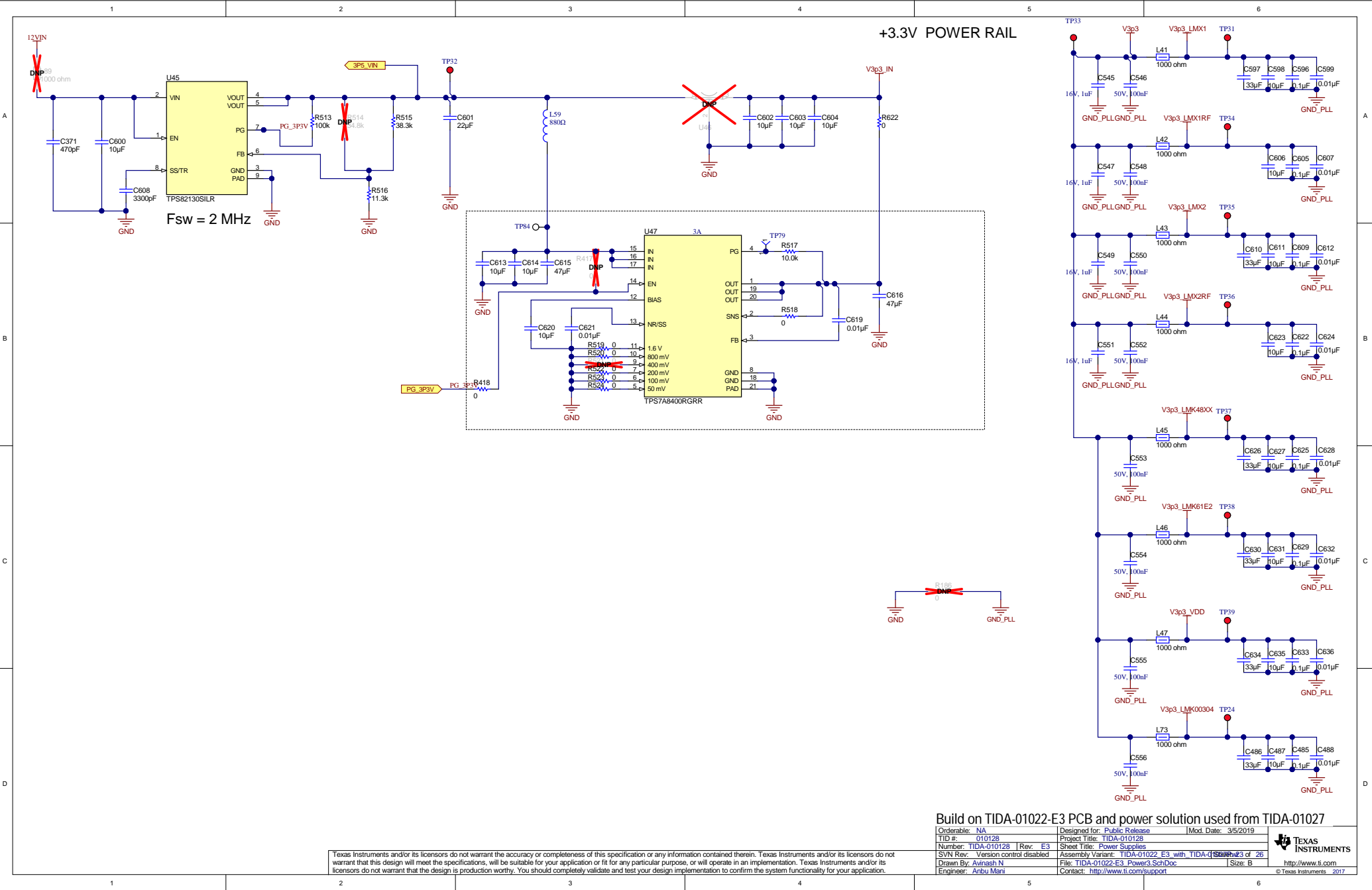


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Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 3/5/2019
TID #: 010128	Project Title: TIDA-010128	
Number: TIDA-010128 Rev: E3	Sheet Title: Power Supplies	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027-E3	Size: B
Drawn By: Avinash N	File: TIDA-01022-E3_Power1_SchDoc	http://www.ti.com
Engineer: Anbu Mani	Contact: http://www.ti.com/support	© Texas Instruments 2017

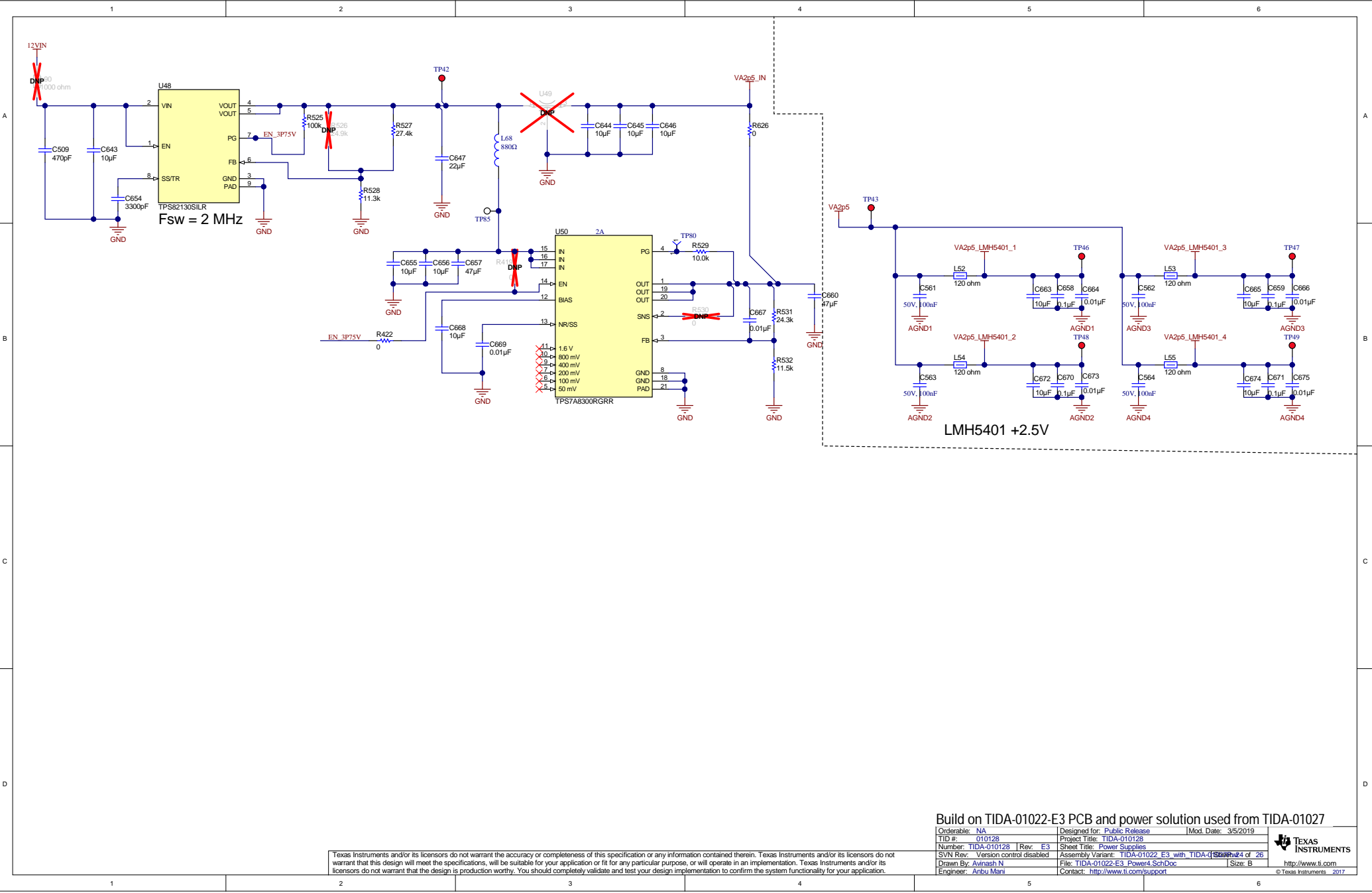




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Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027		
Orderable: NA	Designed for: Public Release	Mod. Date: 3/5/2019
TID #: 010128	Project Title: TIDA-010128	
Number: TIDA-010128 Rev: E3	Sheet Title: Power Supplies	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027-E3	26 of 26
Drawn By: Avinash N	File: TIDA-01022-E3 Power3.SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

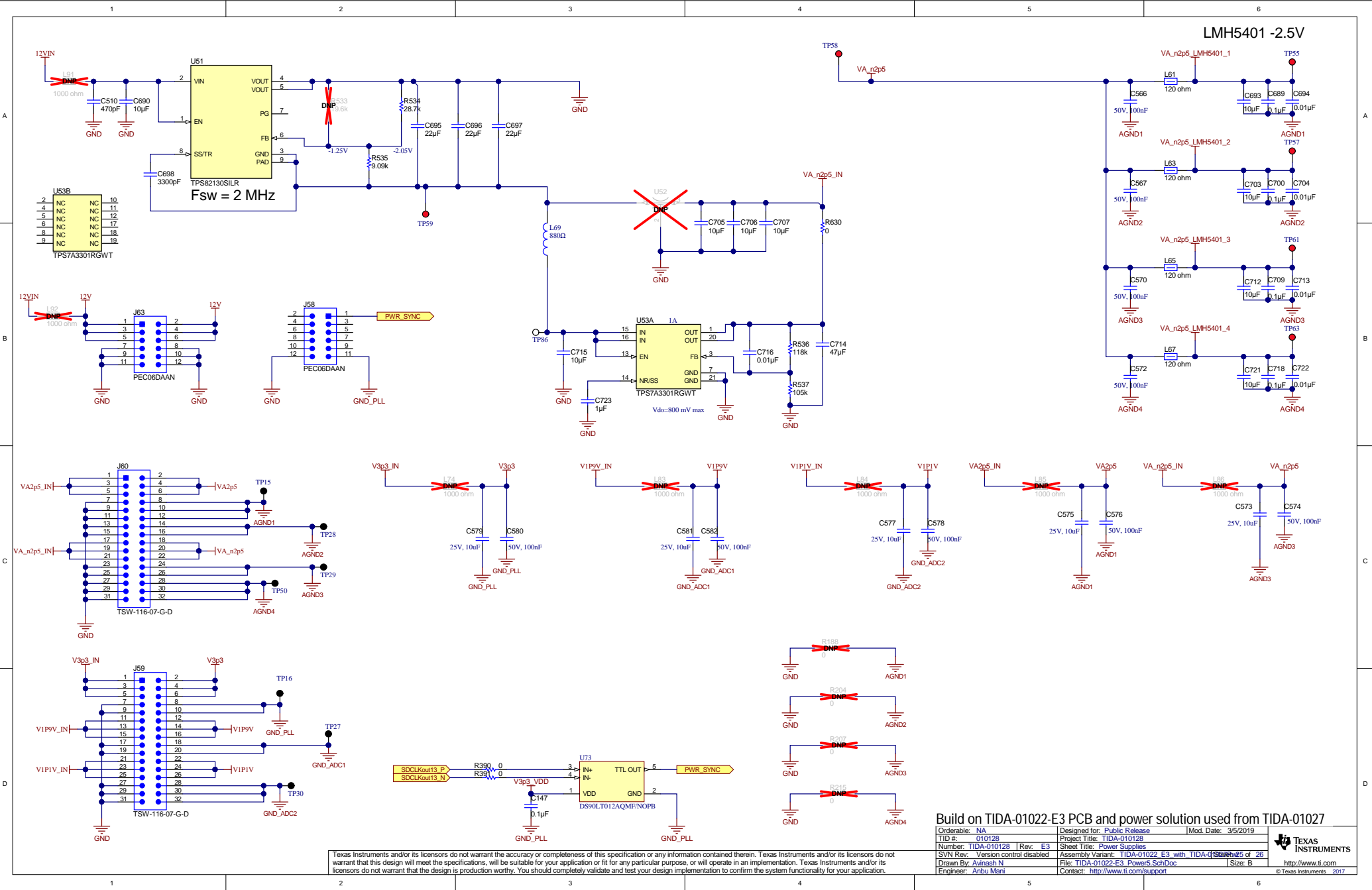




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Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027



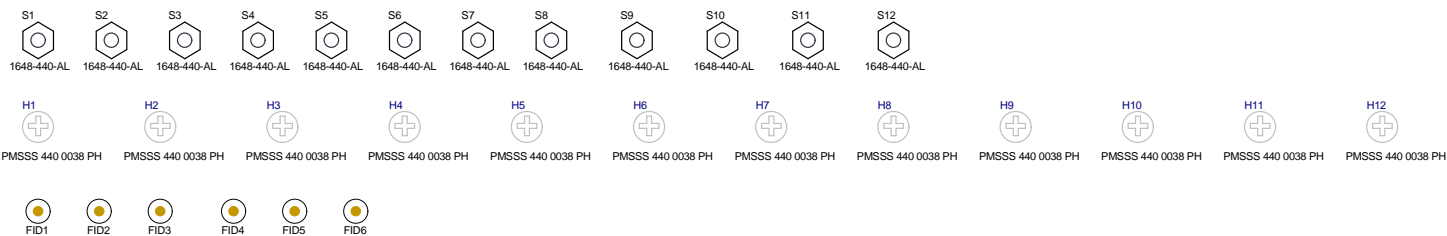


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Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 3/5/2019
TID #: 010128	Project Title: TIDA-010128	
Number: TIDA-010128 Rev: E3	Sheet Title: Power Supplies	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027-E3	Size: B
Drawn By: Avinash N	File: TIDA-01022-E3_Power5_SchDoc	
Engineer: Anbu Mani	Contact: http://www.ti.com/support	





PCB Number: TIDA-010128
PCB Rev: E3

PCB
LOGO
Logo1

PCB
LOGO
Pb-Free Symbol

PCB
LOGO
FCC disclaimer

PCB
LOGO
Logo4

PCB
LOGO
Logo5

Variant/Label Table	
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

722
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.

You should delete the nylon screws/standoffs and/or the bumpons as needed for your design (or substitute other parts from Hardware.IntLib). Bumpons are cheaper, but provide less clearance.

Deleting anything else from this page may result in your EVM submission being rejected (until you add them back).

Update the Label Text in the Label Table as needed for each Assembly Variant.

You should delete this note too.