

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: Block Diagram
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027-E3	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	

ANALOG INPUT CH-1

A

A

B

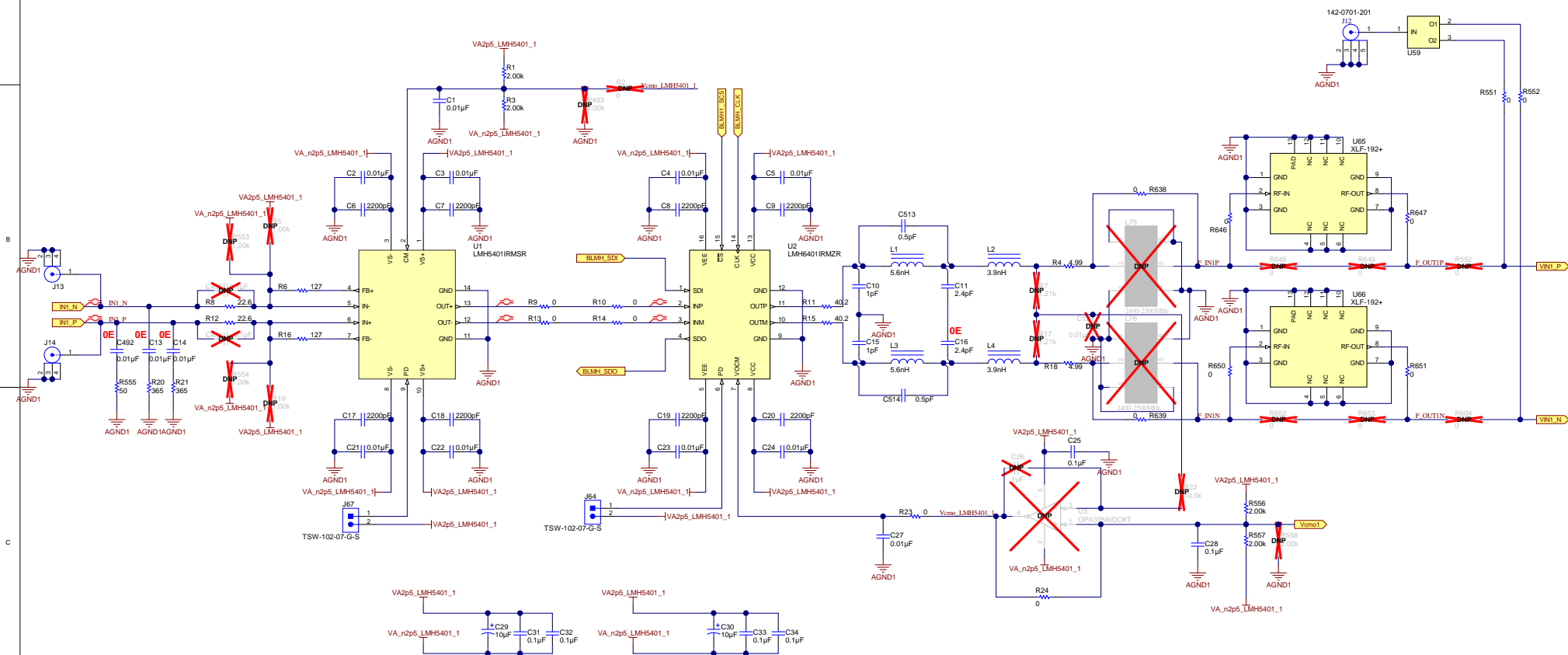
B

C

C

D

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: 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
Engineer: Avinash N	File: TIDA-01022-E3 ADC ANALOG INP CH1 Sch.Dwg	Size: B
Contact: http://www.ti.com/support		



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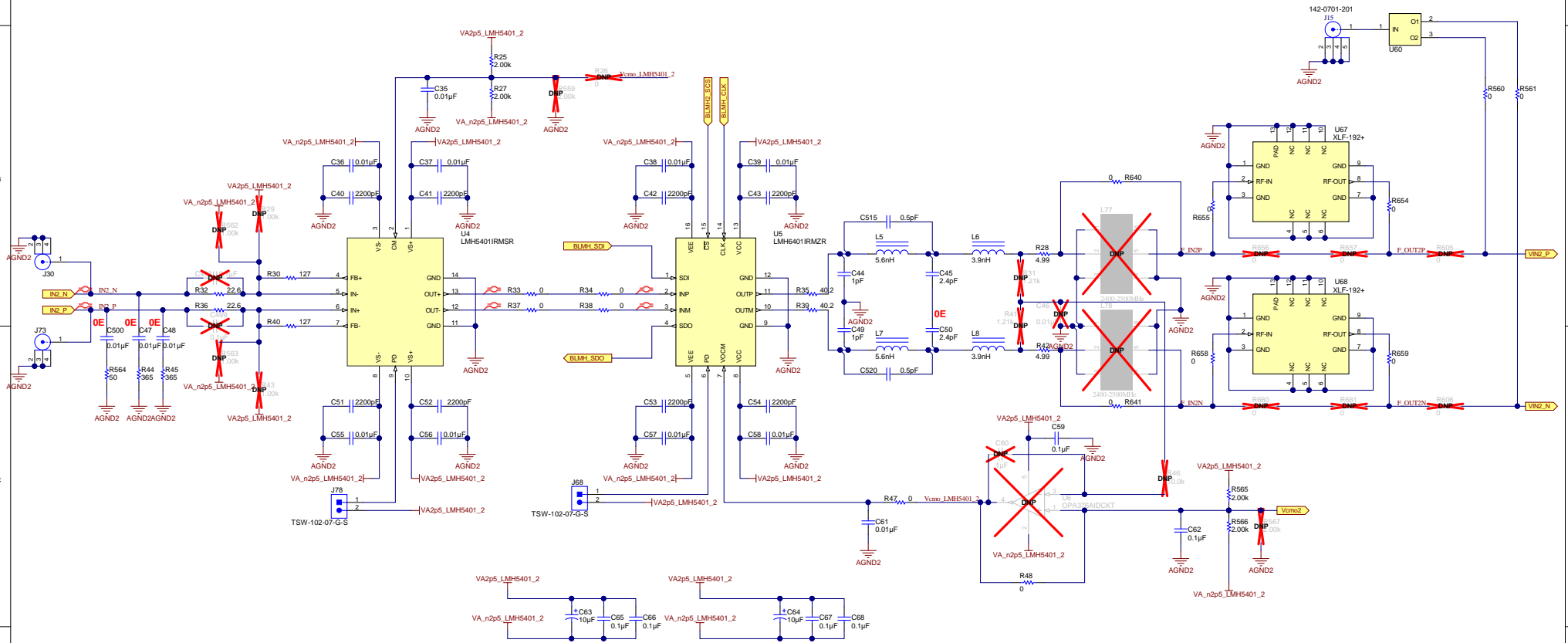
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1	2	3	4	5	6
A					A
B					B
C					C
D					D
1	2	3	4	5	6

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Orderable: NA	Designed for: Public Release	Mod. Date: 5/8/2018
TID #: 010122	Project Title: TIDA-010122	
Number: TIDA-010122 Rev: E3	Sheet Title:	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022 E3 with TIDA-010122	Size: B
Drawn By:	File: Sheet1.SchDoc	
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

ANALOG INPUT CH-2



Note:

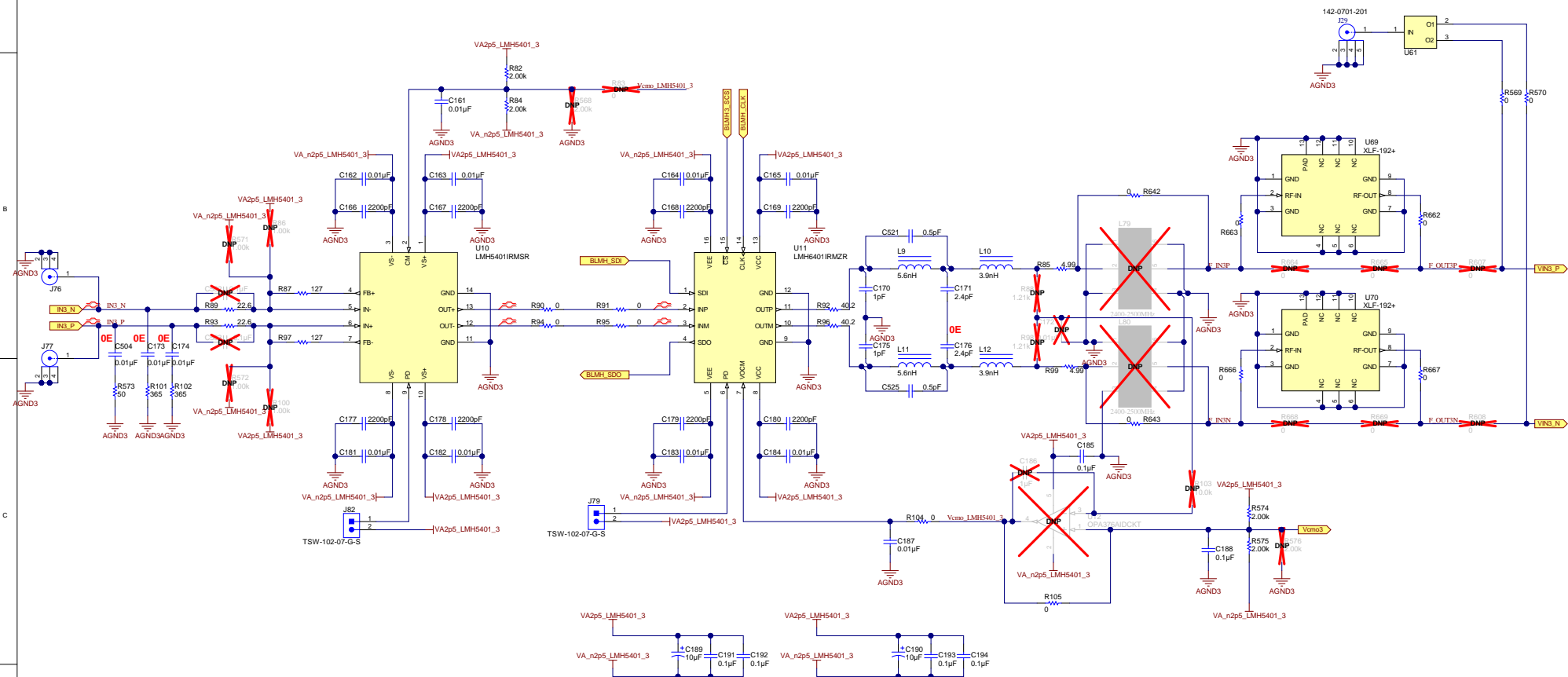
- 1) Replace capacitor (C500, C47) with 0E resistor for DC coupling 50 E impedance

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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: ADC-TIDA-01022-CH2
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027	Drawn By: Avinash N
Engineer: Avinash N	File: TIDA-01022-E3_ADC_ANALOG_INP_CH2_Sch.Dwg	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

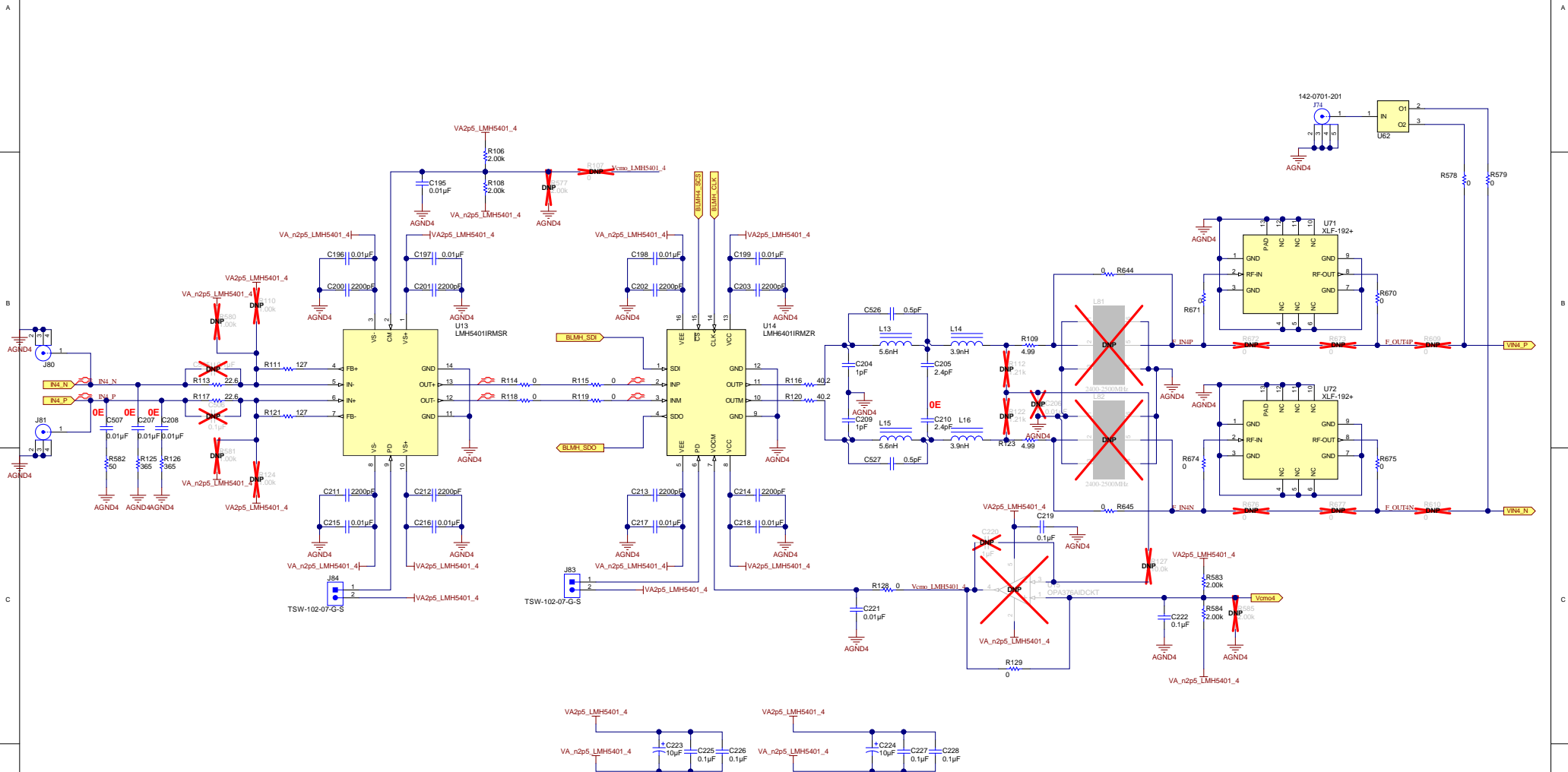
Orderable NA	Designed for: Public Release	Mod. Date: 5/16/2019
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Number: TIDA-010122 Rev: E3	Serial Title: ADC12D1000_03	
SVN Rev: Version control disabled	Assembly Variant: TIDA-010122_E3 with TIDA-010122_Rev0 26	
Drawn by: Avinash N	File: TIDA-010122-E3_ADC_ANALOG_INP_CH3_Sch01.dwg	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

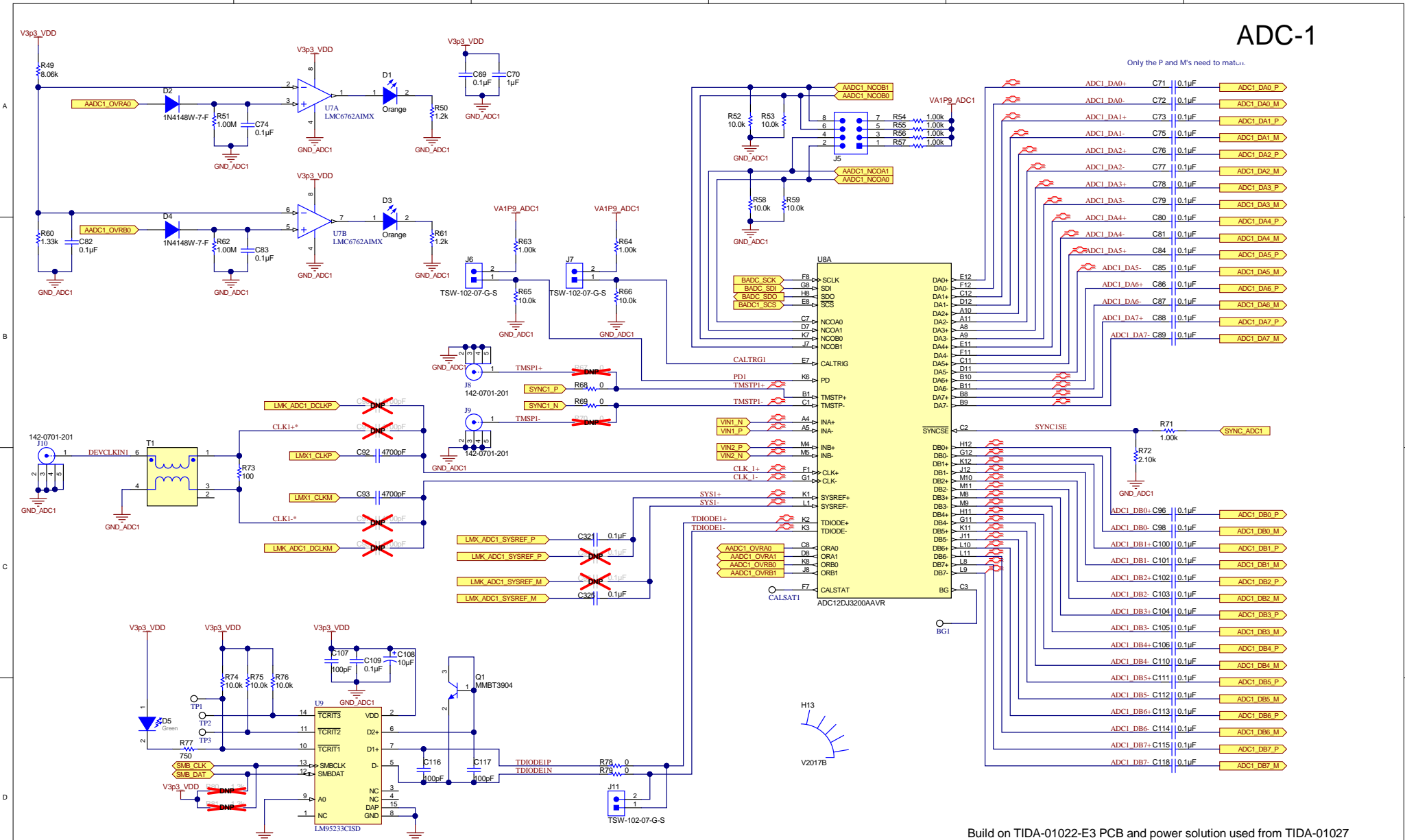
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
Project Title: IDA-010122 Number: IDA-010122 Rev: E3 SVN Rev: Version control disabled Drawn by: Avinash N Engineer: Anbu Mani	Project Title: IDA-010122 Sheet Title: ADC12DtoJ000_CH4 Assembly Name: IDA-010122_E3 with IDA-010122 Rev 26 Title: IDA-010122-E3: ADC ANALOG INP CH4 Sch B-Size B File: http://www.ti.com/support	 http://www.ti.com © Texas Instruments 2017

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ADC-1

Only the P and M's need to match.

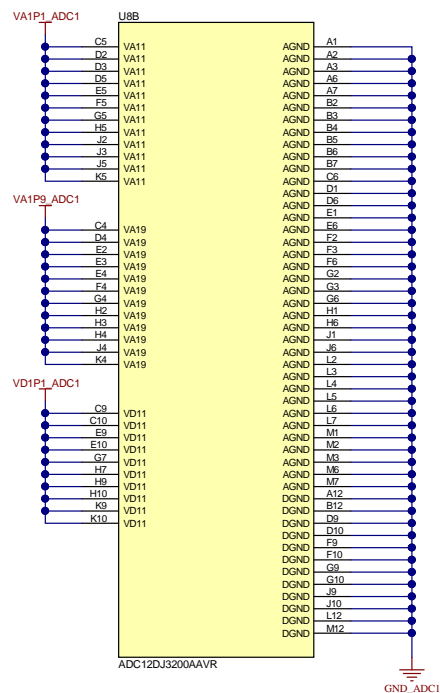


Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
TID #: 010122	Project Title: TIDA-010122	
Number: TIDA-010122 Rev: E3	Sheet Title: ADC12DJ3200A_1	
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_ADC12DJ3200A_1.SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	

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ADC-1

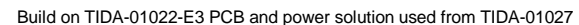


Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
TID #: 010122	Project Title: TIDA-010122	
Number: TIDA-010122 Rev: E3	Sheet Title: ADC12DJ3200 1PWR	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027-PWR of 26	
Drawn By: Avinash N	File: TIDA-01022-E3_ADC12DJ3200_1PWR_SchDoc Size: B	http://www.ti.com
Engineer: Anbu Mani	Contact: http://www.ti.com/support	© Texas Instruments 2017

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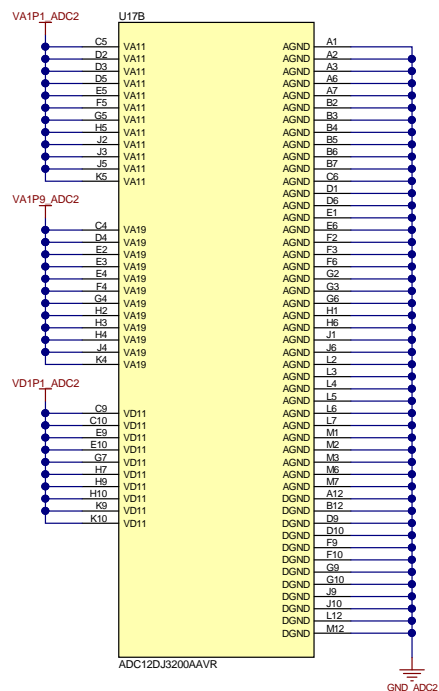
Only the P and M's need to match



Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019	 TEXAS INSTRUMENTS
TID # 010122	Project Title: TIDA-010122		
Number: TIDA-010122 [Rev. E3]	Sheet Title: ADC12DJoxx0.2		
SVN Rev: Version control disabled	Assembly Variant: TIDA-010122 E3 with TIDA-010122 Sch Doc	Size: 26	
Drawn by: Avinash N	File: TIDA-010122-E3_ADC12DJoxx0.2_SchDoc	Size: B	
Engineer: Anbu Mani	Contact: http://www.ti.com/support	http://www.ti.com © Texas Instruments 2017	

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ADC-2

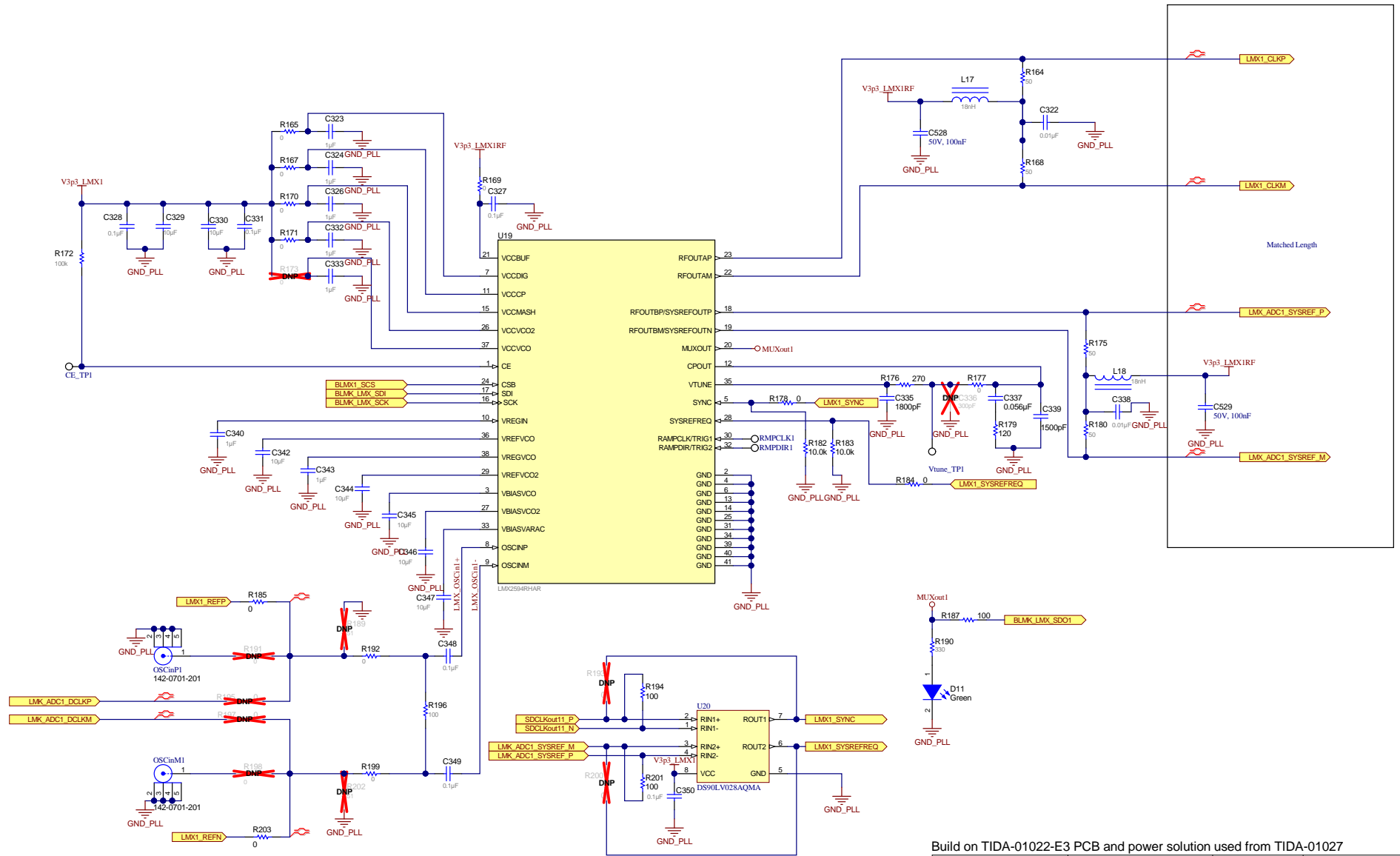


Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
TID #: 010122	Project Title: TIDA-010122	
Number: TIDA-010122 Rev: E3	Sheet Title: ADC12D3200 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_ADC12D3200_2PWR_SchDoc Size: B	http://www.ti.com
Engineer: Anbu Mani	Contact: http://www.ti.com/support	© Texas Instruments 2017

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LMX2594 -1



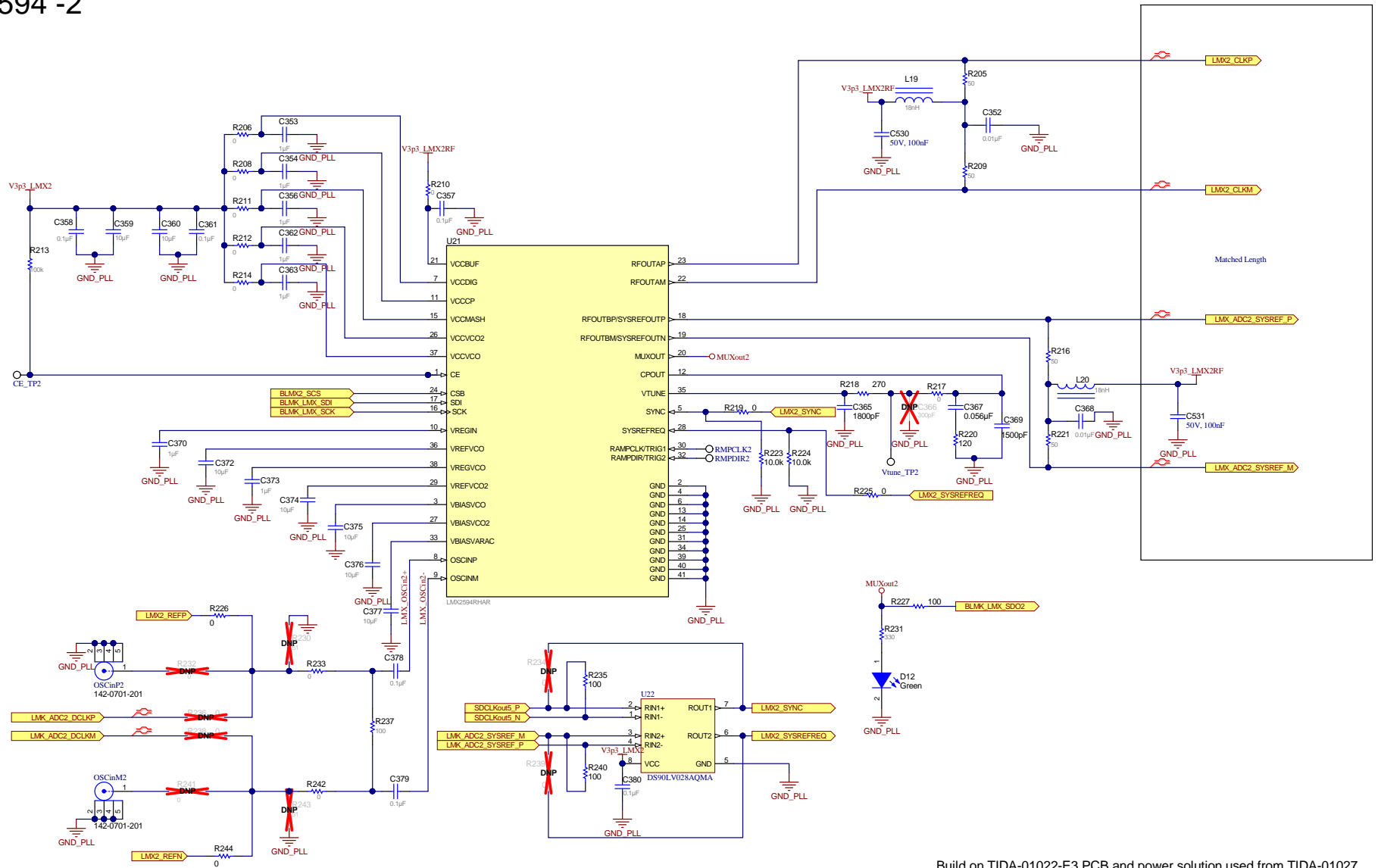
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

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-01027-E3	Page 4 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



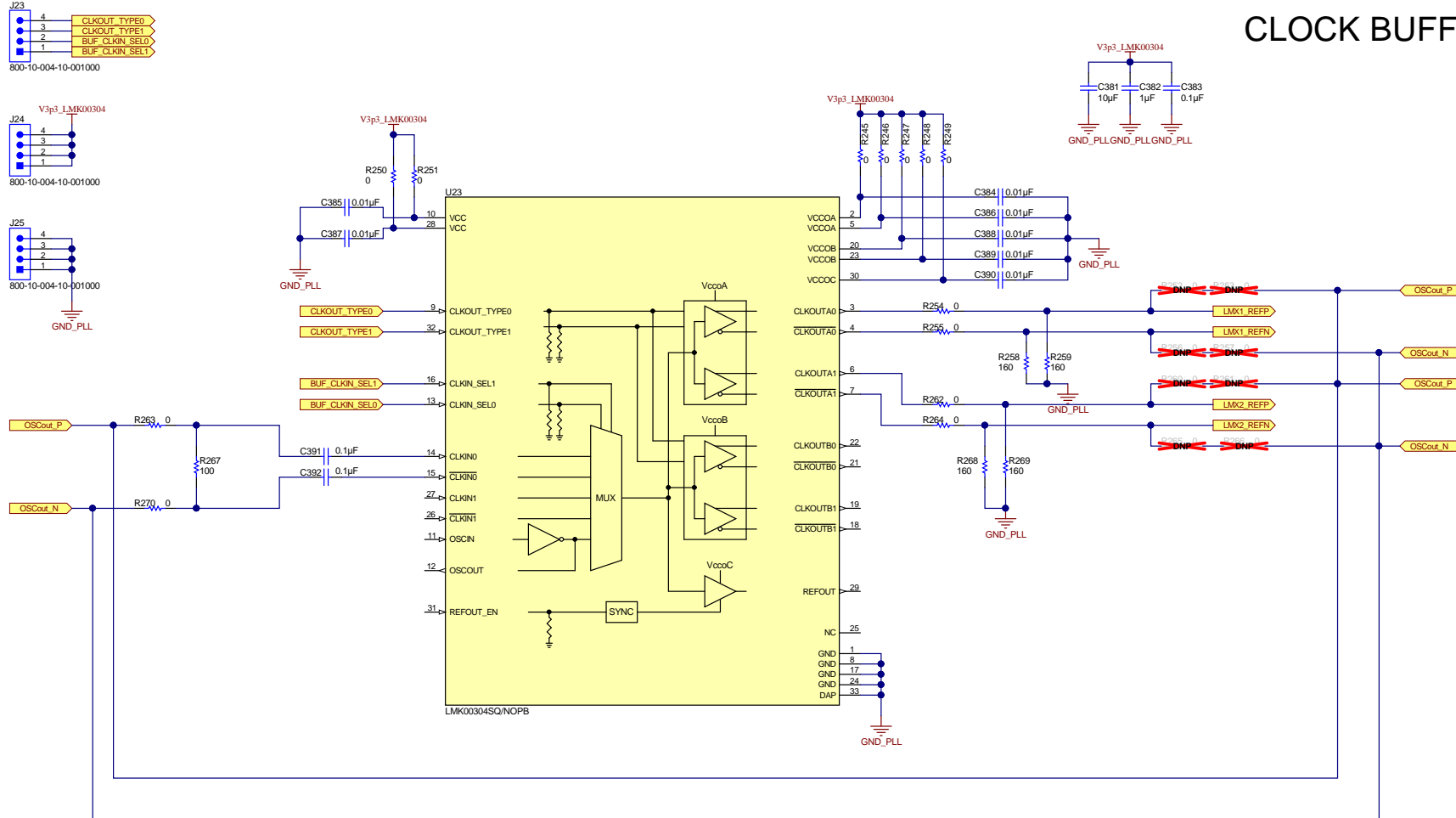
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
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-E3	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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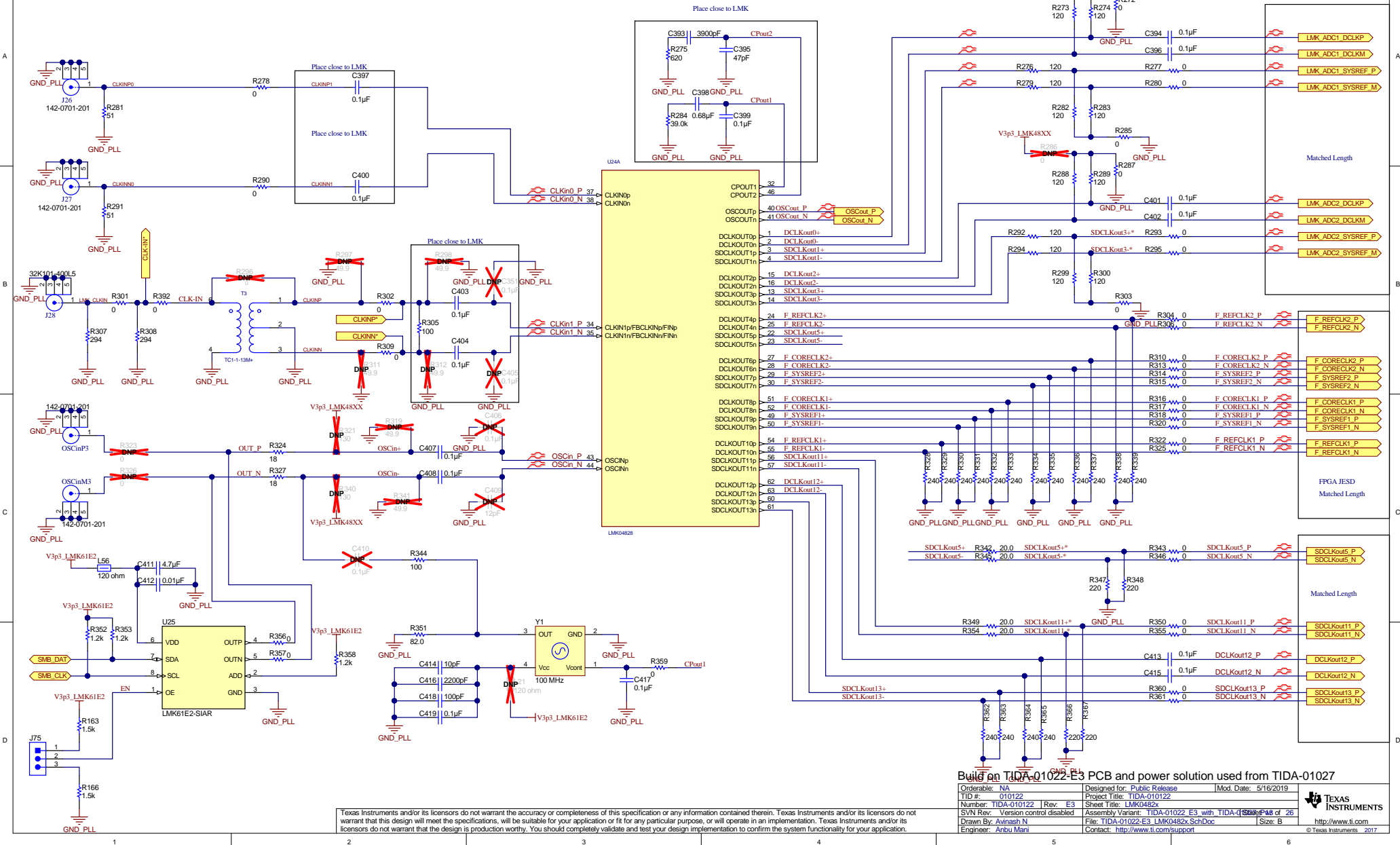
CLOCK BUFFER/MUX



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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: LMK00304_Buffer	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3_w/ln_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



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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 with TIDA-01022	Size: 14 of 2
Drawn By: Avinash N	File: TIDA-01022-E3_LMK0482x_SchDoc	Size: B
Engineer: Anbu Mani	Contact: http://www.ti.com/support	



LMK 04828/32

A

B

C

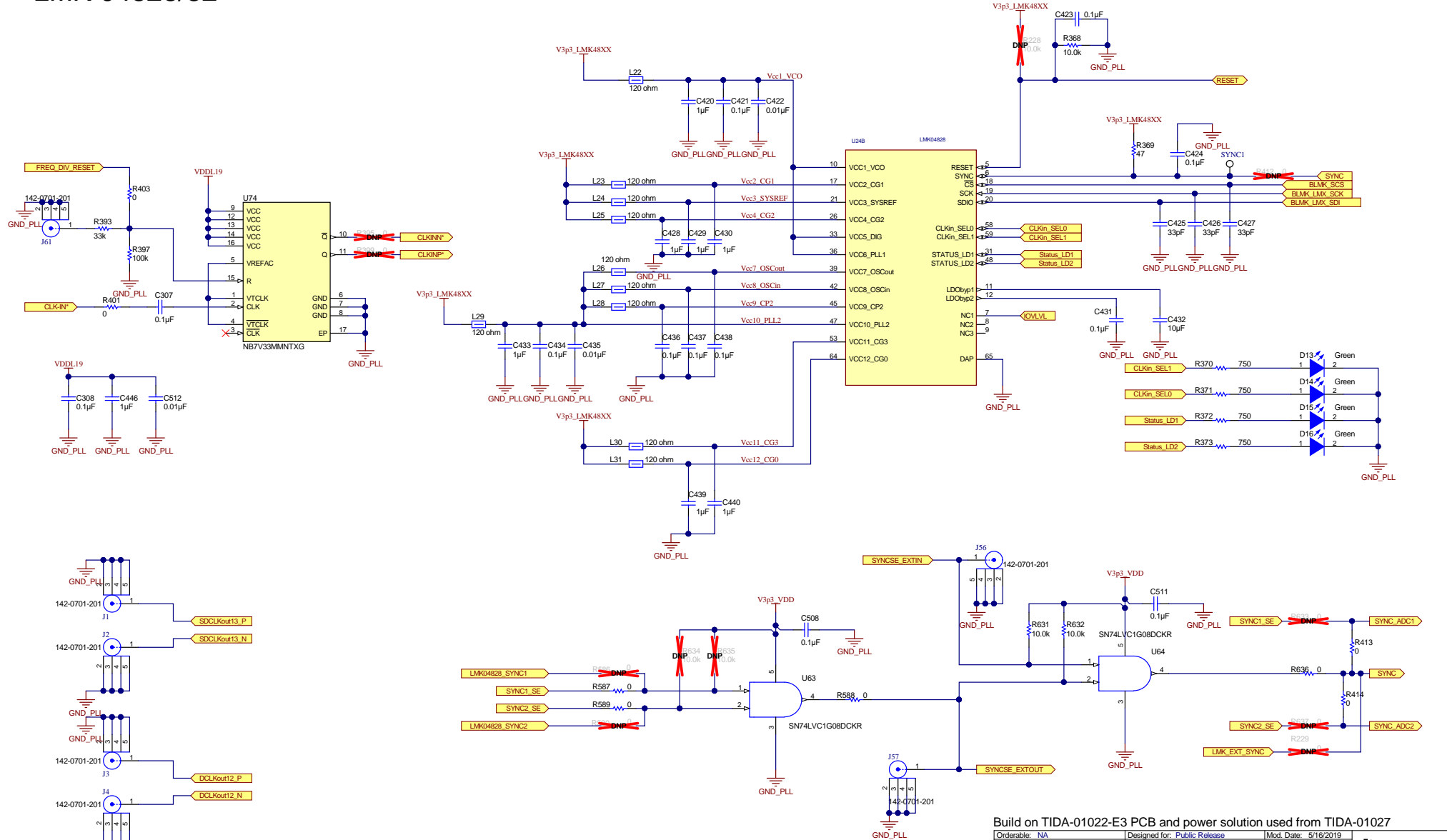
D

A

B

C

D



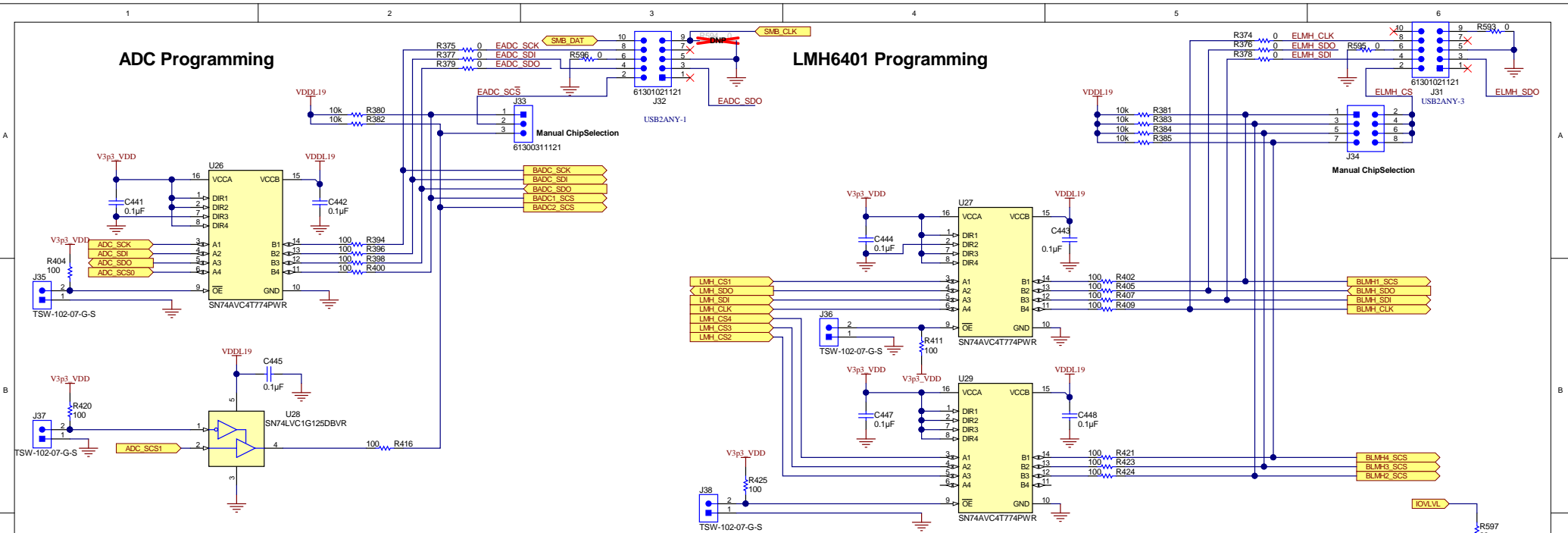
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Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

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_PWR	Assembly Variant: TIDA-01022-E3 with TIDA-01027-E3
SVN Rev: Version control disabled	File: TIDA-01022-E3_LMK0482x_PWR_SchDoc	Size: B
Drawn By: Avinash N	Contact: http://www.ti.com/support	
Engineer: Anbu Mani		



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ADC1 & 2 OverRange & NCO Selection

A

B


C

D

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

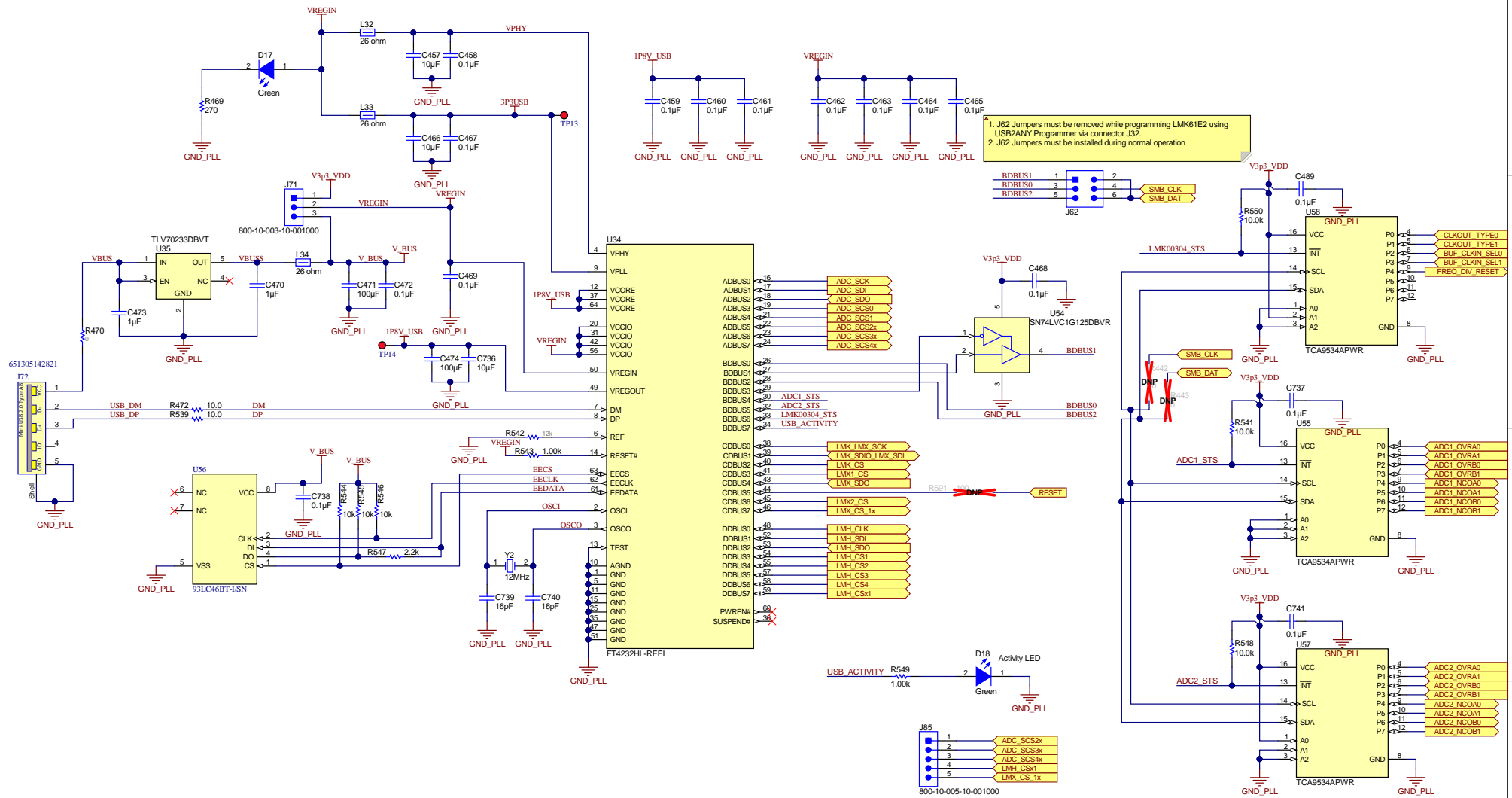
Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
Proj. #:	010122	Project Title: TIDA-010122

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Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019	 TEXAS INSTRUMENTS http://www.ti.com © Texas Instruments 2017
TID #.: 010122	Project Title: TIDA-010122		
Number: TIDA-010122	Rev: E3	Sheet Title: Programming for ADC_LMK_LM3588	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022 E3 with TIDA-01022 E3	Page: 14 of 26	
Drawn by: Avinash N	File: TIDA-01022-E3_Programming for ADC_LMK_LM3588.doc		
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

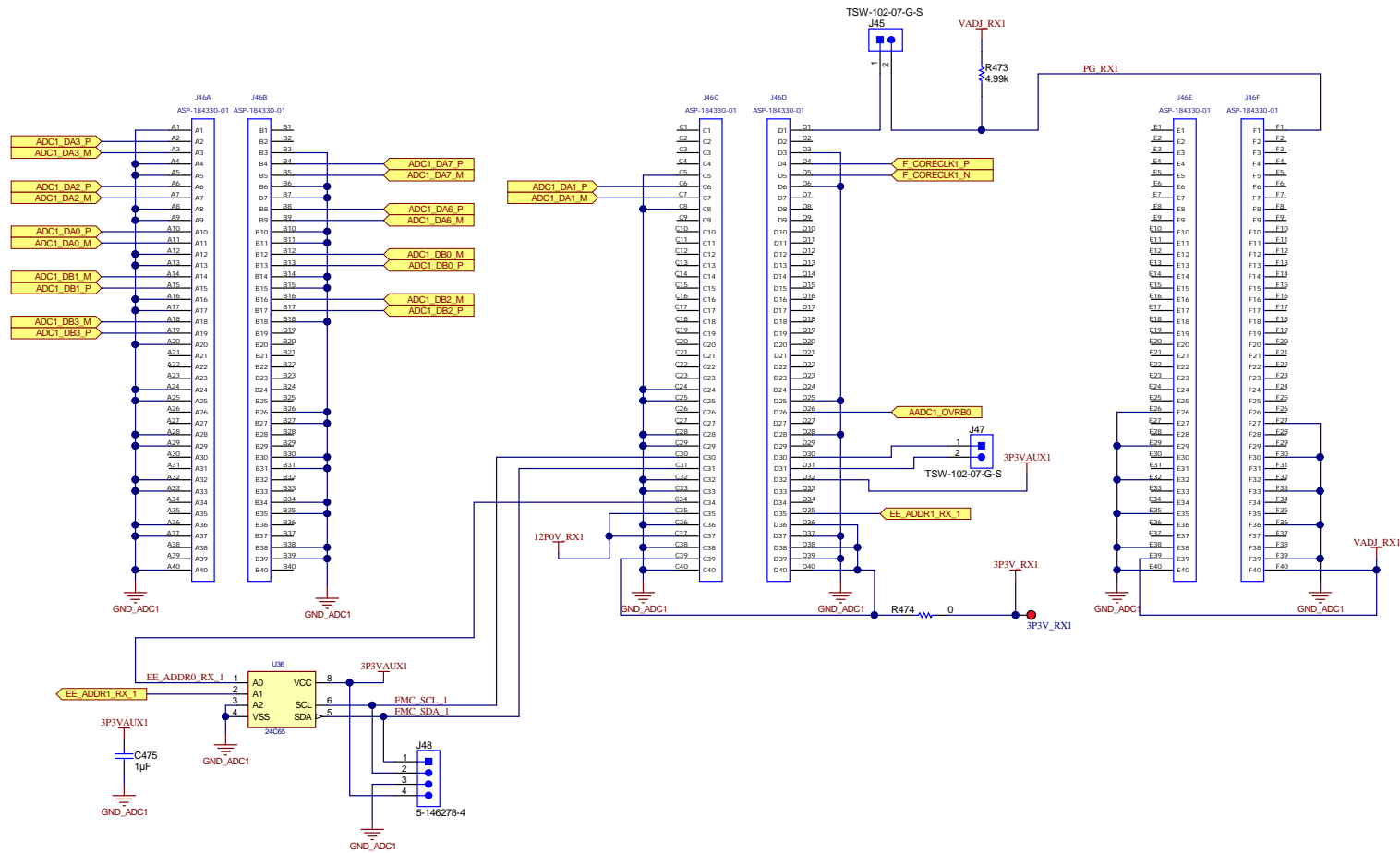
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Number: TIDA-010122	Rev. E3	Sheet Title: USB
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022 E3 with TIDA-01022	Page 16 of 26
Drawn By: Avinash N	File: TIDA-01022-E3 USB.SchDoc	Size: B
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ADC1 FMC+_1 Connector

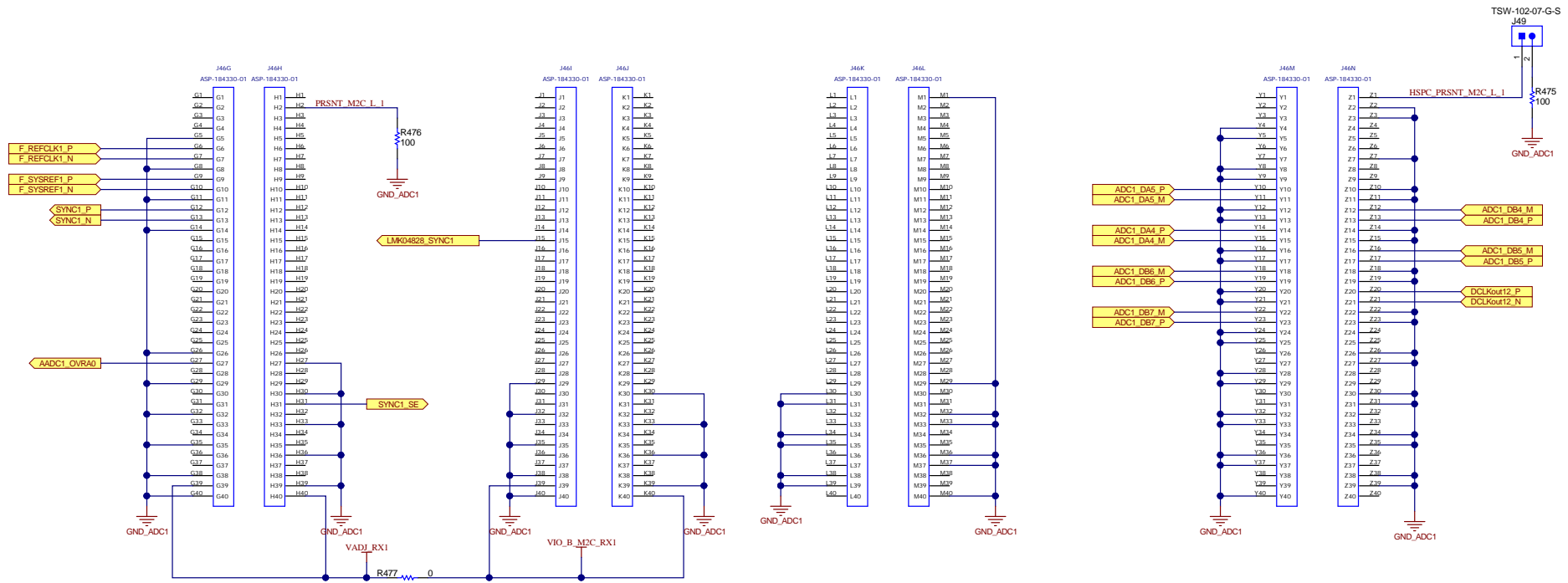


Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
TID #: 010122	Project Title: TIDA-010122	
Number: TIDA-010122	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	http://www.ti.com
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ADC1 FMC+_1 Connector



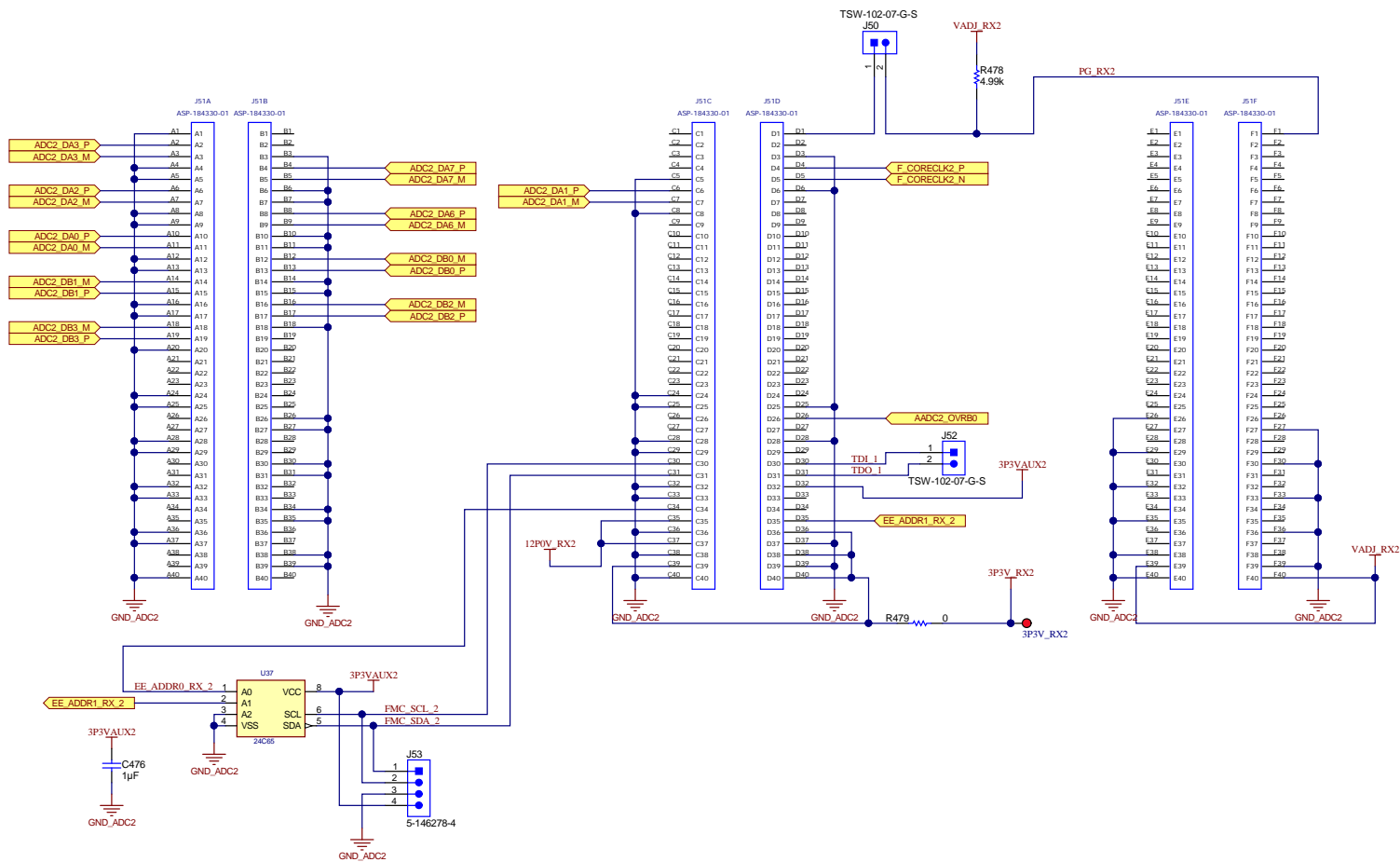
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

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TID #: 010122	Project Title: TIDA-010122	
Number: TIDA-010122 Rev: E3	Sheet Title: FMC+CONN1	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-E3 with TIDA-01027-E3	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



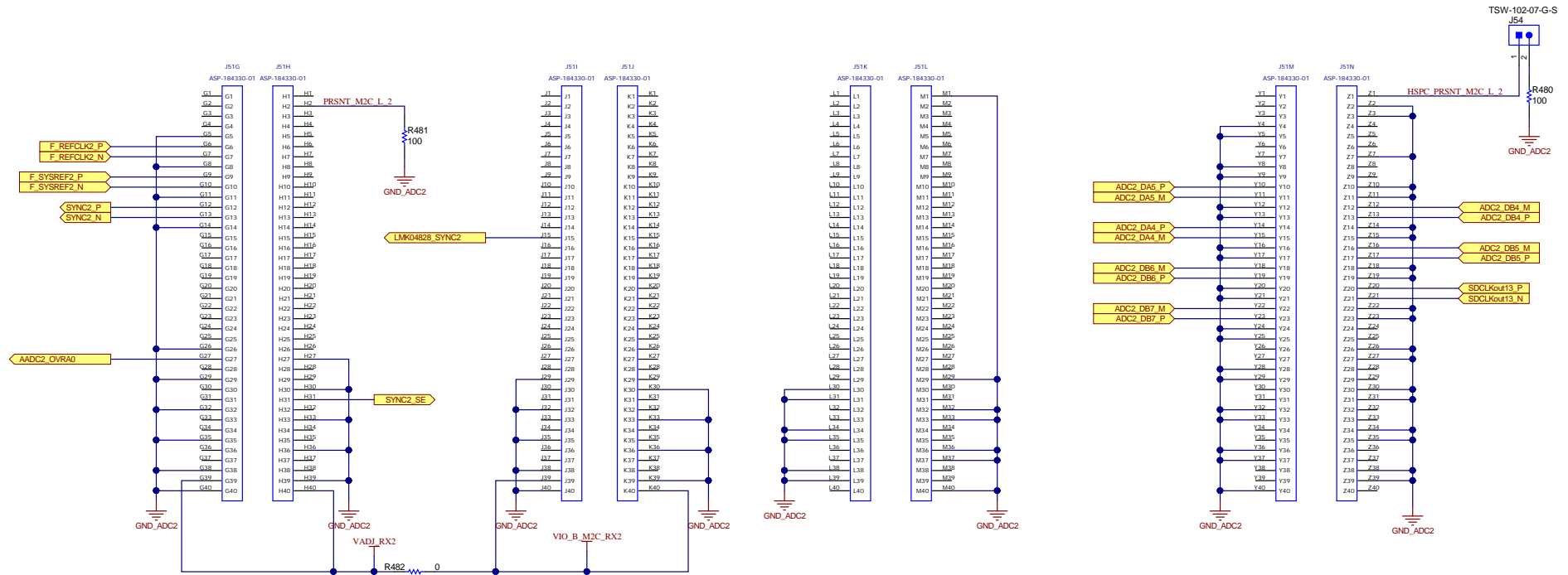
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019
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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-01027-E3	
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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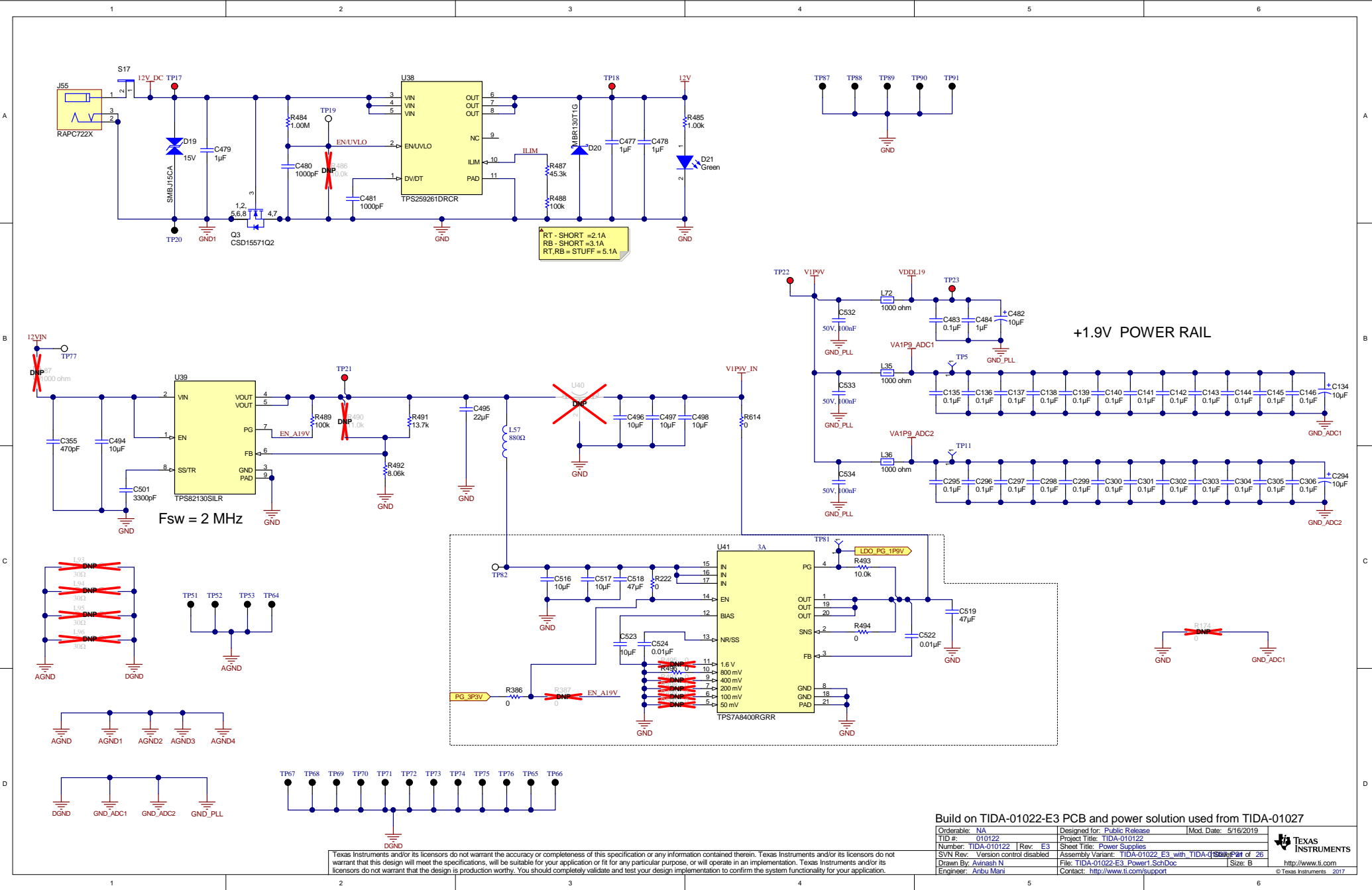
ADC1 FMC+_2 Connector



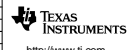
Build on TIDA-01022-E3 PCB and power solution used from TIDA-01027

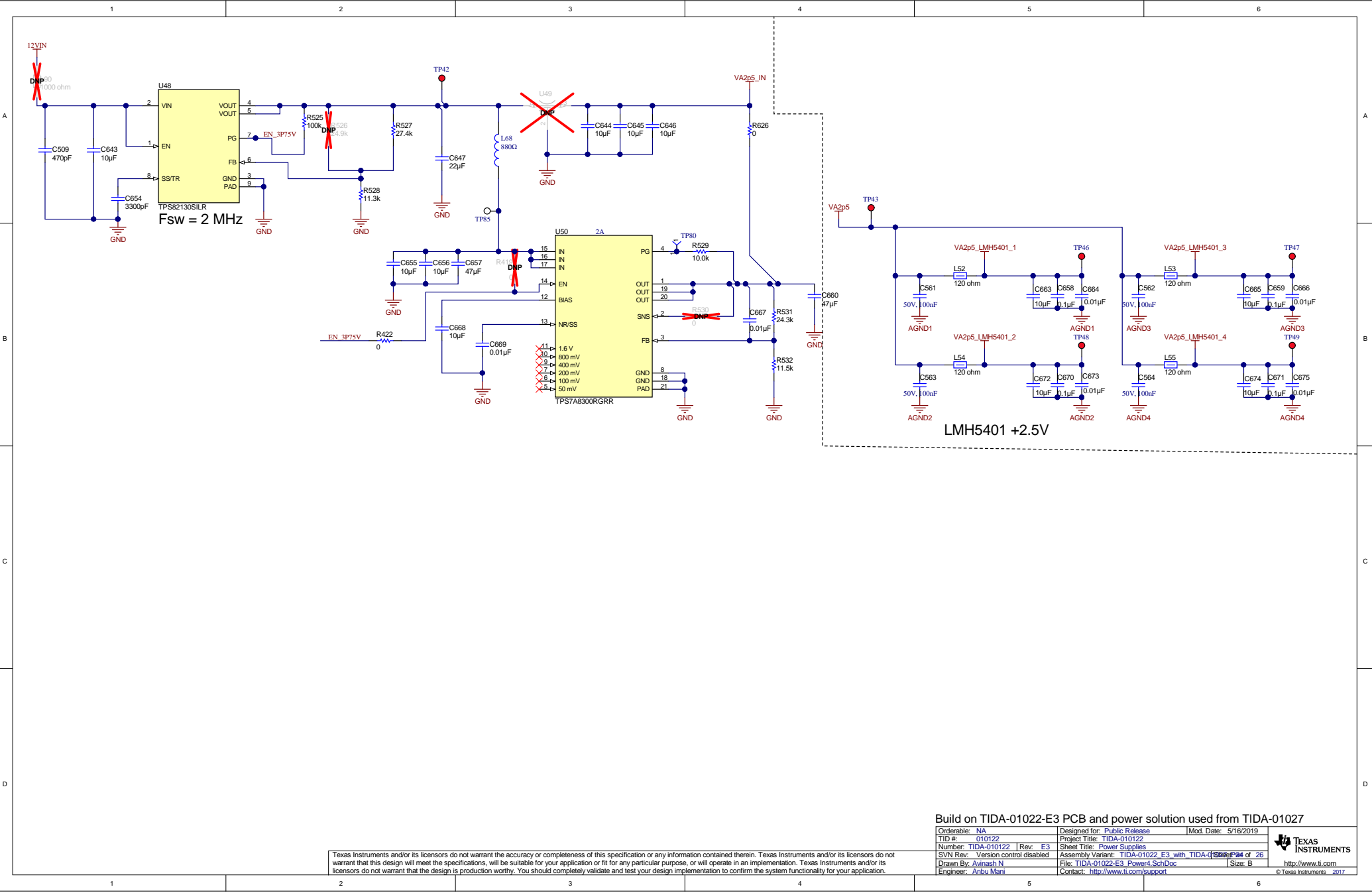
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TID#:	010122	Project Title:	TIDA-010122			
Number:	TIDA-010122	Rev:	E3	Sheet Title:	FMC+CONN2	
SVN Rev:	Version control disabled		Assembly Variant:	TIDA-01022 E3 with TIDA-010122	Page 26 of 26	
Drawn By:	Avinash N		File:	TIDA-01022 E3_FMC+CONN2_2_SchDoc	Size: B	
Engineer:	Anbu Mani		Contact:	http://www.ti.com/support		

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Orderable: NA	Designed for: Public Release	Mod. Date: 5/16/2019	 http://www.ti.com © Texas Instruments 2017
TID #: 010122	Project Title: TIDA-010122	Sheet Title: Power Supplies	
Number: TIDA-010122 Rev: E3	Assembly Variant: TIDA-01022-E3 with TIDA-01027	File: TIDA-01022-E3_Power1_SchDoc	
SVN Rev: Version control disabled	Drawn By: Avinash N	Contact: http://www.ti.com/support	
Engineer: Anbu Mani			



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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-E3	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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