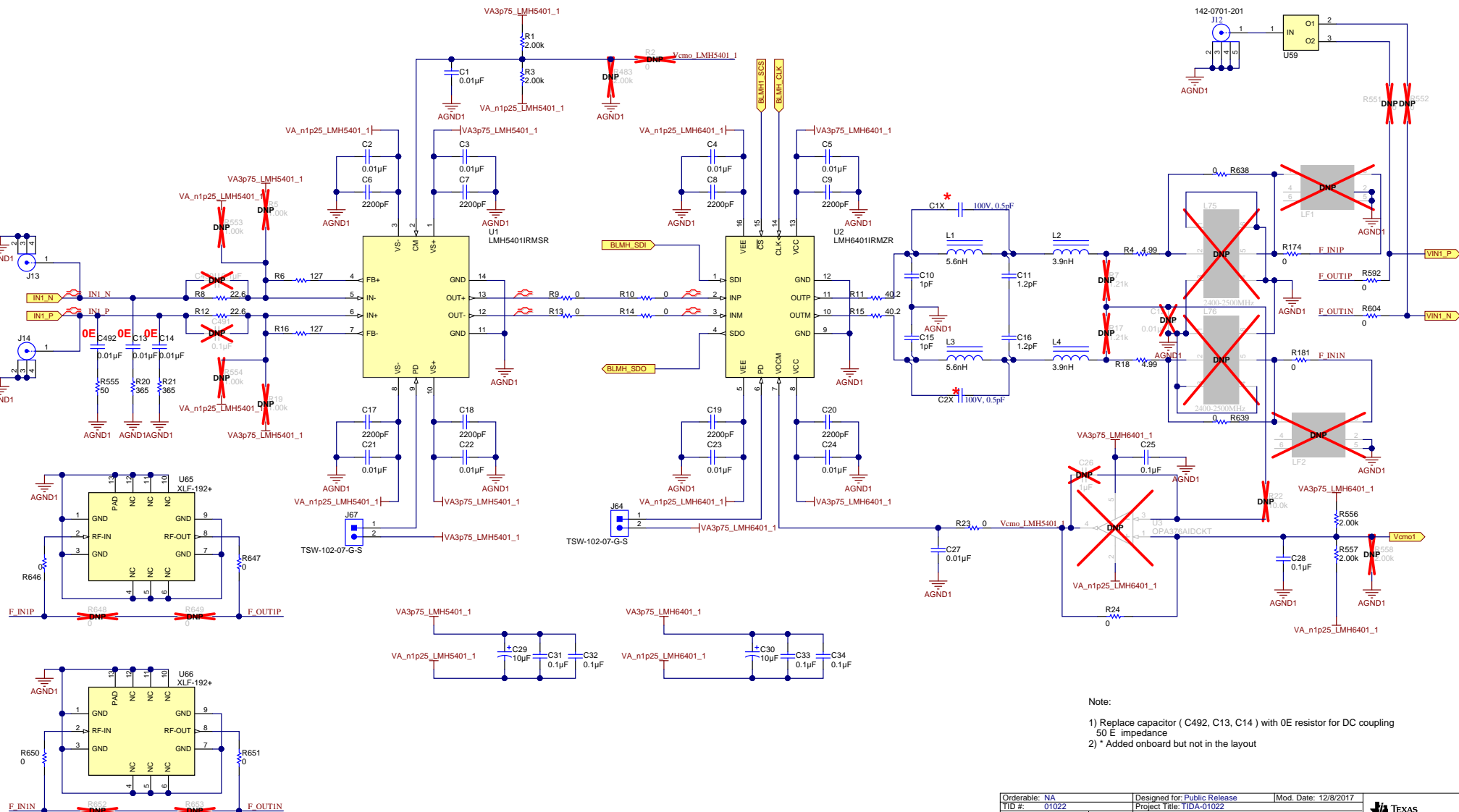




# ANALOG INPUT CH-1



Note:

- 1) Replace capacitor (C492, C13, C14) with 0E resistor for DC coupling  
50 E impedance
- 2) \* Added onboard but not in the layout

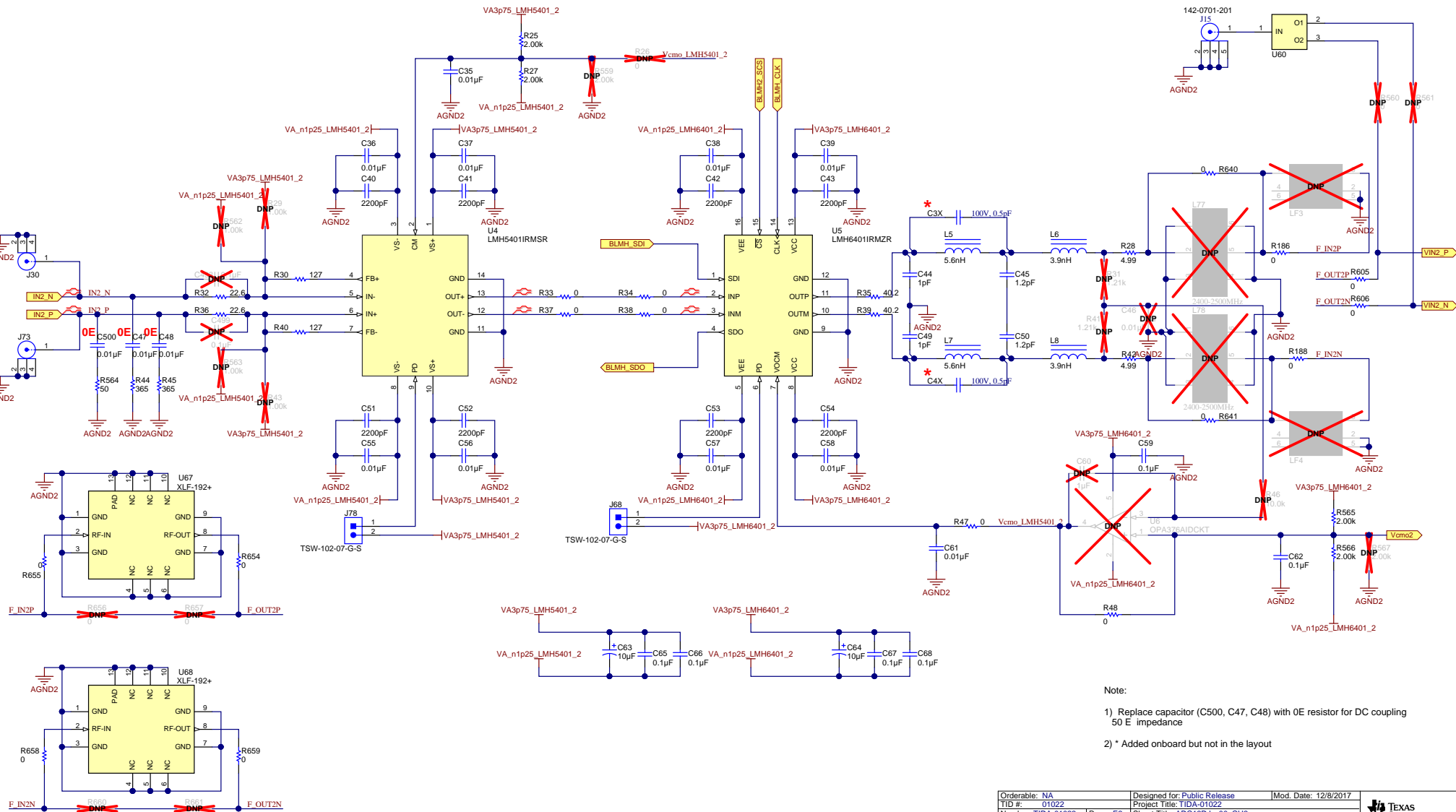
Orderable: NA	Designed for: Public Release	Mod. Date: 12/8/2017
TID #: 01022	Project Title: TIDA-01022	
Number: TIDA-01022   Rev: E2	Sheet Title: ADC ANALOG INP CH1	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A Onboard Pcb	Sheet: 2 of 26
Drawn By: Avinash N	File: TIDA-01022-E2 ADC ANALOG INP CH1.Sch	Size: B
Engineer: Anbu Mami	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	



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## ANALOG INPUT CH-2



Note:

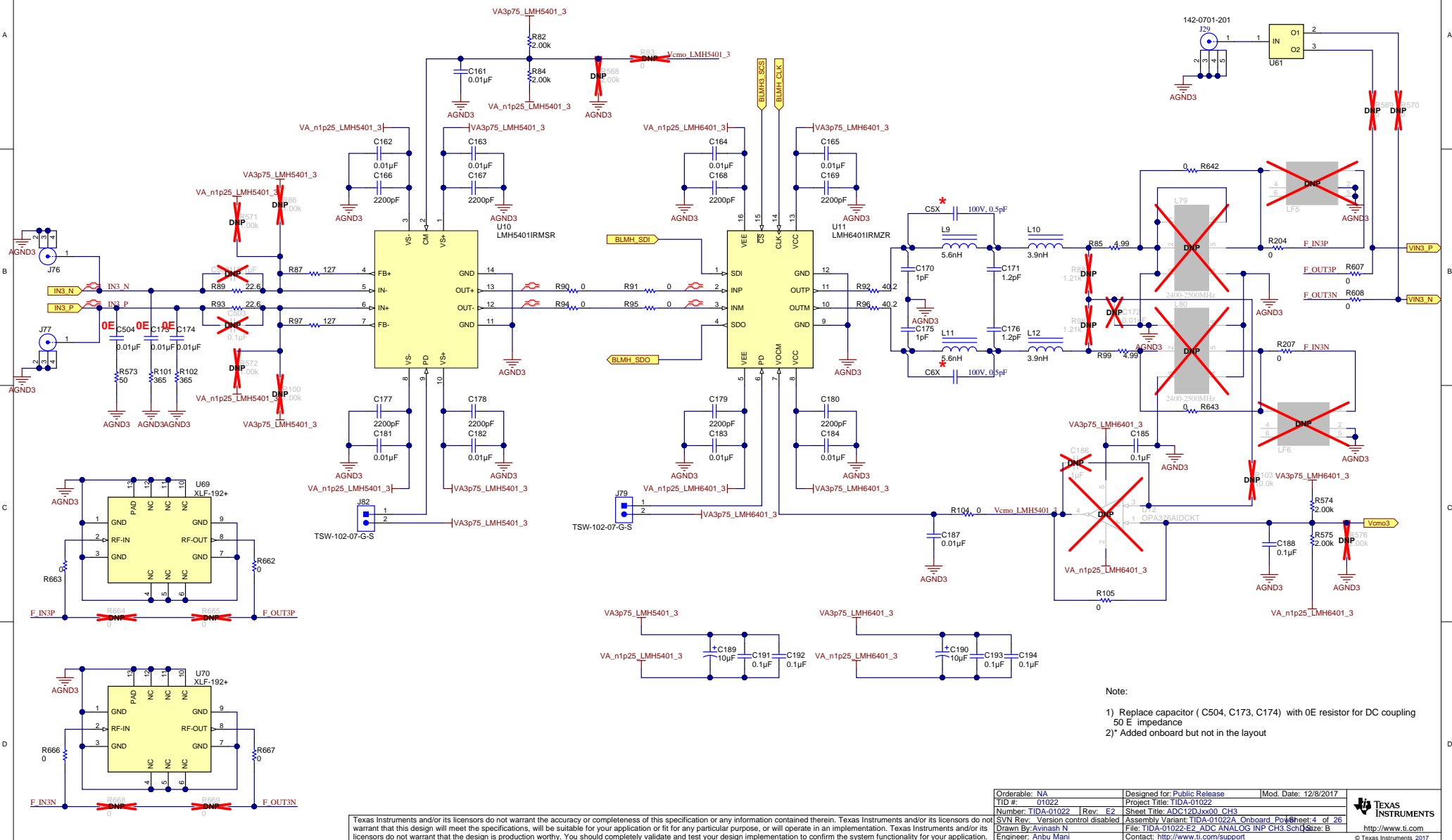
- 1) Replace capacitor (C500, C47, C48) with 0E resistor for DC coupling  
50 E impedance
- 2) \* Added onboard but not in the layout

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Project Title: <b>TIDA-01022</b>	Project Title: <b>TIDA-01022</b>		
Number: <b>TIDA-01022</b>   Rev: <b>E2</b>	Sheet Title: <b>ADC12DUX000</b>	Sheet 3 of 26	
SVN Rev: Version control disabled	Assembly Variant: <b>TIDA-01022A Onboard Power</b>	Size: B	
Drawn by: <b>Avinash N</b>	File: <b>TIDA-01022-E2_ADC_ANALOG_INP_CH2_Sch</b>		
Engineer: <b>Anbu Mani</b>	Contact: <b><a href="http://www.ti.com/support">http://www.ti.com/support</a></b>		

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## ANALOG INPUT CH-3

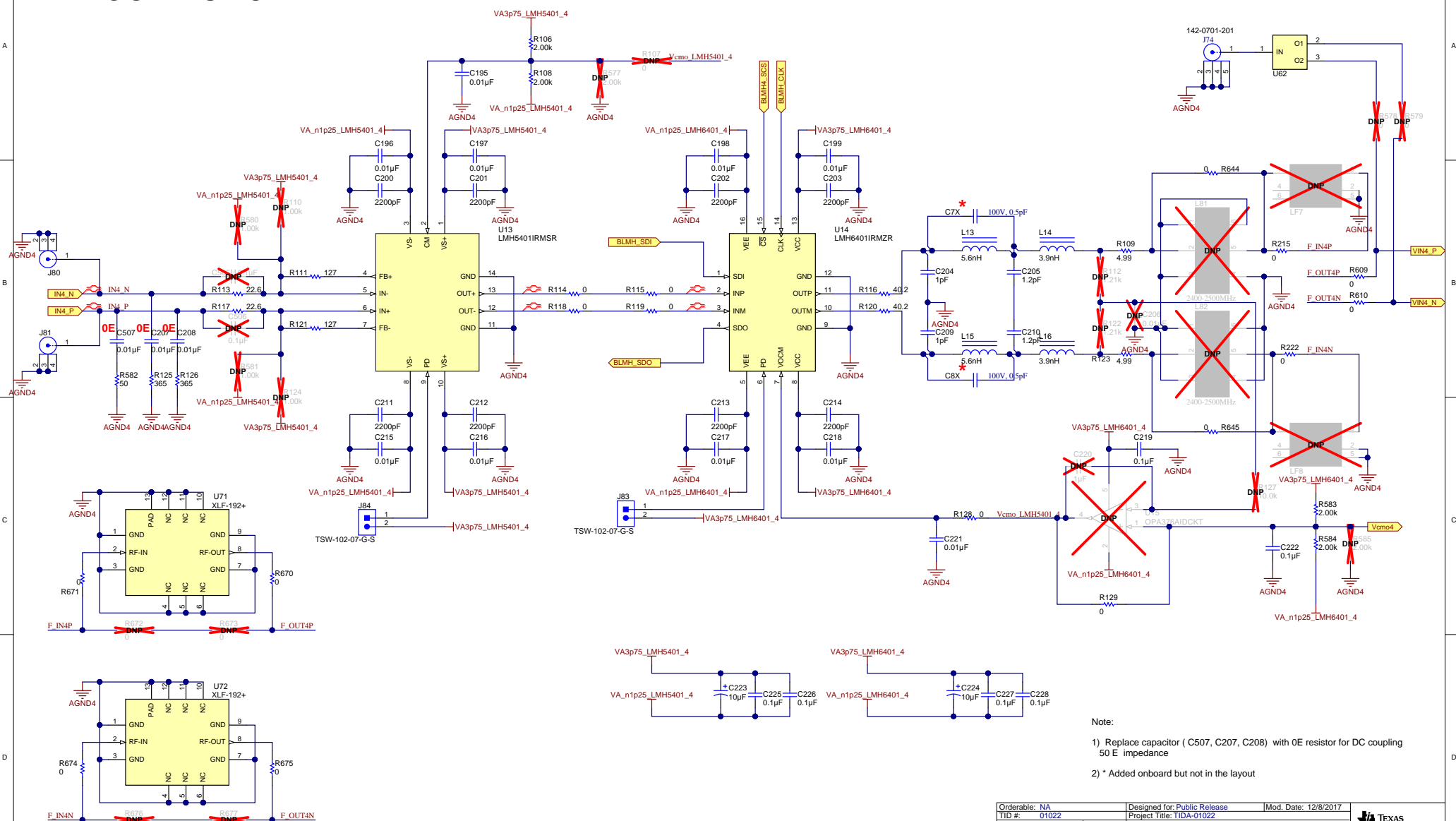


Note:

- 1) Replace capacitor ( C504, C173, C174 ) with 0E resistor for DC coupling  
50 E impedance
- 2)\* Added onboard but not in the layout


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Project Title: <b>TIDA-01022</b>	Project Title: <b>TIDA-01022</b>		
Number: <b>TIDA-01022</b> Rev: <b>E2</b>	Sheet Title: <b>ADC12DUX000</b>	Sheet 4 of 26	
SVN Rev: Version control disabled	Assembly Variant: <b>TIDA-01022A Onboard Power</b>	Size: B	
Drawn by: <b>Avinash N</b>	File: <b>TIDA-01022-E2_ADC_ANALOG_INP_CH3_Sch</b>		
Engineer: <b>Anbu Mani</b>	Contact: <b><a href="http://www.ti.com/support">http://www.ti.com/support</a></b>		

## ANALOG INPUT CH-4



Note:

- 1) Replace capacitor ( C507, C207, C208 ) with 0E resistor for DC coupling  
50 E impedance
- 2) \* Added onboard but not in the layout

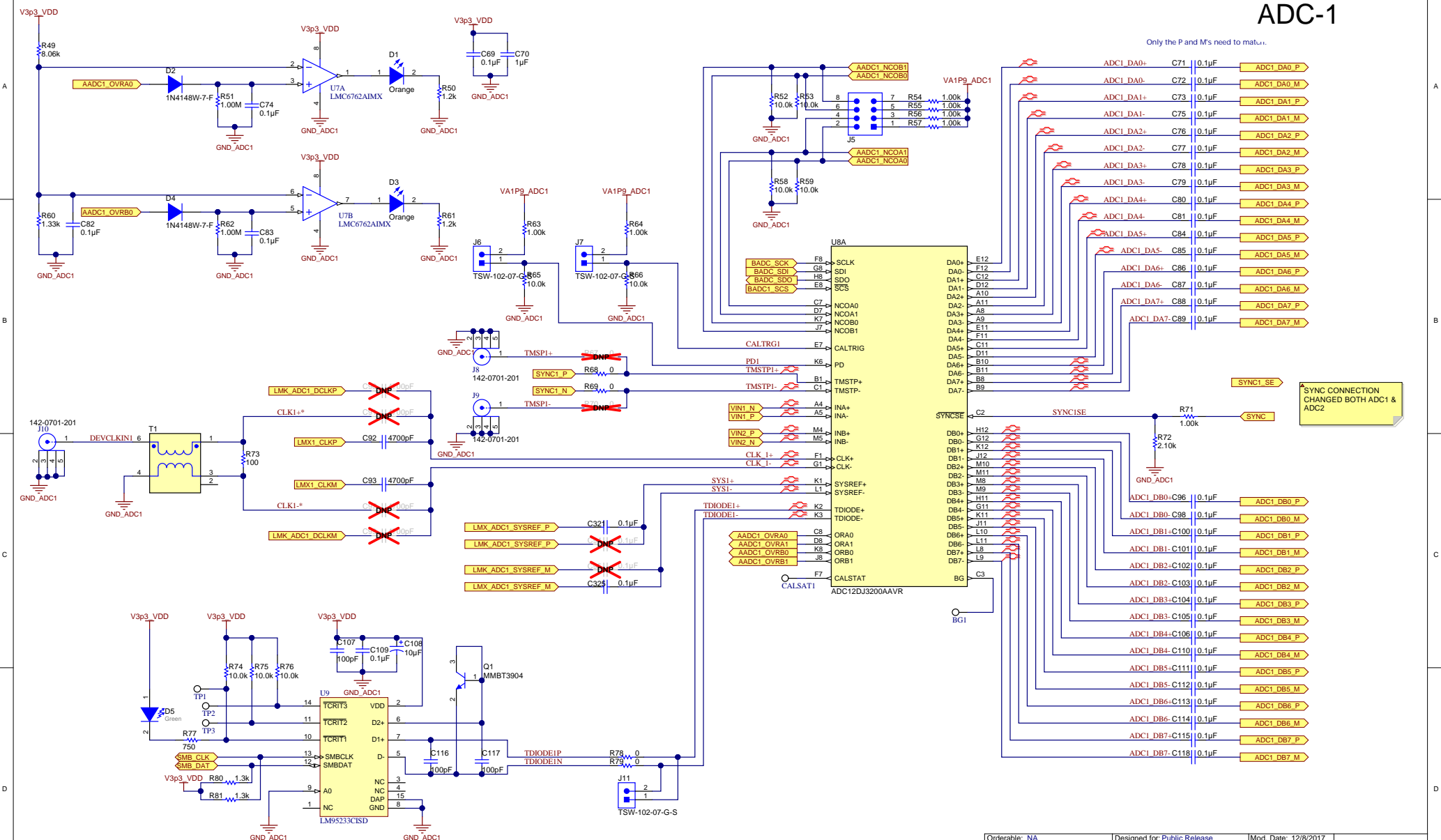
Orderable: <b>NA</b>	Designed for <b>Public Release</b>	Mod. Date: 12/8/2017	
Part Number: <b>TIDA-01022</b>	Project Title: <b>TIDA-01022</b>		
Version: <b>TIDA-01022</b>	Rev: <b>E2</b>	Sheet Title: <b>ADC12DUX000</b>	
SUNB Rev: Version control disabled	Assembly Variant: <b>TIDA-01022A Onboard Po</b>	Sheet 5 of 26	
Drawn by: <b>Avinash N</b>	Title: <b>TIDA-01022-E2 ADC ANALOG INP CH4 Sch</b>	Size: <b>B</b>	
Engineer: <b>Anubh Mani</b>	Contact: <b>http://www.ti.com/support</b>		<a href="http://www.ti.com">http://www.ti.com</a> © Texas Instruments 2017

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# ADC-1

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



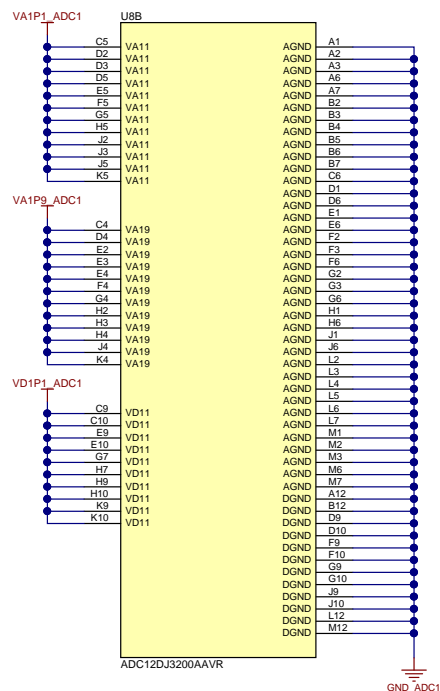
SYNC CONNECTION CHANGED BOTH ADC1 & ADC2

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Orderable: NA	Designed for: Public Release	Mod. Date: 12/8/2017
TID #: 01022	Project File: TIDA-01022	
Number: TIDA-01022   Rev: E2	Sheet Title: ADC12DJ3200_A Onboard Power	Sheet: 6 of 26
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A	File: TIDA-01022-E2_ADC12DJ3200_1.SchDoc
Drawn By: Avinash N	Engineer: Anbu Mani	Contact: http://www.ti.com/support



# ADC-1



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Orderable: NA	Designed for: Public Release	Mod. Date: 8/4/2017
TID #: 01022	Project Title: TIDA-01022	
Number: TIDA-01022   Rev: E2	Sheet Title: ADC12DJ3200 1PWR	
SVN Rev. Version control disabled	Assembly Variant: TIDA-01022A Onboard Power	Sheet: 7 of 26
Drawn By: Avinash N	File: TIDA-01022-E2_ADC12DJ3200 1PWR SchDoc	Size: B
Engineer: Anbu Mani	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	

# ADC-2

Only the P and M's need to match.

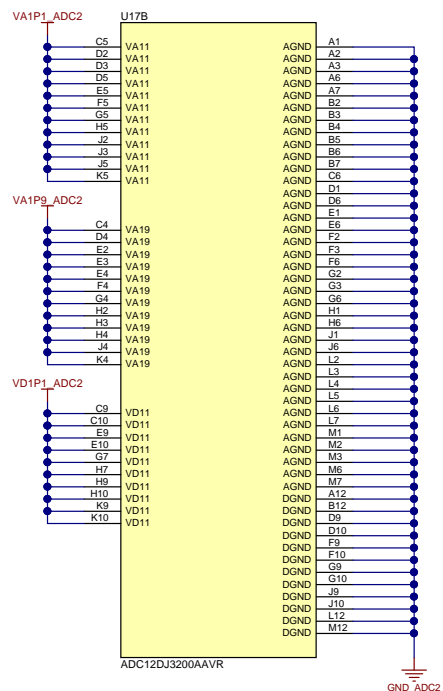
SYNC CONNECTION CHANGED BOTH ADC1 & ADC2

Orderable: NA	Designed for: Public Release	Mod. Date: 10/24/2017
TID #: 01022	Project Title: TIDA-01022	
Number: TIDA-01022   Rev: E2	Sheet Title: ADC12DJ3200A Onboard Power	Sheet: 8 of 26
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022-A ADC12DJ3200A 2 SchDoc	Size: B
Drawn By: Avinash N	File: TIDA-01022-E2 ADC12DJ3200A 2 SchDoc	http://www.ti.com
Engineer: Anbu Mani	Contact: http://www.ti.com/support	© Texas Instruments 2017

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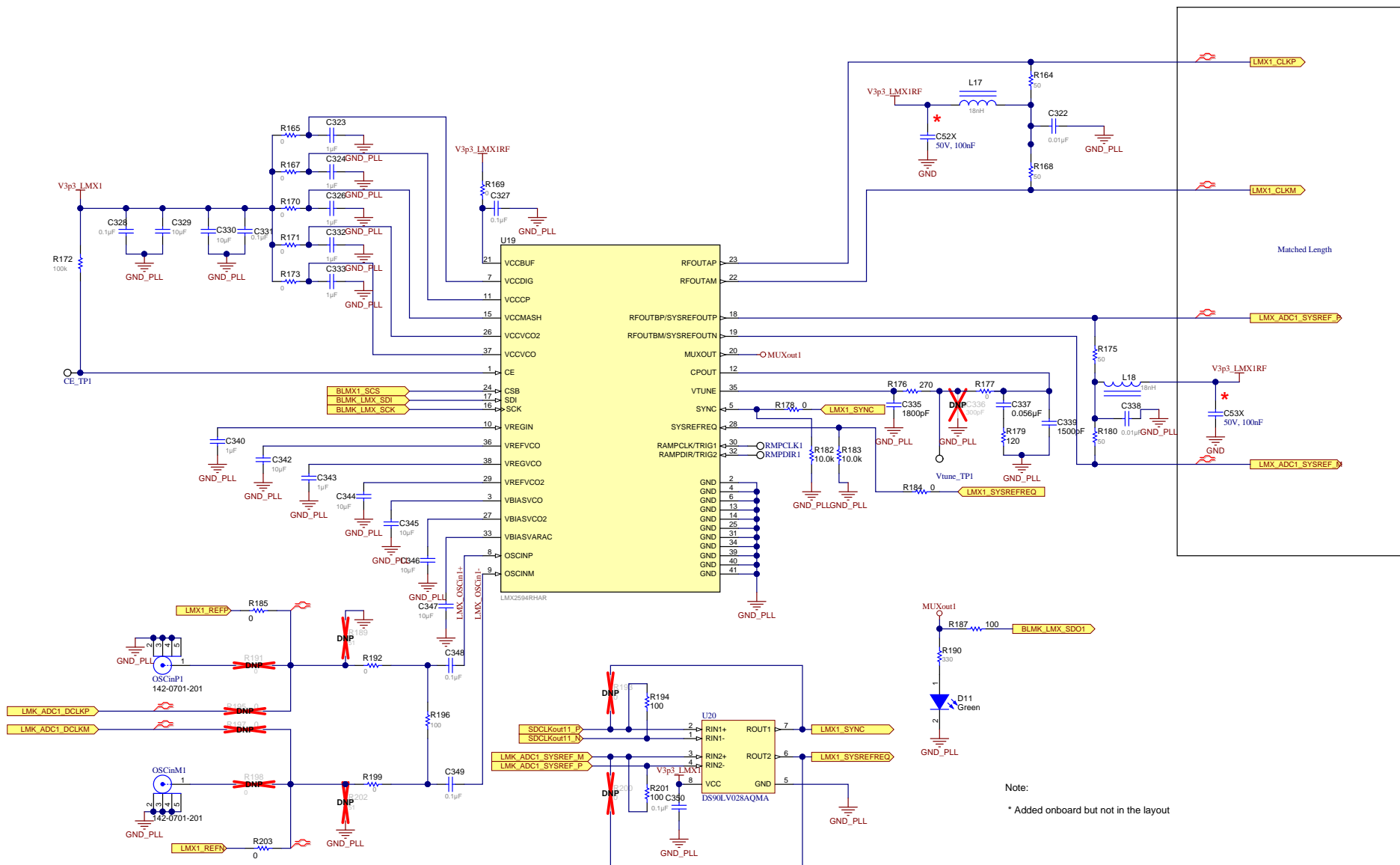
# ADC-2



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Orderable: NA	Designed for: Public Release	Mod. Date: 8/4/2017
TID #: 01022	Project Title: TIDA-01022	
Number: TIDA-01022   Rev: E2	Sheet Title: ADC12DJ3200 1PWR	
SVN Rev. Version control disabled	Assembly Variant: TIDA-01022A Onboard Power	Sheet: 9 of 26
Drawn By: Avinash N	File: TIDA-01022-E2_ADC12DJ3200_2PWR_SchDoc	Size: B
Engineer: Anbu Mani	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	

## LMX2594 -1



Note:

\* Added onboard but not in the layout

Orderable: <b>NA</b>	Designed for: <b>Public Release</b>	Mod. Date: 12/8/2017
Order #.: <b>01022</b>	Project Title: <b>IDA-01022</b>	
Number: <b>IDA-01022</b>	Rev: <b>E2</b>	
SVN Rev: Version control disabled		
Drawn by: <b>Avinash N</b>	Sheet Title: <b>IDA-01022A Onboard Polysheet: 10 of 26</b>	
Engineer: <b>Anbu Mani</b>	Contact: <b>http://www.iti.com/support</b>	Size: <b>B</b>



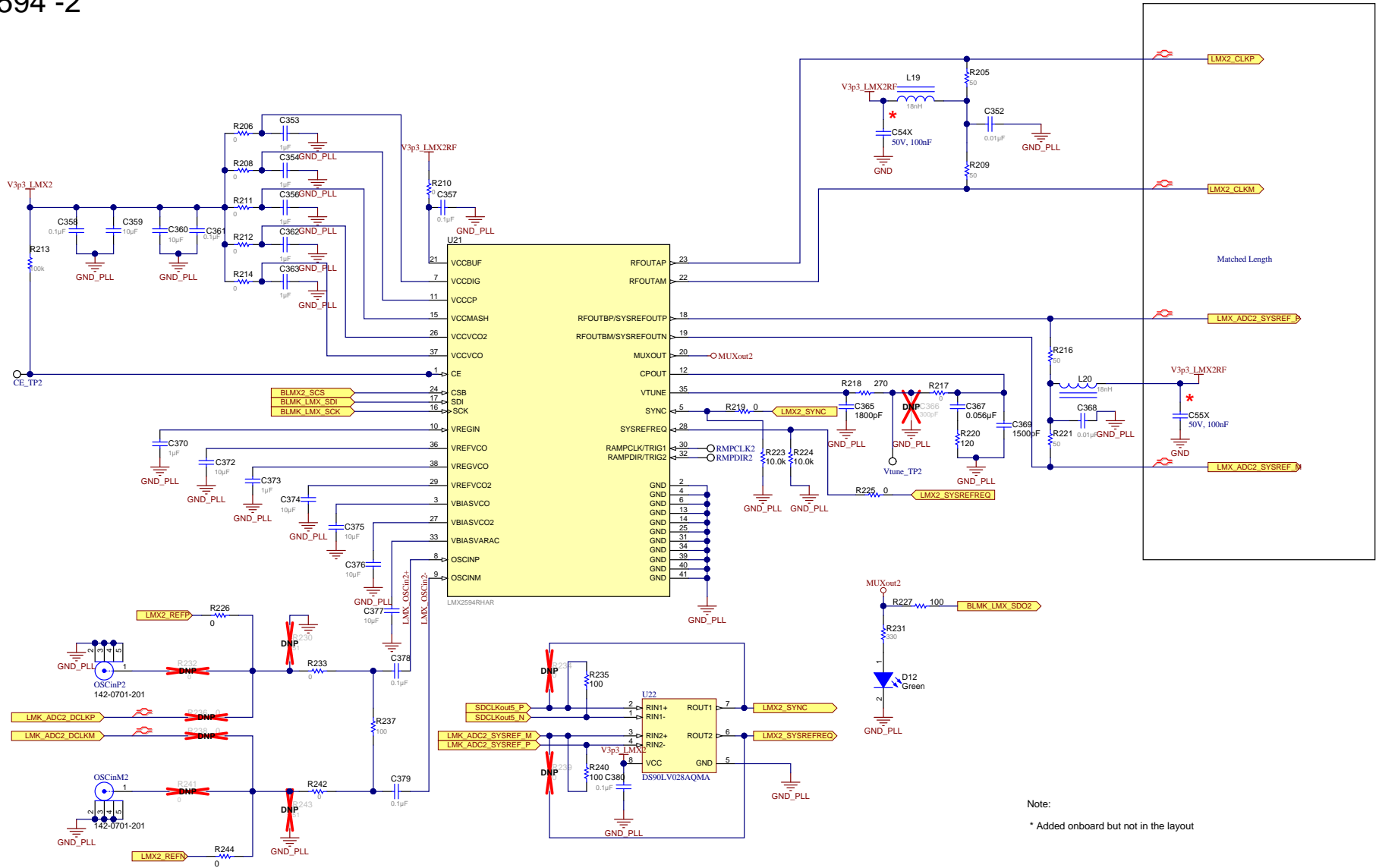
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## LMX2594 -2

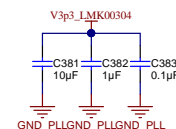


**Note:**

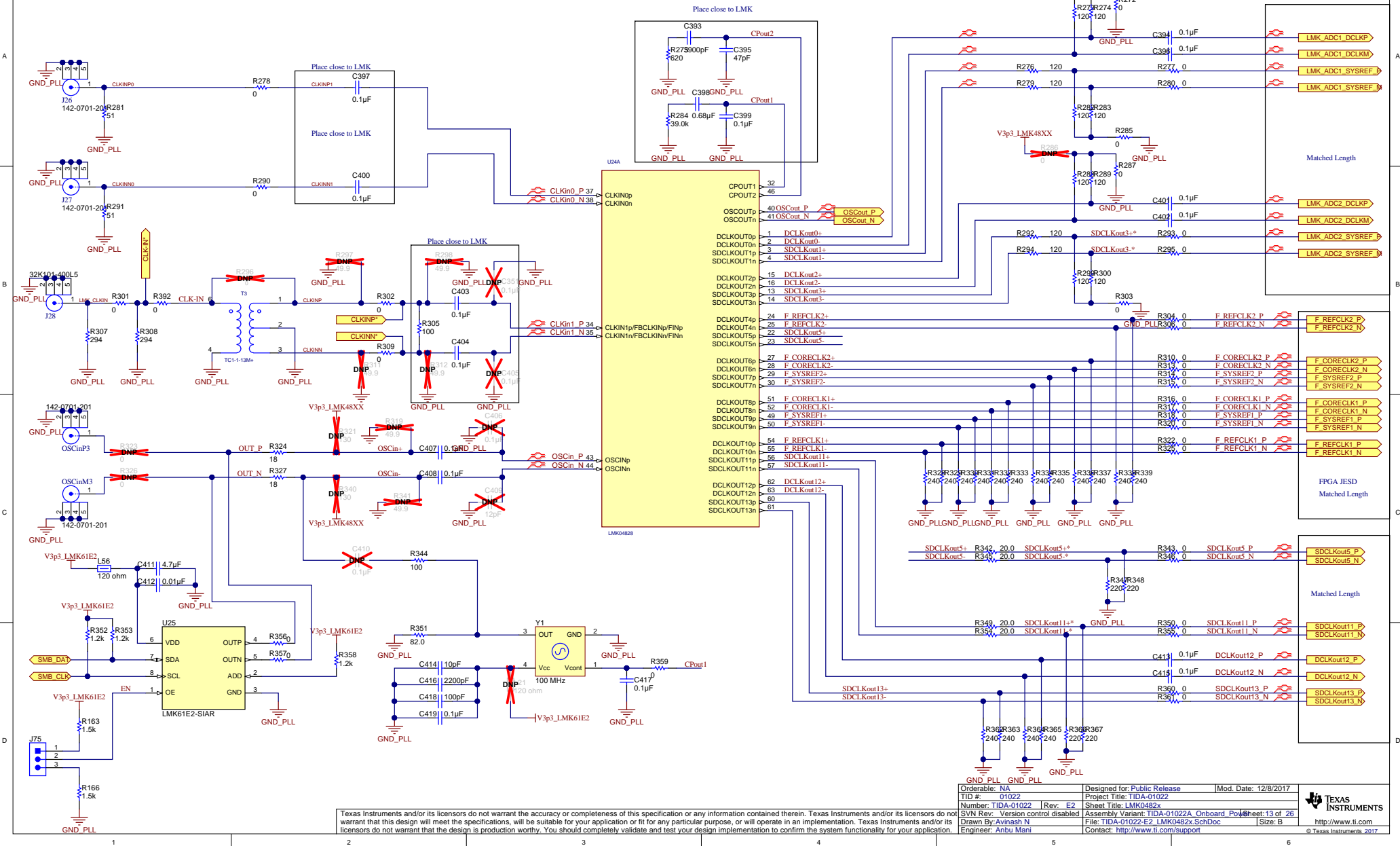
\* Added onboard but not in the layout

Orderable: <a href="#">NA</a>	Designed for: <a href="#">Public Release</a>	Mod. Date: 12/8/2017	 <b>TEXAS INSTRUMENTS</b> <a href="http://www.ti.com">http://www.ti.com</a> © Texas Instruments 2017
TID #: <a href="#">01022</a>	Project Title: <a href="#">TIDA-01022</a>		
Number: <a href="#">TIDA-01022</a> Rev: <a href="#">E2</a>	Sheet Title: <a href="#">LTXM2594R</a>		
SVN Rev: Version control disabled	Assembly Variant: <a href="#">TIDA-01022A Onboard Power</a>	Sheet: <a href="#">11 of 26</a>	
Drawn by: <a href="#">Avishan N</a>	File: <a href="#">TIDA-01022-E2_LMX2594R_2_SchDoc</a>	Size: B	
Engineer: <a href="#">Anubh Mani</a>	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>		

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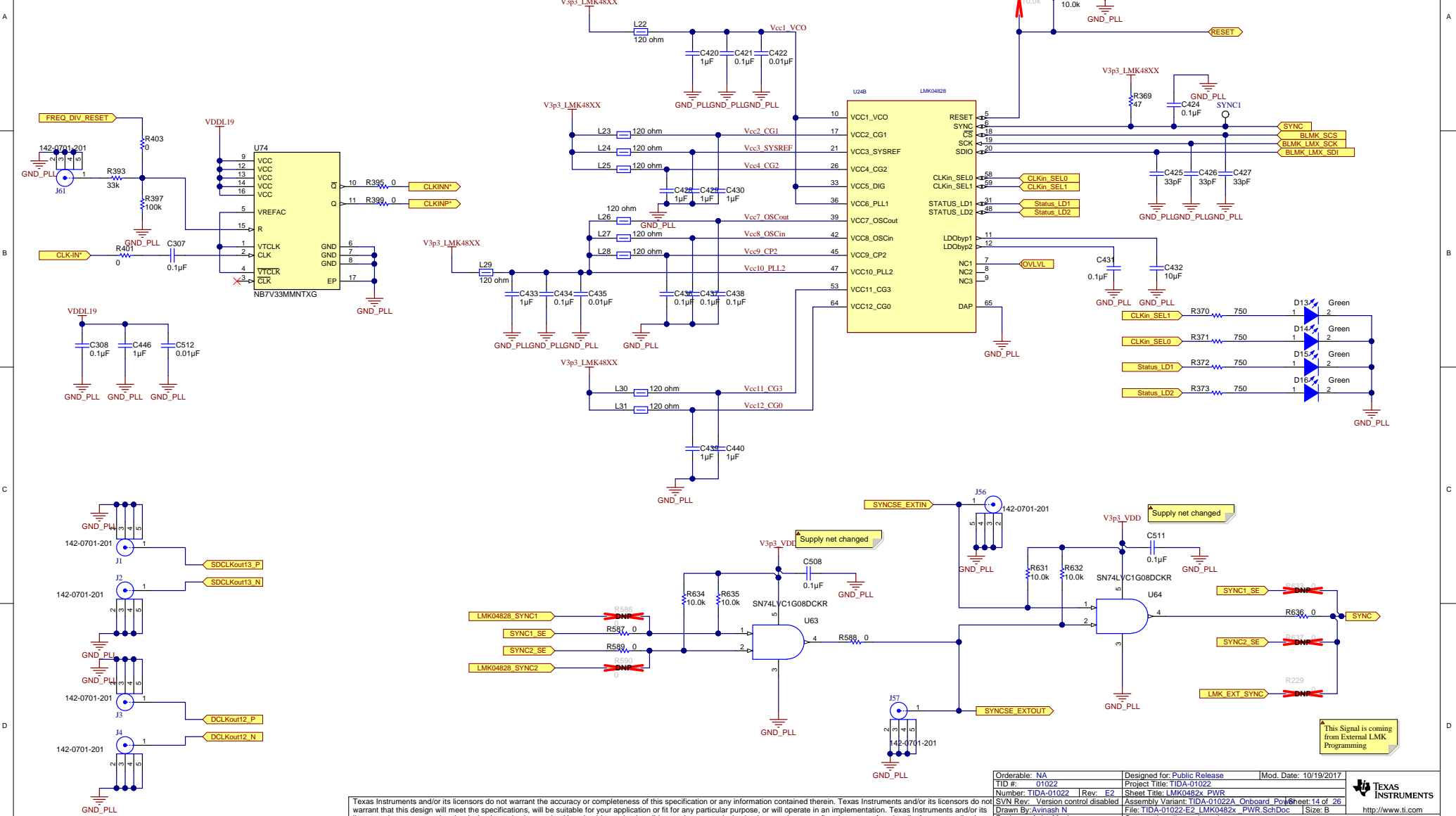


## LMK 04828/32

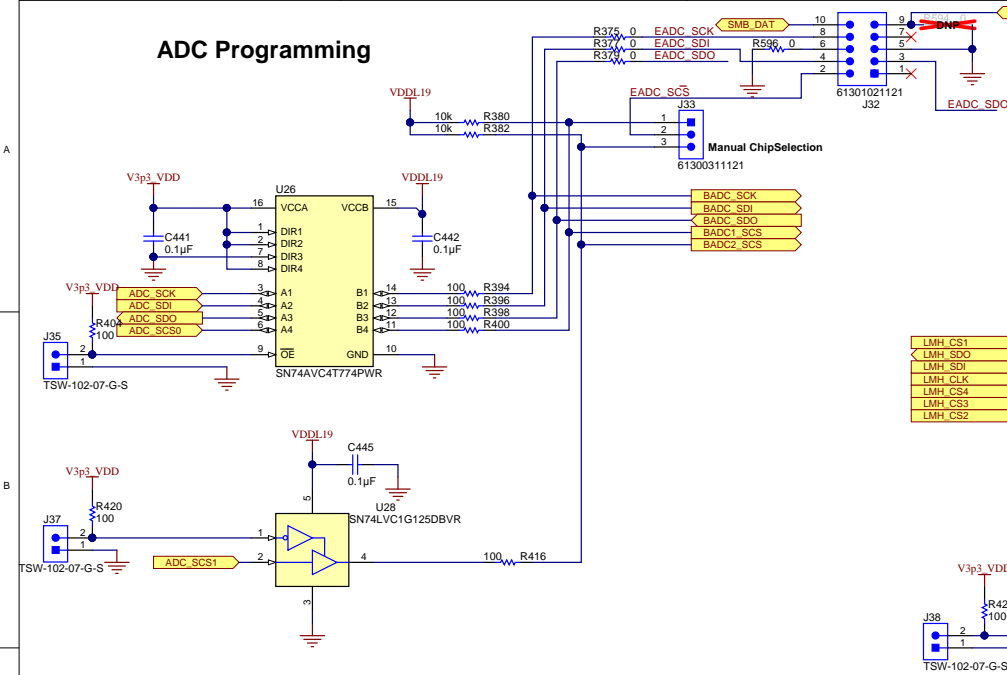


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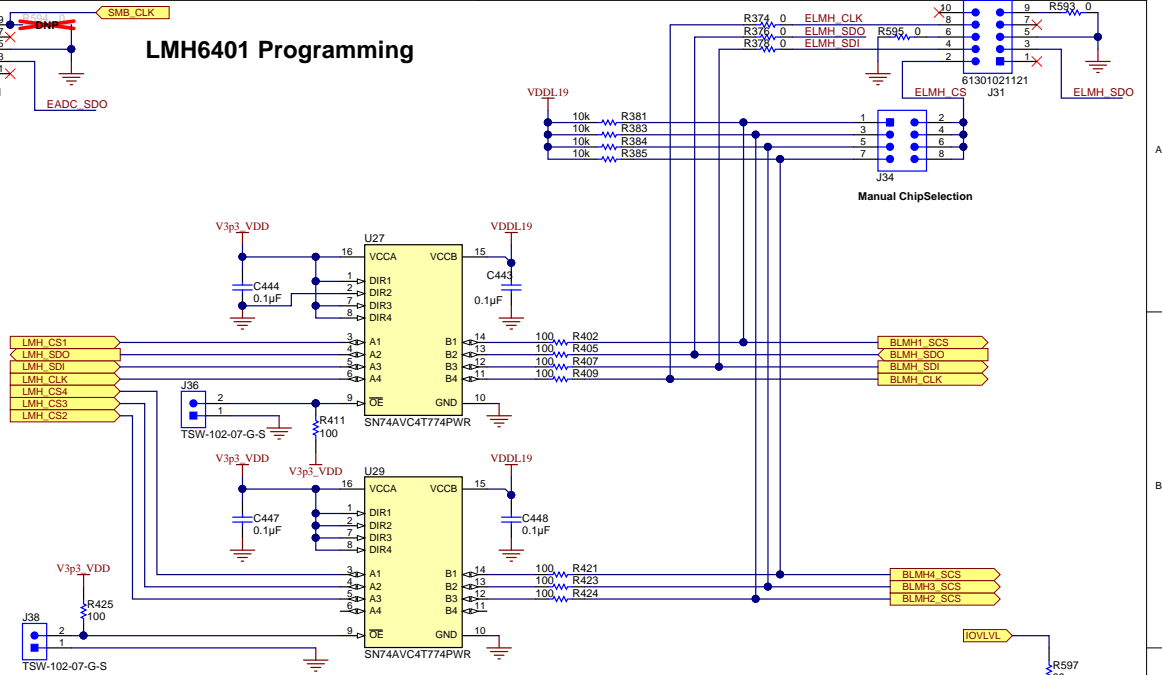
# LMK 04828/32



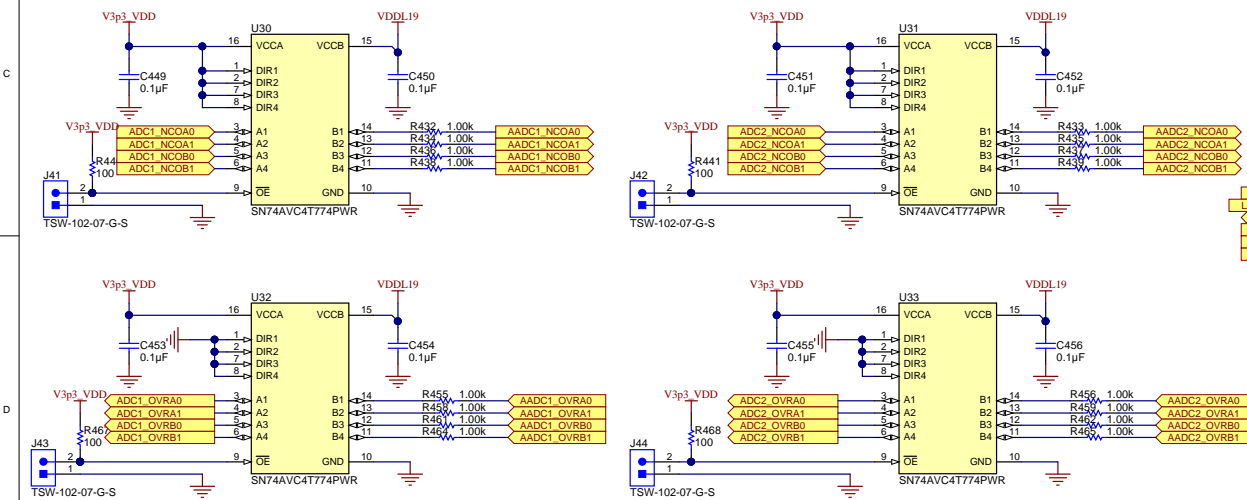
## ADC Programming



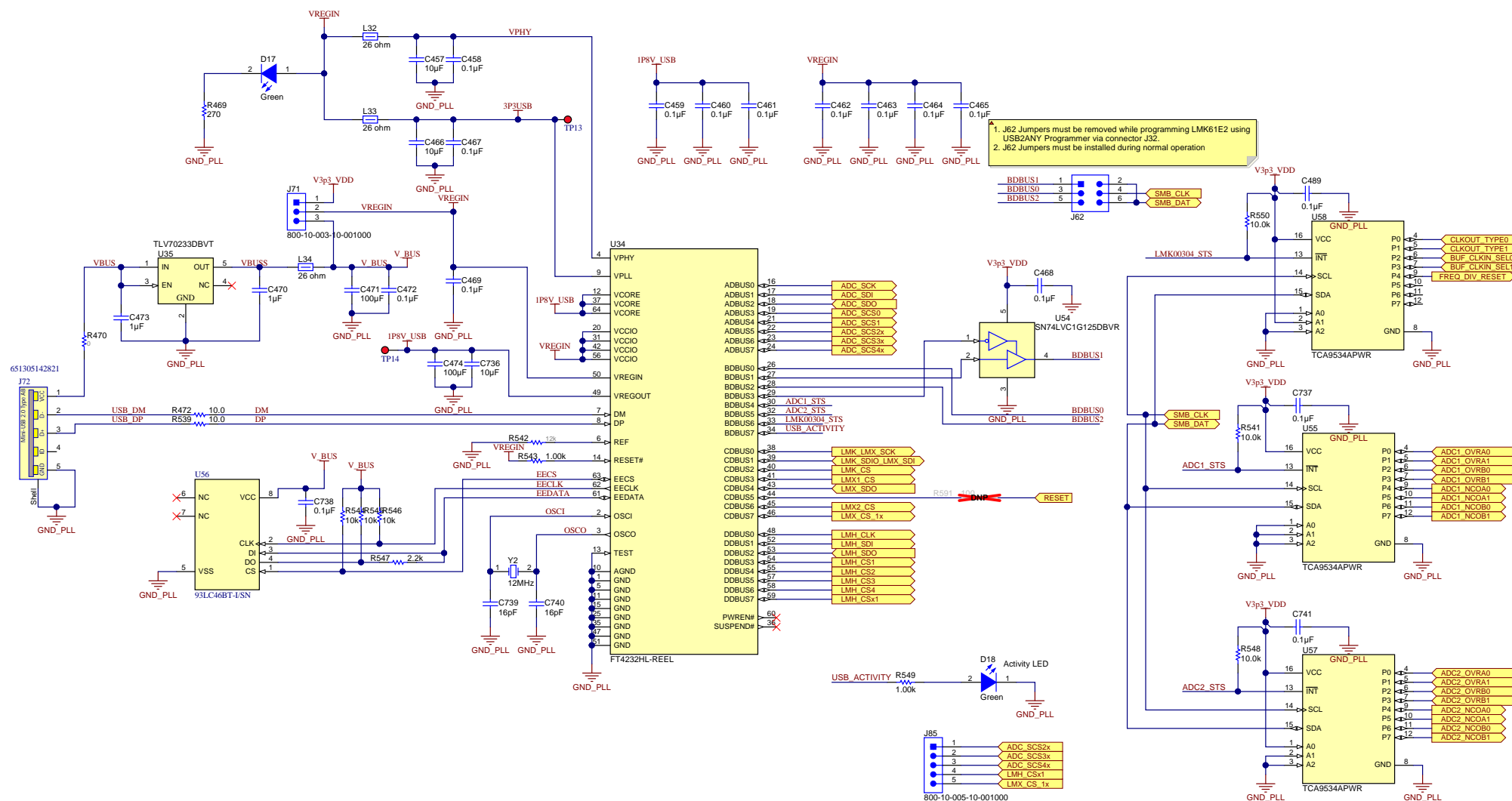
## LMH6401 Programming




## ADC1 & 2 OverRange & NCO Selection



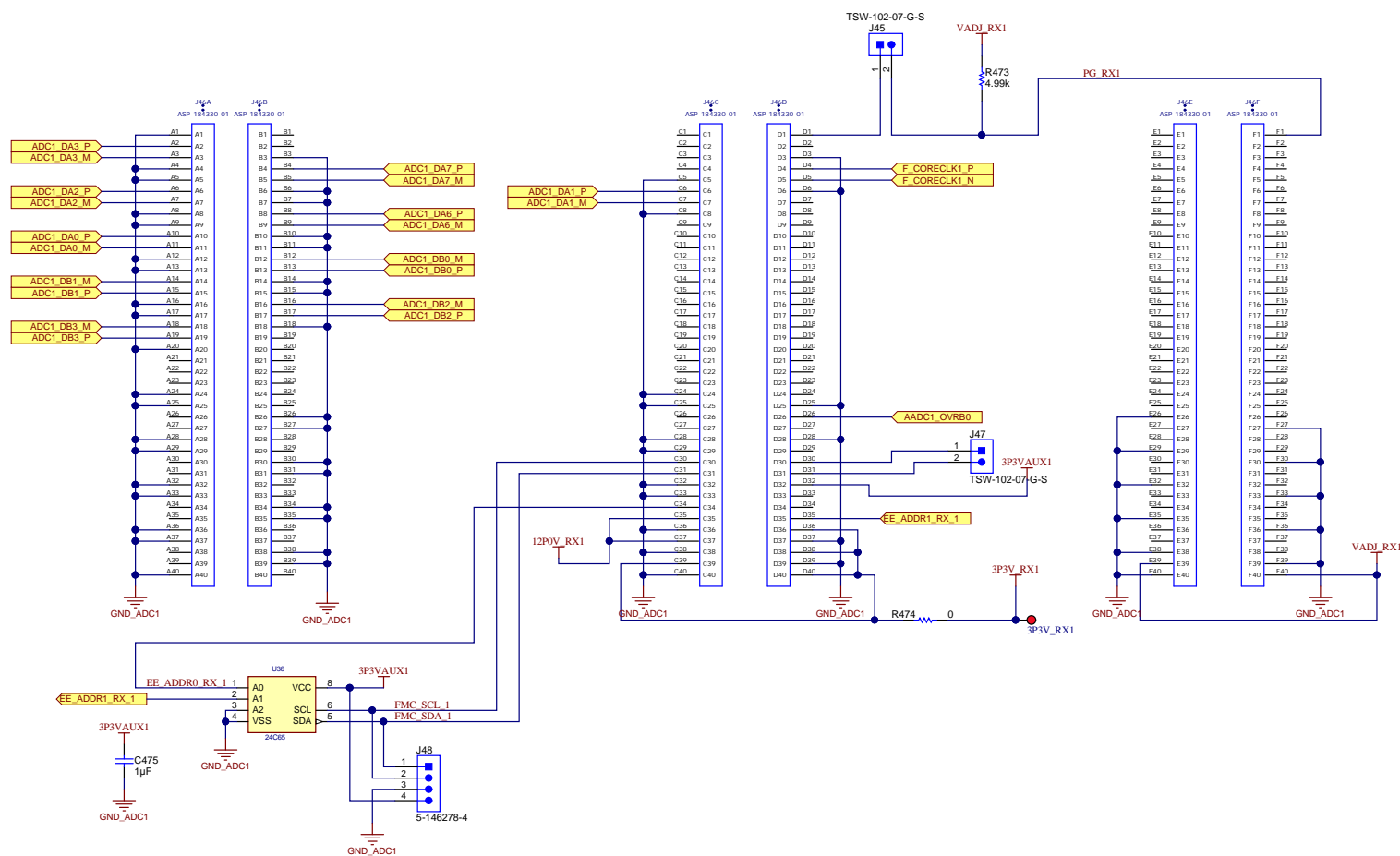
## USB to SPI Interface




Orderable: <b>NA</b>	Designed for: <b>Public Release</b>	Mod. Date: 12/8/2017	 <b>TEXAS</b> <b>INSTRUMENTS</b>
TID #: <b>01022</b>	Project Title: <b>TIDA-01022</b>		
Number: <b>TIDA-01022</b>	Rev: <b>E2</b>	File Size: <b>USB</b>	
SVN Rev: Version control disabled	Assembly Variant: <b>TIDA-01022A Onboard</b>	Sheet: <b>16 of 26</b>	
Drawn by: <b>Avynash N</b>	File: <b>TIDA-01022-E2 USB SchDoc</b>	Size: <b>B</b>	
Engineer: <b>Anubh Mani</b>	Contact: <b>http://www.ti.com/support</b>		<a href="http://www.ti.com">http://www.ti.com</a> © Texas Instruments, 2017



## ADC1 FMC+\_1 Connector



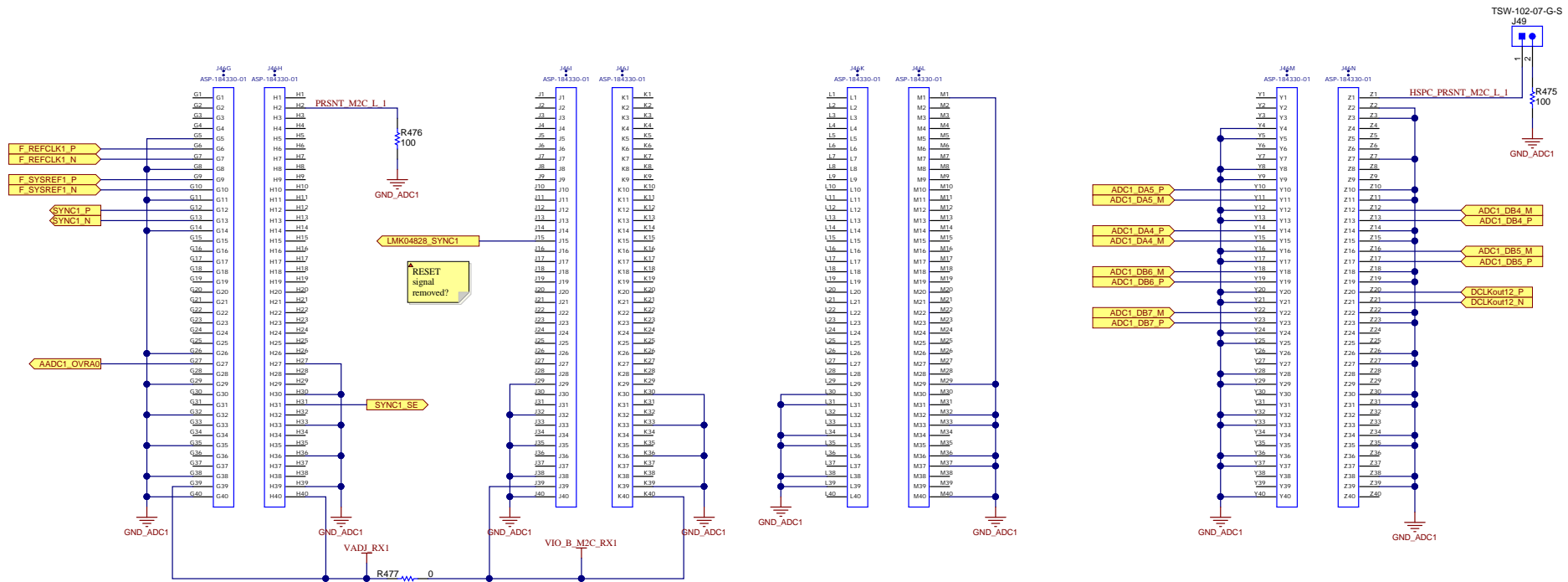
Orderable: NA	Designed for Public Release	Mod. Date: 12/8/2017
TID: 01022	Project Title: TIDA-01022	
Number: TIDA-01022	Rev: E2	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A Onboard Polys	Sheet: 17 of 26
Drawn by: Avinash N	File: TIDA-01022-E2_FMC+CONN1_1_SchDoc	Size: B
Engineer: Anbu Mani	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	<a href="http://www.ti.com">http://www.ti.com</a>



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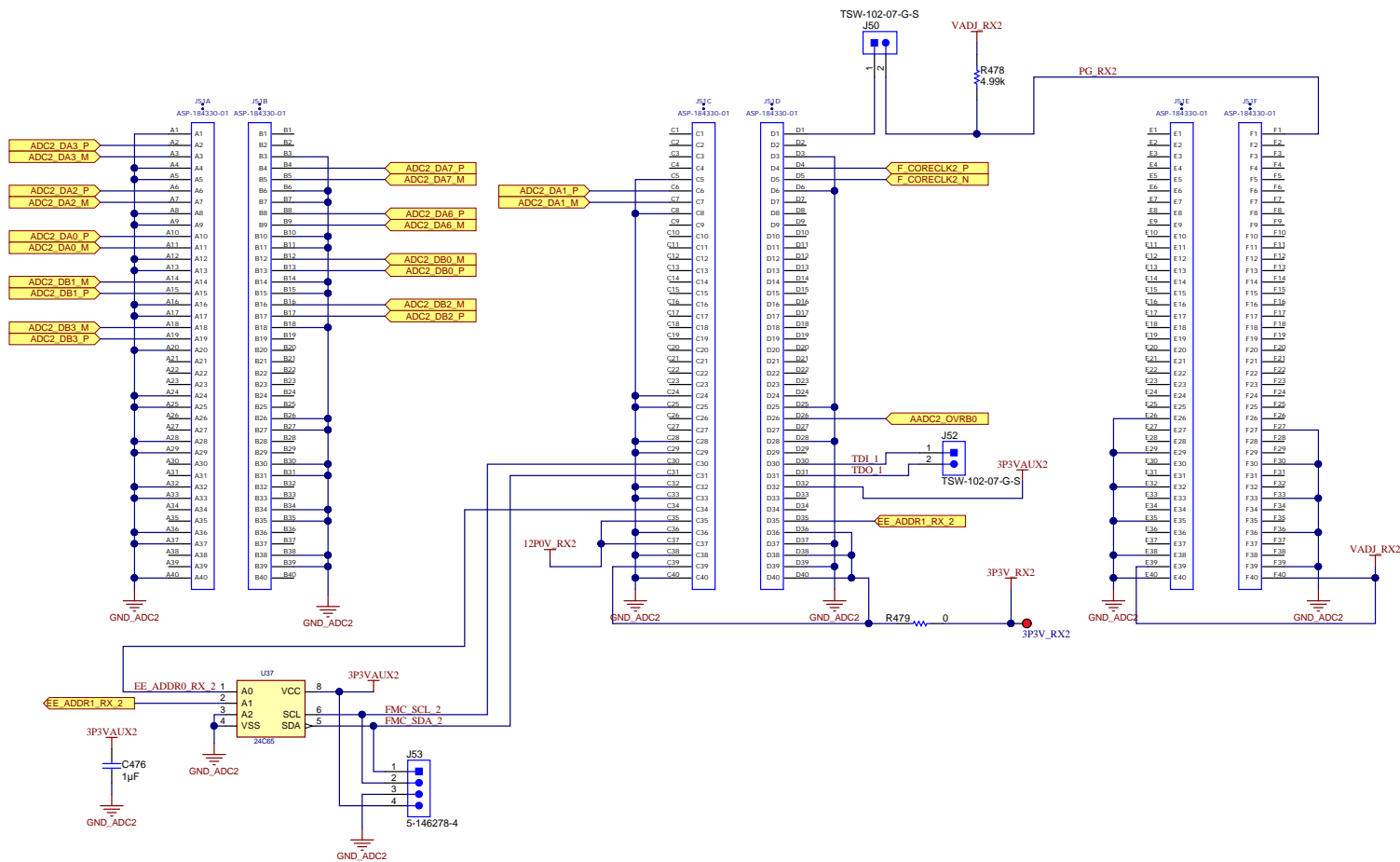
# ADC1 FMC+\_1 Connector



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Orderable: NA	Designed for: Public Release	Mod. Date: 10/24/2017
TID #: 01022	Project File: TIDA-01022	
Number: TIDA-01022   Rev: E2	Sheet Title: FMC+CONN1	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A_Onboard_Pol	Sheet: 18 of 26
Drawn By: Avinash N	File: TIDA-01022-E2_FMC+CONN1_2_SchDoc	Size: B
Engineer: Anbu Mani	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	

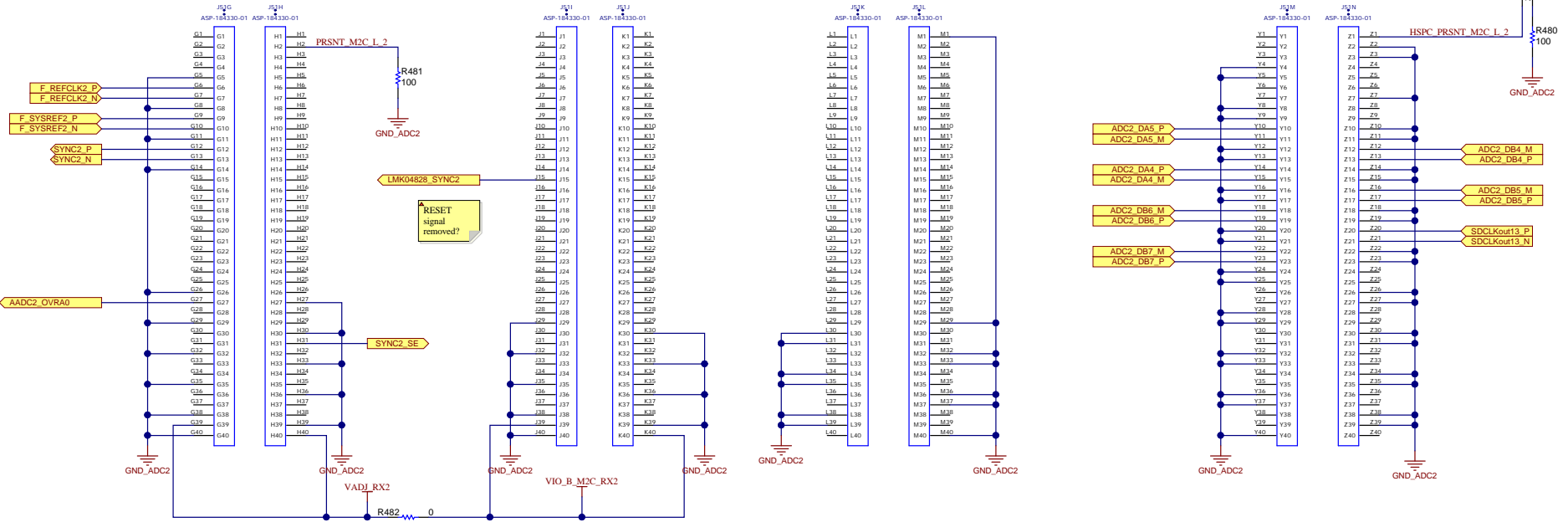
# ADC1 FMC+\_2 Connector

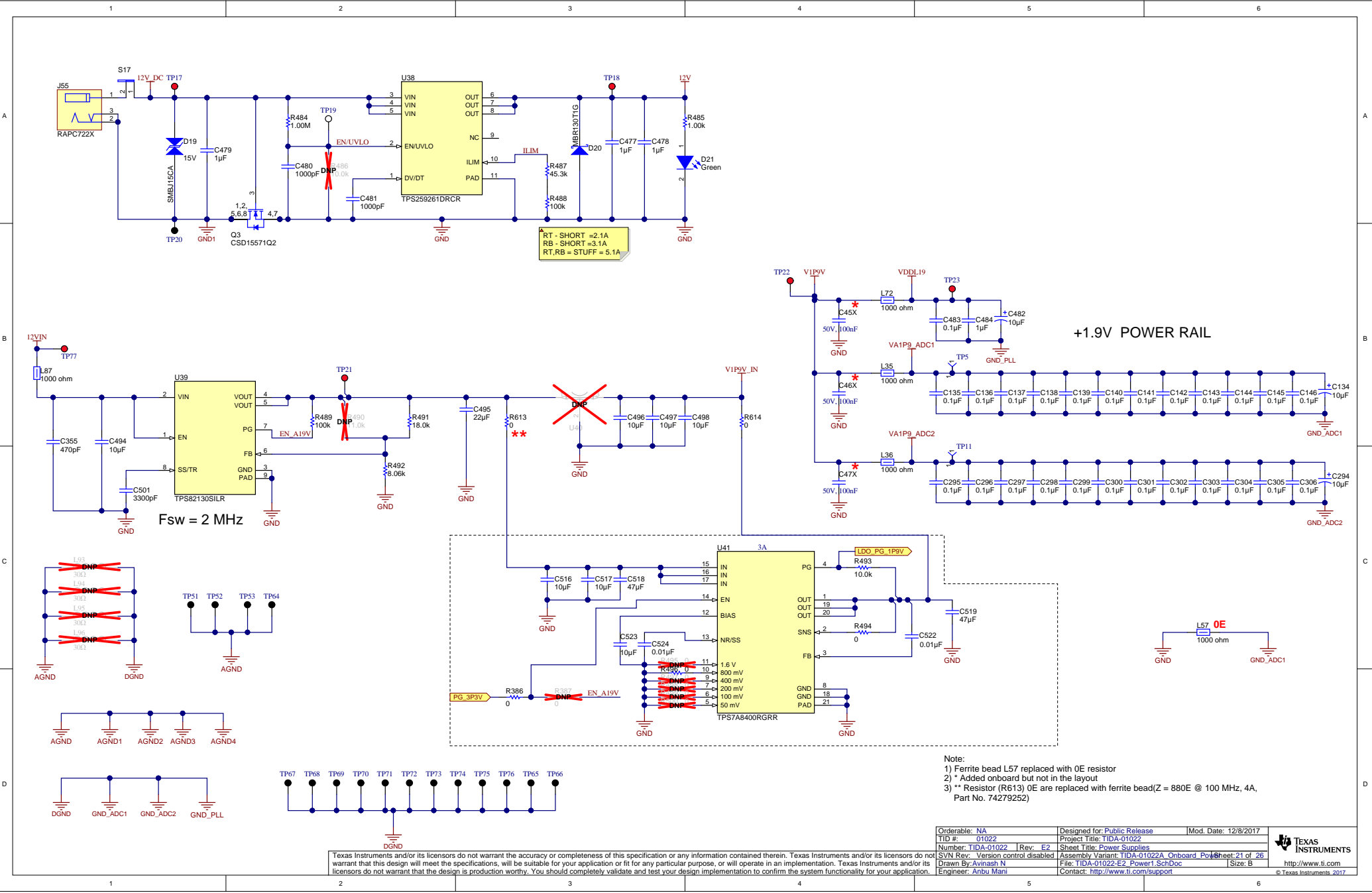


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Orderable: NA	Designed for: Public Release	Mod. Date: 12/8/2017
TID #: 01022	Project File: TIDA-01022	
Number: TIDA-01022   Rev: E2	Sheet Title: FMC+CONN2	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A Onboard Power	Sheet: 19 of 26
Drawn By: Avinash N	File: TIDA-01022-E2_FMC+CONN2_1.SchDoc	Size: B
Engineer: Anbu Mani	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	

# ADC1 FMC+\_2 Connector



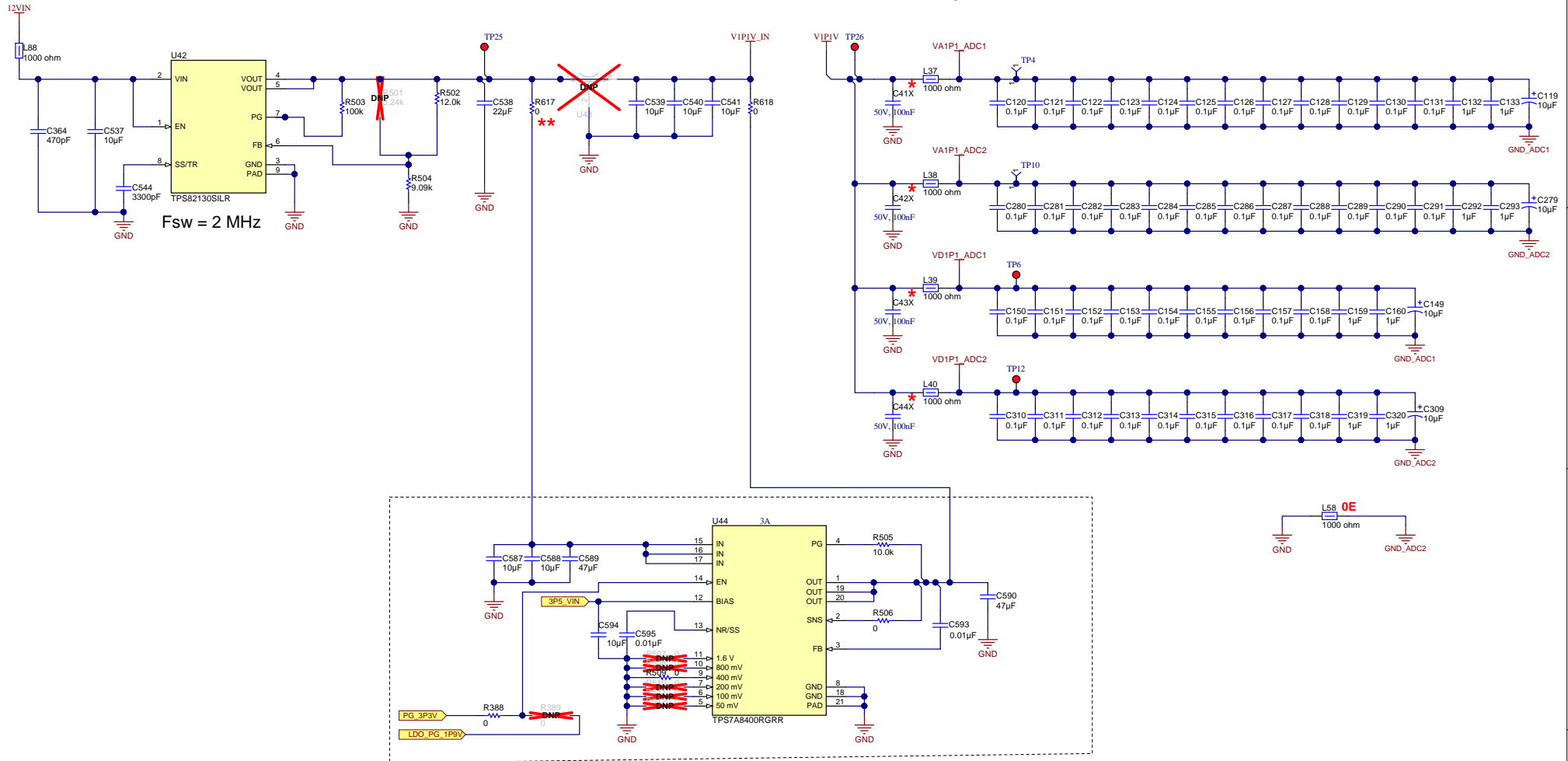


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Orderable: NA	Designed for: Public Release	Mod. Date: 12/8/2017
TID #: 01022	Project Title: TIDA-01022	
Number: TIDA-01022   Rev: E2	Sheet Title: Power Supplies	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A_Onboard_Pwr	Sheet: 21 of 26
Drawn By: Avinash N	File: TIDA-01022-E2_Power1_SchDoc	Size: B
Engineer: Anbu Mani	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	



# +1.1V POWER RAIL

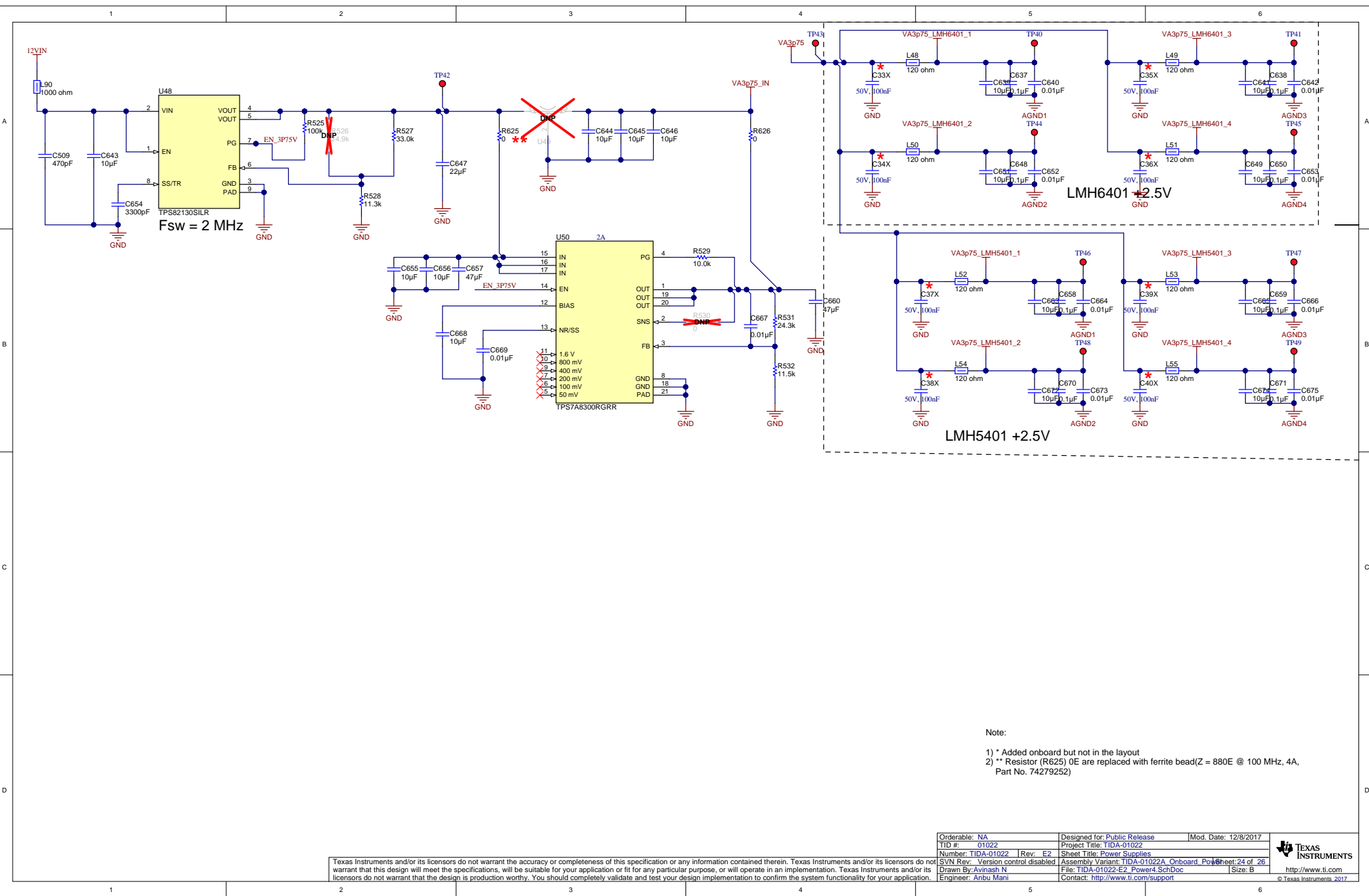


- Note:
- 1) Ferrite bead L58 replaced with 0E resistor
  - 2) \* Added onboard but not in the layout
  - 3) \*\* Resistor (R617) 0E are replaced with ferrite bead(Z = 880E @ 100 MHz, 4A,Part No. 74279252)

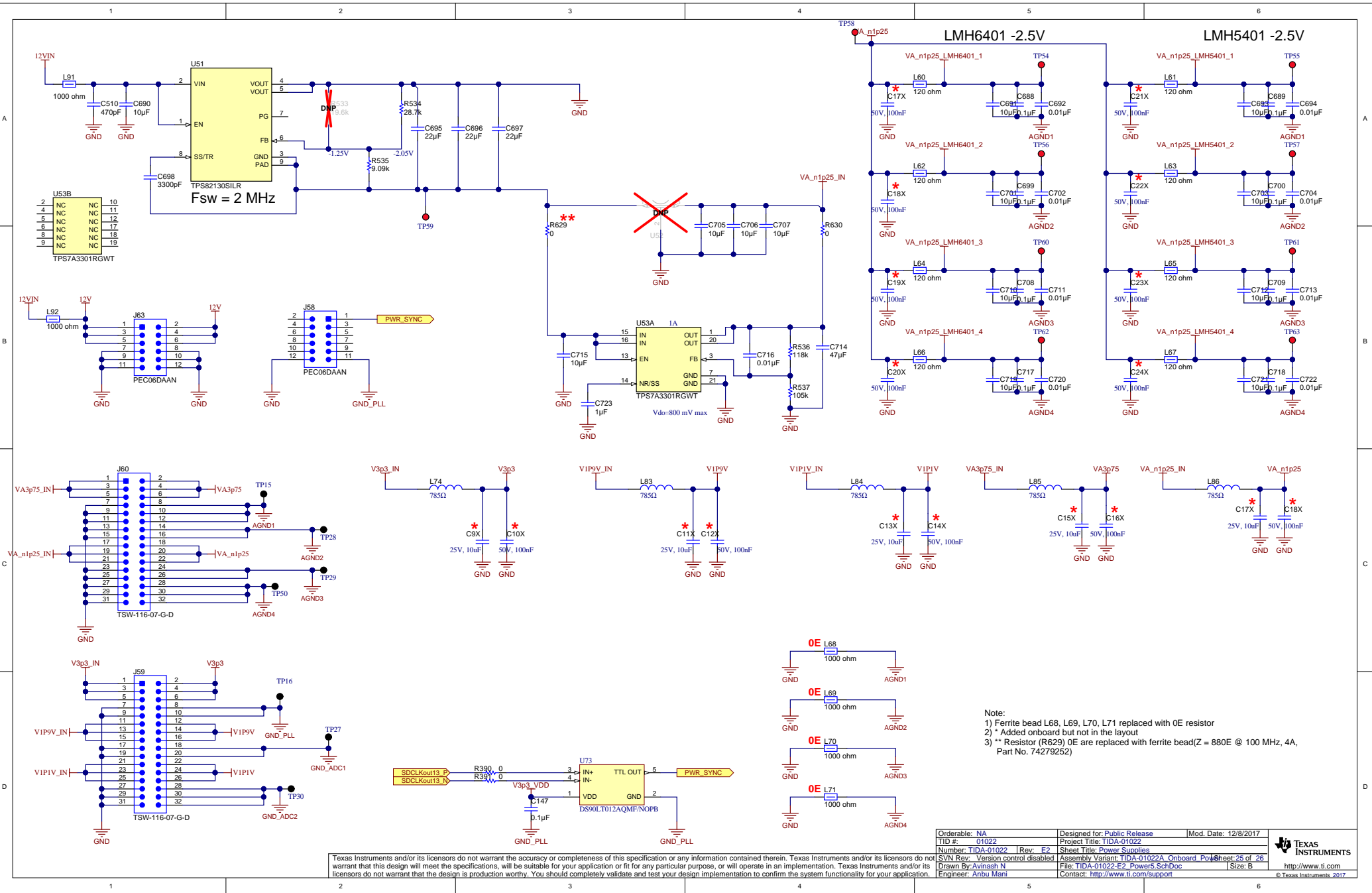
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Orderable: NA	Designed for: Public Release	Mod. Date: 12/8/2017
TID #: 01022	Project Title: TIDA-01022	
Number: TIDA-01022   Rev: E2	Sheet Title: Power Supplies	
SVN Rev: Version control disabled	Assembly Variant: TIDA-01022A_Onboard_Power	Sheet: 22 of 26
Drawn By: Avinash N	File: TIDA-01022-E2_Power2_SchDoc	Size: B
Engineer: Anbu Mani	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	









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Orderable: NA	Designed for: Public Release	Mod. Date: 12/8/2017
TID #: 01022	Project Title: TIDA-01022	
Number: TIDA-01022   Rev: E2	Sheet Title: Power Supplies	
SVN Rev. Version control disabled	Assembly Variant: TIDA-01022A Onboard Power	Sheet: 25 of 26
Drawn By: Avinash N	File: TIDA-01022-E2_Power5.SchDoc	Size: B
Engineer: Anbu Mani	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	



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