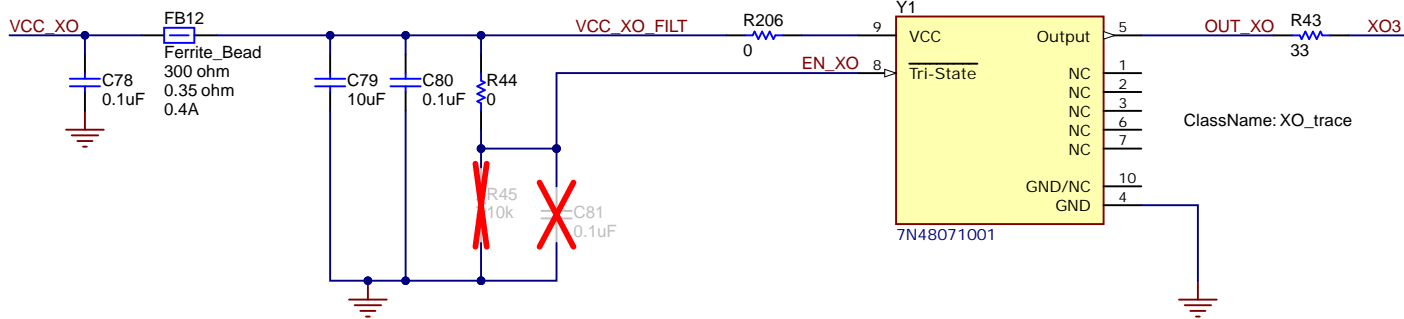


A

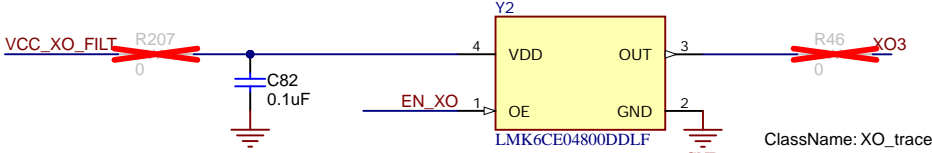
A

3.3V LVCMOS XO (multiple footprints)

48 MHz TCXO  
Connected to LMK device by default.



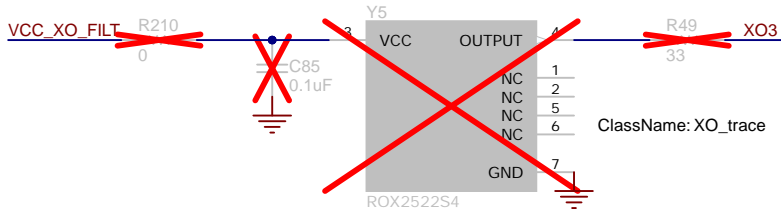
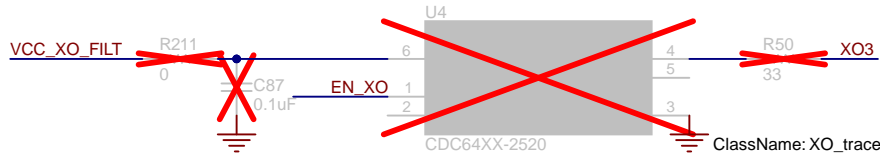
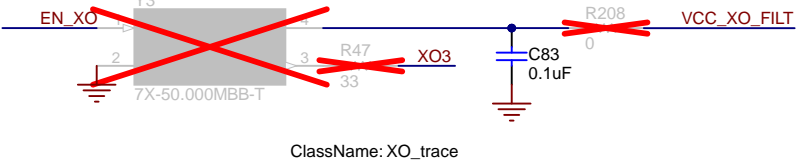
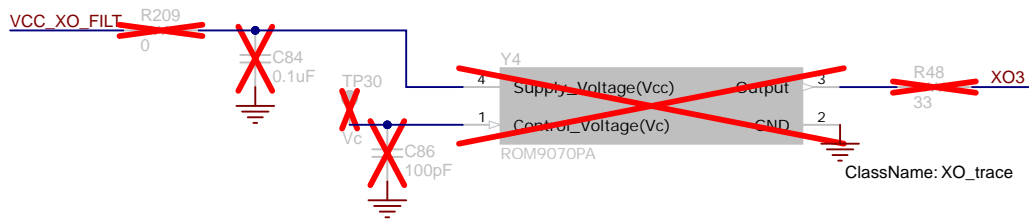
48 MHz BAW Oscillator  
Not connected to LMK device by default.



B

B

Other footprint options available (not populated):



C

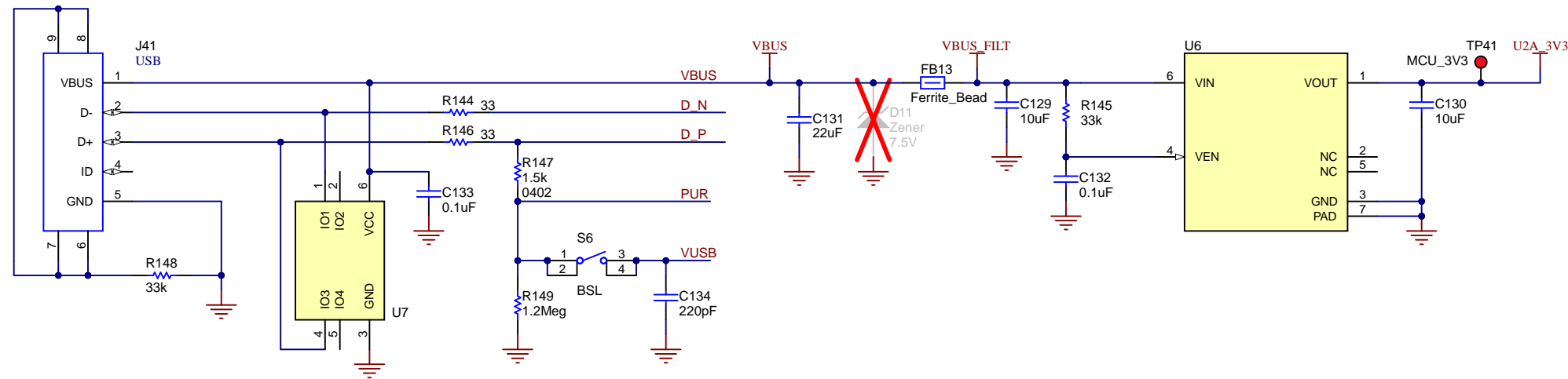
C

D

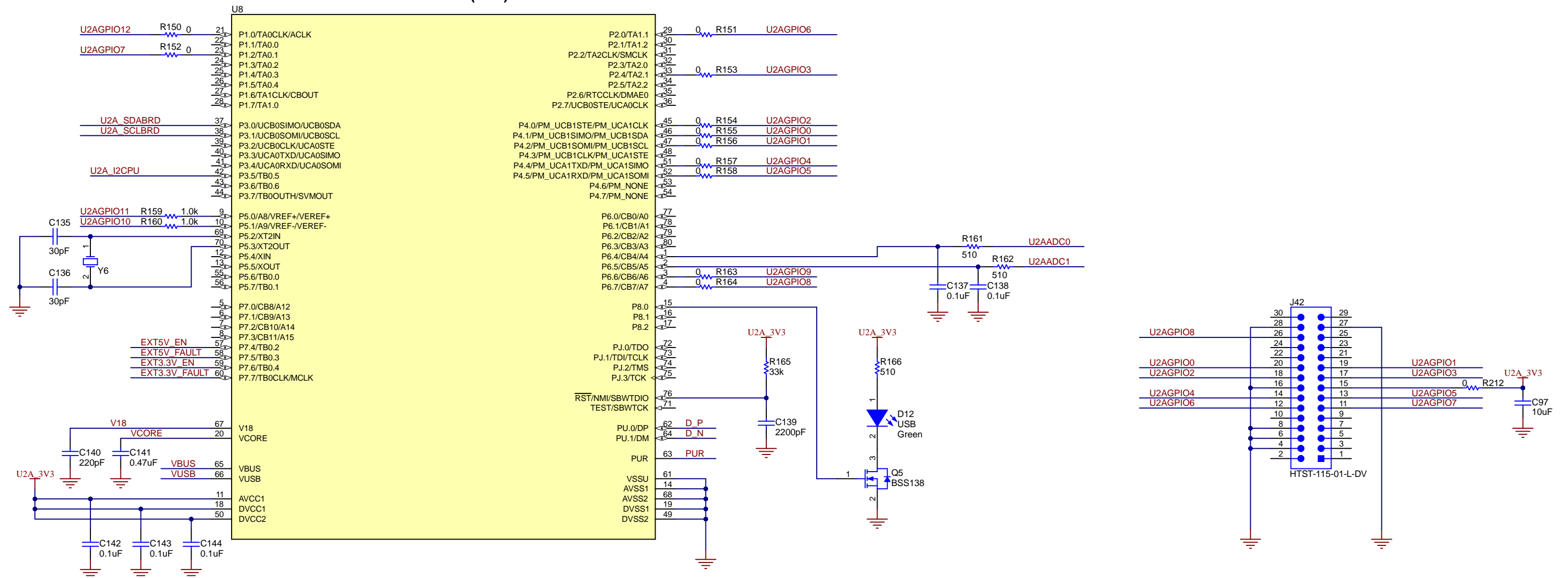
D


## USB MINI-B CONNECTOR

### 3.3V, 150mA REGULATOR



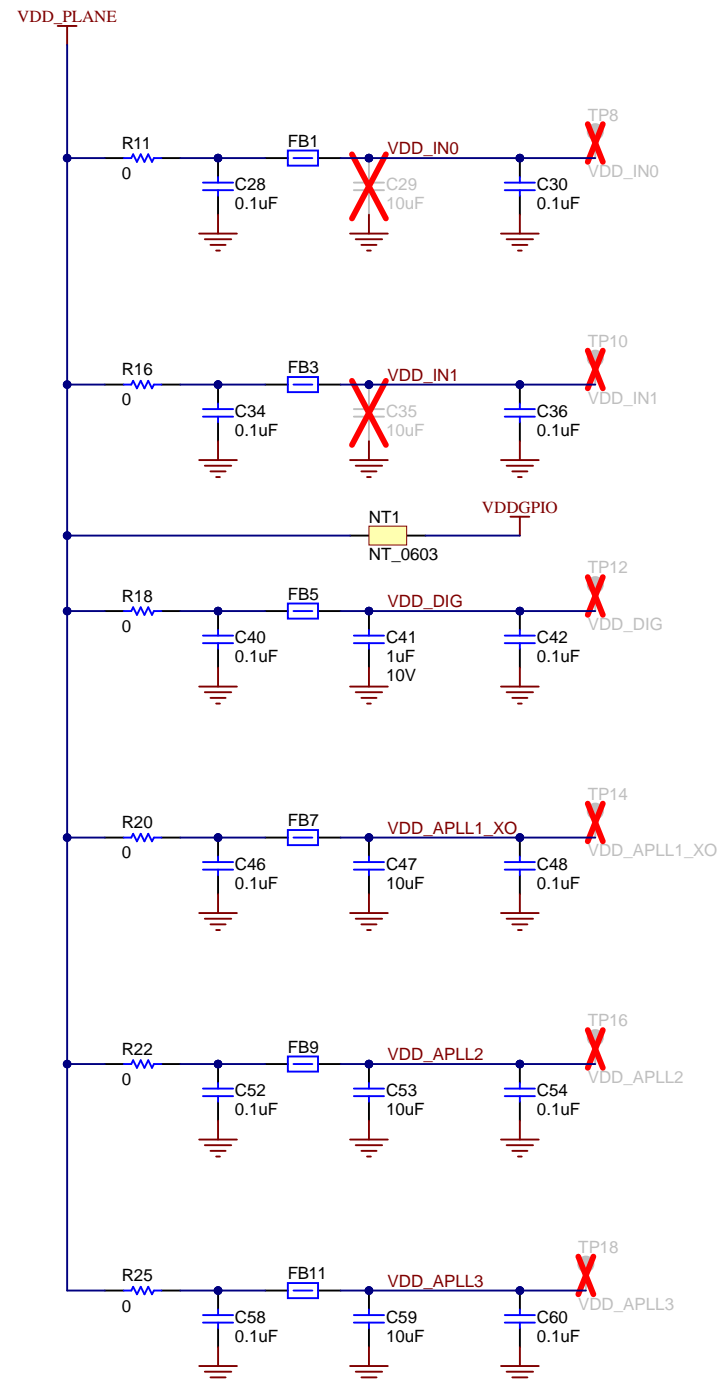
## MSP430 MCU -- "USB2ANY" (U2A) CONTROLLER



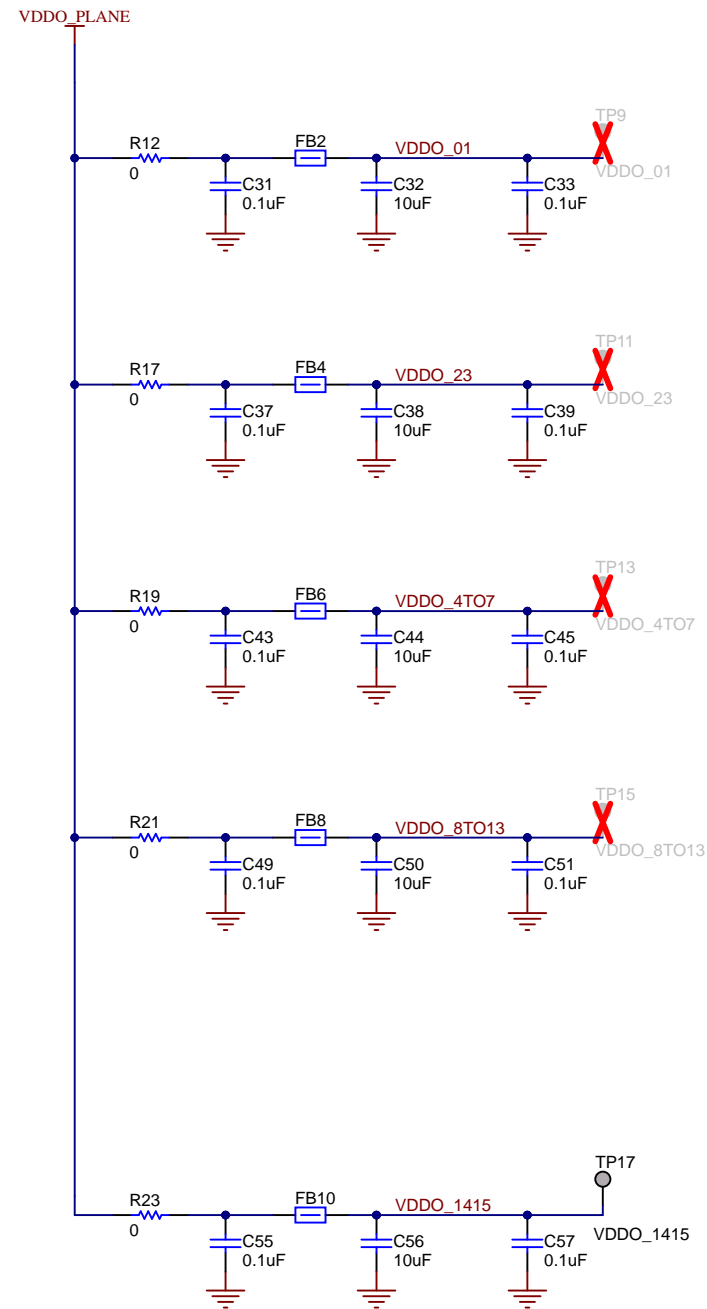
Orderable: <a href="#">ChangeMe in variant</a>	Designed for: <a href="#">Public Release</a>	Mod. Date: 5/18/2022	 <b>TEXAS INSTRUMENTS</b>  <a href="http://www.ti.com">http://www.ti.com</a> © Texas Instruments 2023
TID #: <a href="#">N/A</a>	Project Title: <a href="#">LMK5C33216AEVM</a>		
Number: <a href="#">DC299</a>	Rev: <a href="#">A</a>	Sheet Title:	
SVN Rev: Not in version control	Assembly Variant: <a href="#">001</a>	Sheet: <a href="#">2</a> of <a href="#">3</a>	
Drawn By:	File: <a href="#">DC299A_USB2ANY.SchDoc</a>	Size: B	
Engineer: <a href="#">Jennifer B</a>	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>		

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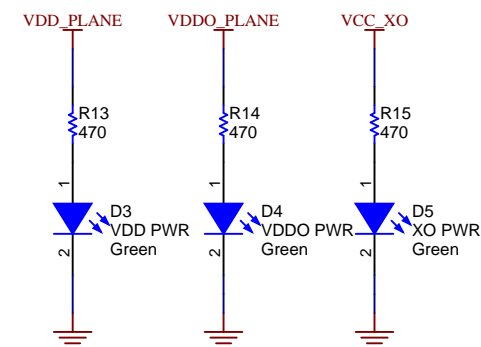
## VDD CORE SUPPLY DIST & FILTERING



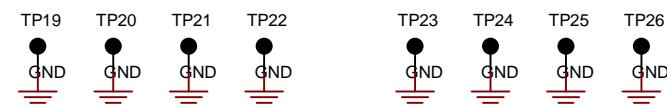
## VDDO OUTPUT SUPPLY DIST & FILTERING



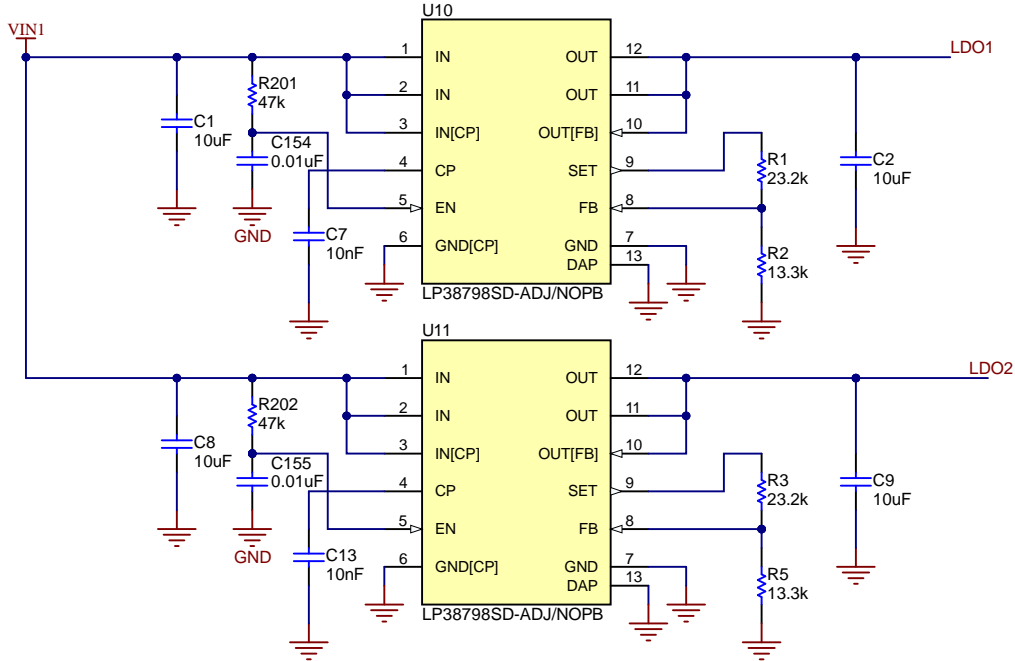
### POWER LED INDICATORS (DUT, XO, TCXO)

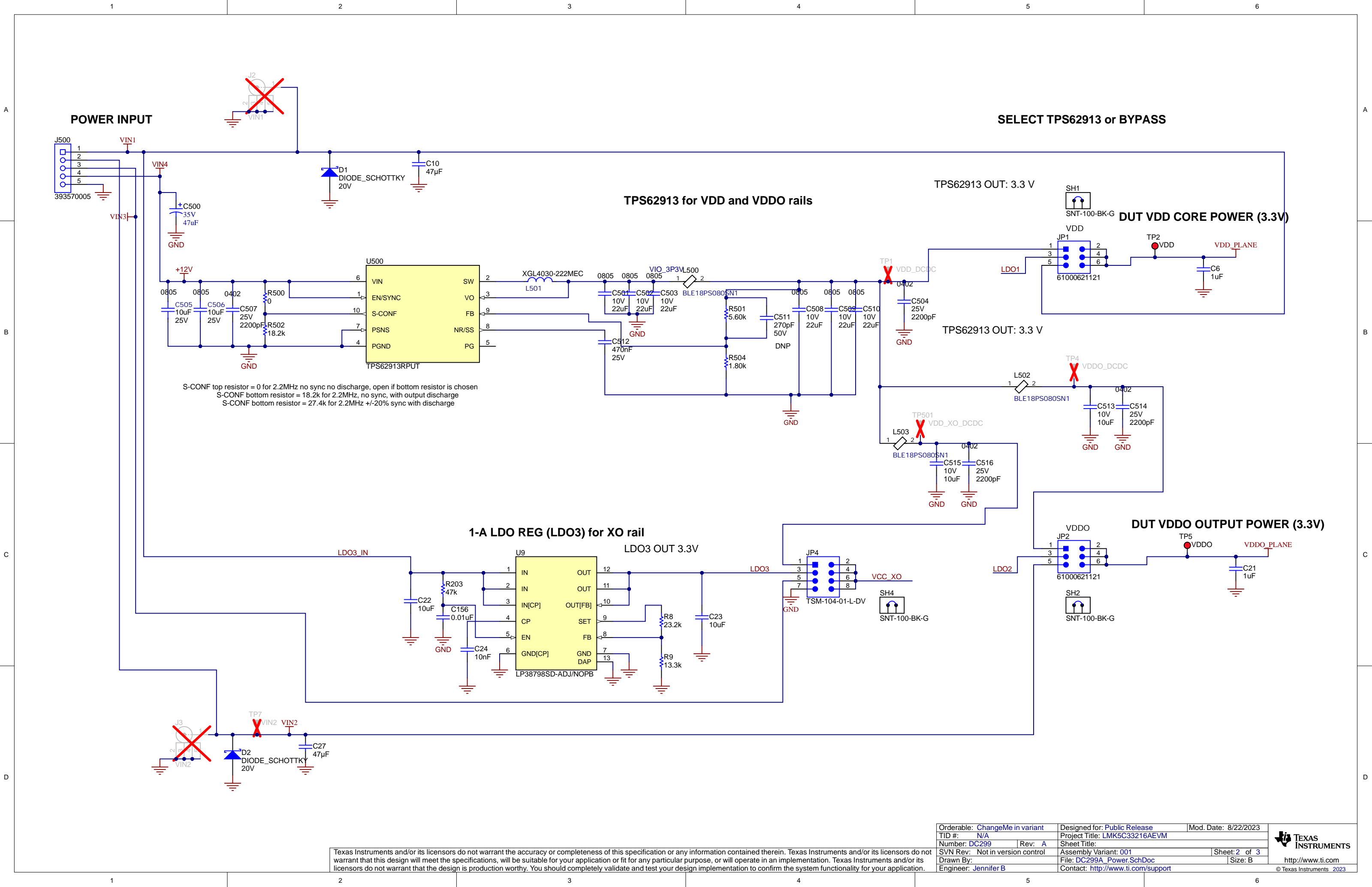


## GND TEST POINTS



1-A LDO REG (LDO1, LDO2) for DUT VDD & VDDO rails





S-CONF top resistor = 0 for 2.2MHz no sync no discharge, open if bottom resistor is chosen  
S-CONF bottom resistor = 18.2k for 2.2MHz, no sync, with output discharge  
S-CONF bottom resistor = 27.4k for 2.2MHz +/-20% sync with discharge

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Number: <a href="#">DC299</a>	Rev: <a href="#">A</a>	Sheet Title:
SVN Rev: <a href="#">Not in version control</a>	Assembly Variant: <a href="#">001</a>	Sheet: <a href="#">2</a> of <a href="#">3</a>
Drawn By:	File: <a href="#">DC299A_Power.SchDoc</a>	Size: <a href="#">B</a>
Engineer: <a href="#">Jennifer B</a>	Contact: <a href="#">http://www.ti.com/support</a>	



## A



## C

□

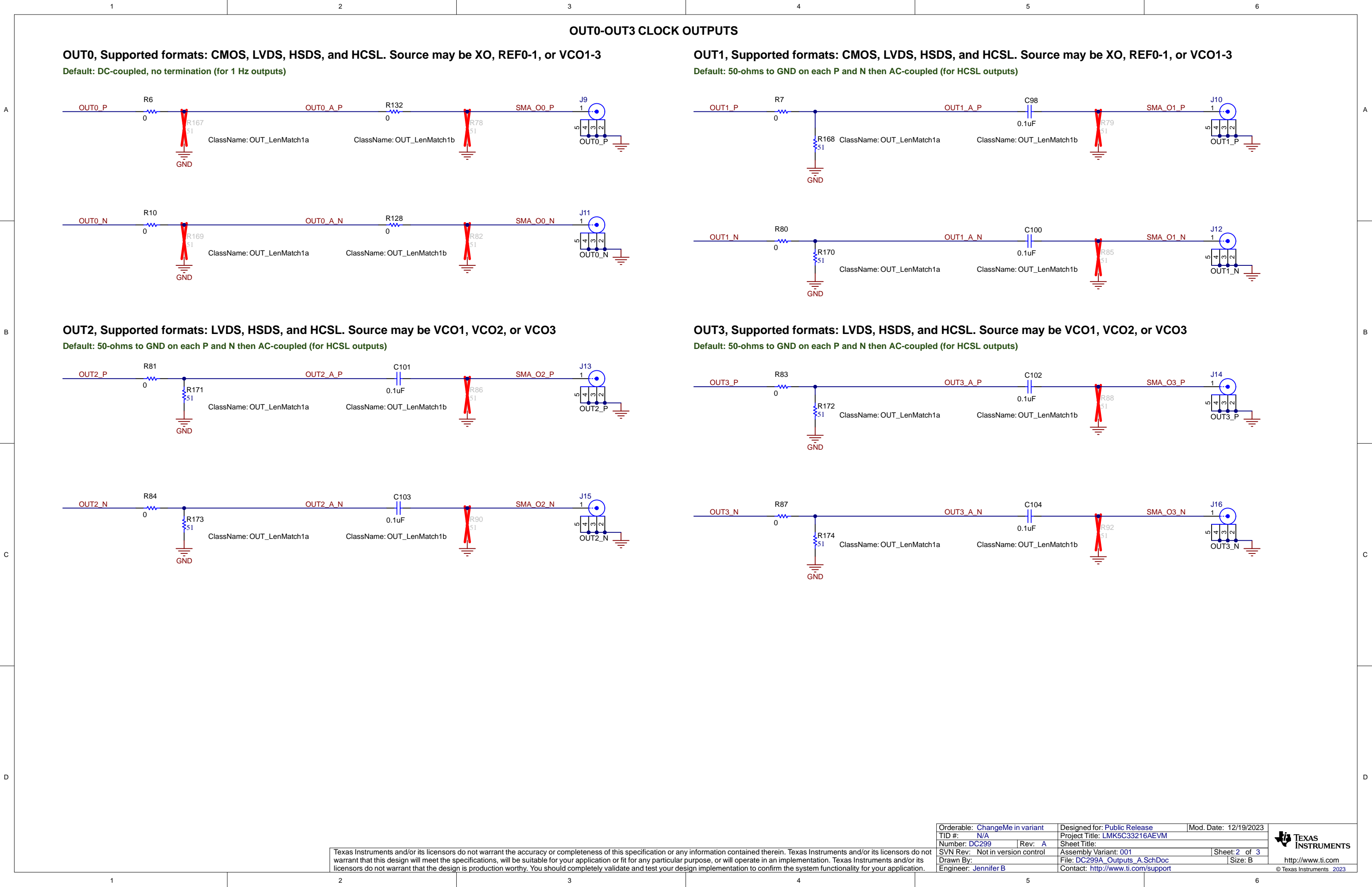
## 91

50

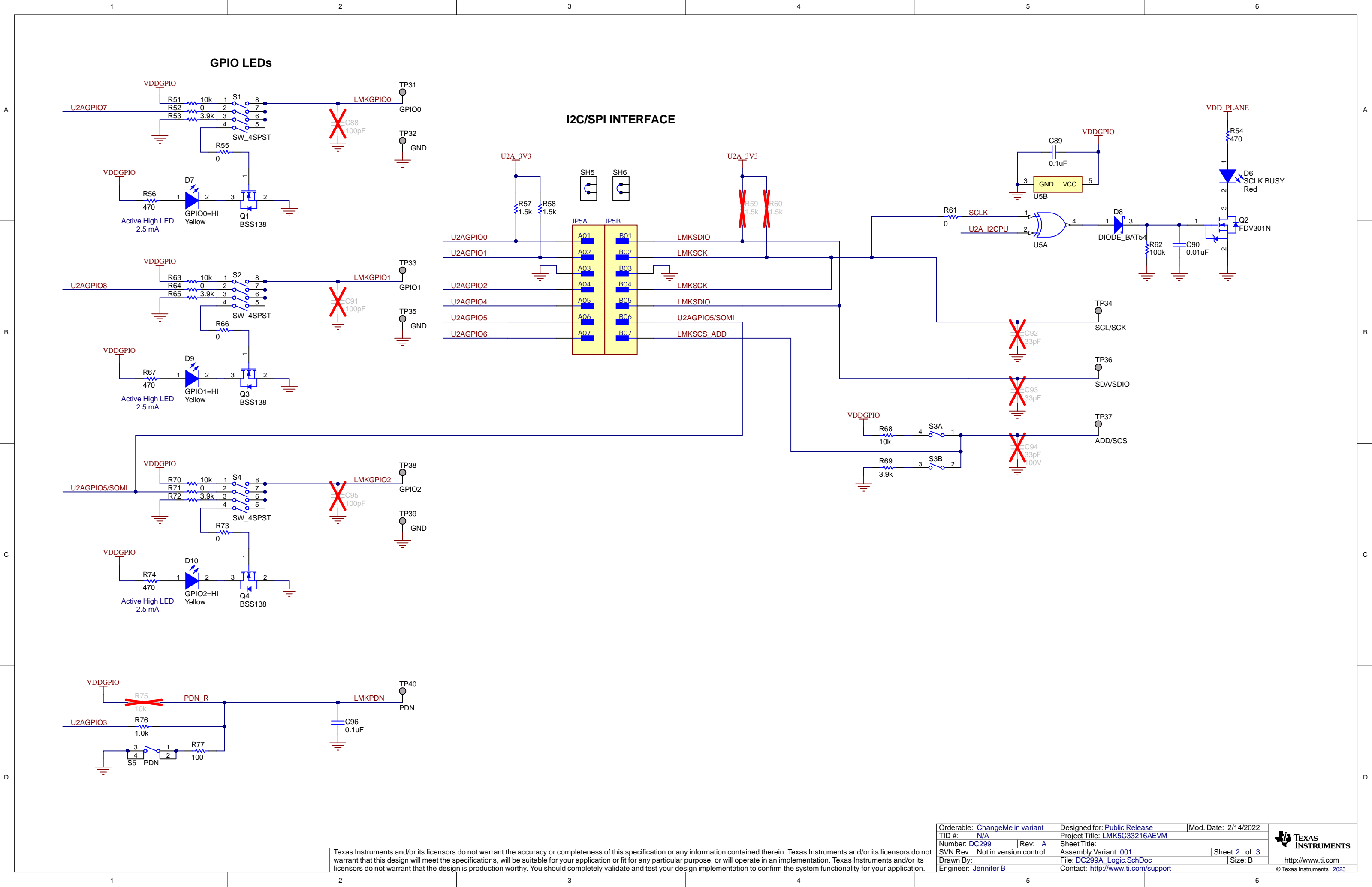


## 4

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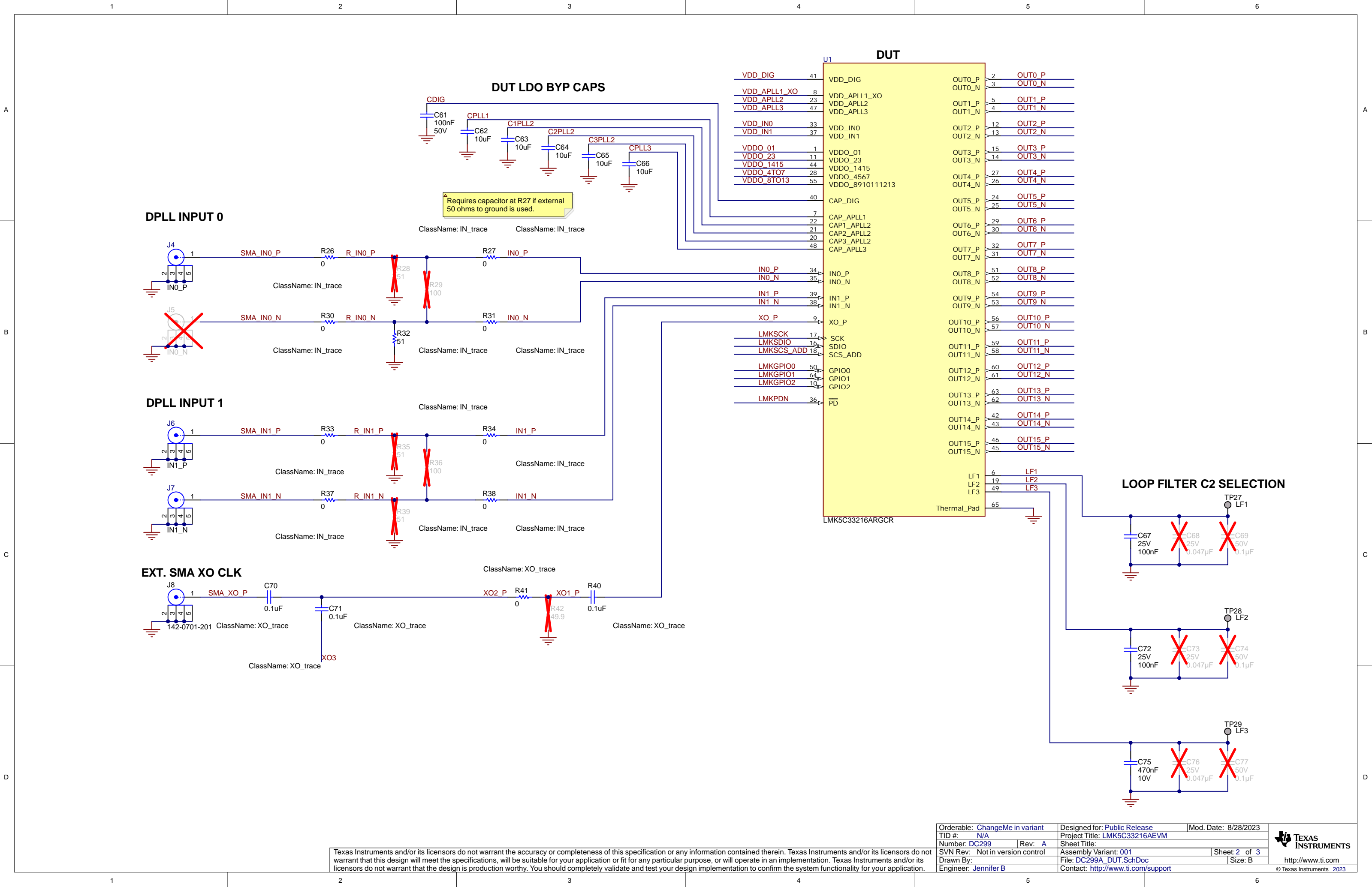






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Number: <a href="#">DC299</a>	Rev: <a href="#">A</a>	Sheet Title:
SVN Rev: <a href="#">Not in version control</a>	Assembly Variant: <a href="#">001</a>	Sheet: <a href="#">2</a> of <a href="#">3</a>
Drawn By:	File: <a href="#">DC299A_Logic.SchDoc</a>	Size: <a href="#">B</a>
Engineer: <a href="#">Jennifer B</a>	Contact: <a href="#">http://www.ti.com/support</a>	



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Number: <a href="#">DC299</a>	Rev: <a href="#">A</a>	Sheet Title:
SVN Rev: <a href="#">Not in version control</a>	Assembly Variant: <a href="#">001</a>	Sheet: <a href="#">2</a> of <a href="#">3</a>
Drawn By:	File: <a href="#">DC299A_DUT.SchDoc</a>	Size: <a href="#">B</a>
Engineer: <a href="#">Jennifer B</a>	Contact: <a href="#">http://www.ti.com/support</a>	

STANDOFF HARDWARE



PCB Number: DC299  
PCB Rev: A  
Printed Circuit Board

PCB  
LOGO  
Texas Instruments

PCB  
LOGO  
WEEE logo

PCB  
LOGO  
FCC disclaimer



LBL1

PCB Label

THT-14-423-10  
Size: 0.65" x 0.20 "

ZZ1

Label Assembly Note

This Assembly Note is for PCB labels only

Variant/Label Table	
Variant	Label Text
001	LMK5C33216AEVM

DC/DC plus alternate LDOs

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.

ZZ5

Assembly Note

Default Shunt (SH) settings for JP\* headers: Connect Shunts (SH) on JP1(1-2=DC/DC to VDD), JP2(1-2=DC/DC to VDDO), JP4(1-2=DC/DC to XO), JP5(1-2=SDA, 3-4=SCL).

ZZ6

Assembly Note

Place serial number sticker on top side of PCB.

ZZ7

Assembly Note

This Assembly SMA connectors must be installed per manufacturers procedure.

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TID #: <a href="#">N/A</a>		Project Title: <a href="#">LMK5C33216AEVM</a>	
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Drawn By:	File: <a href="#">DC299A_Hardware.SchDoc</a>		Size: B
Engineer: <a href="#">Jennifer B</a>	Contact: <a href="#">http://www.ti.com/support</a>		