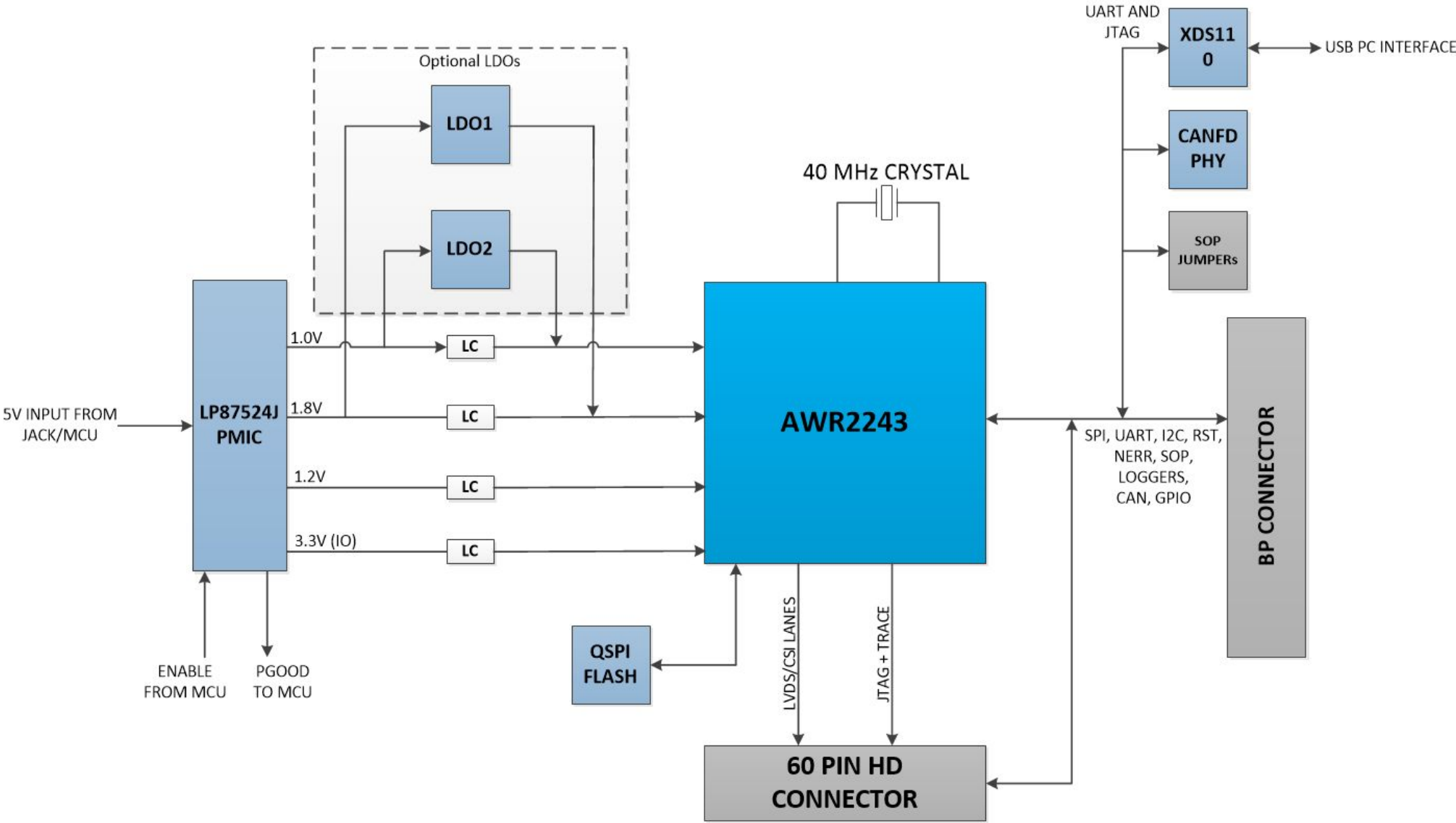


BLOCK DIAGRAM

Revision History					
Rev	ECN #	Approved Date	Approved by	Notes	
B	1	5/28/2020	Adrian Ozer	Updated C56 from 0.22uF to 47nF	

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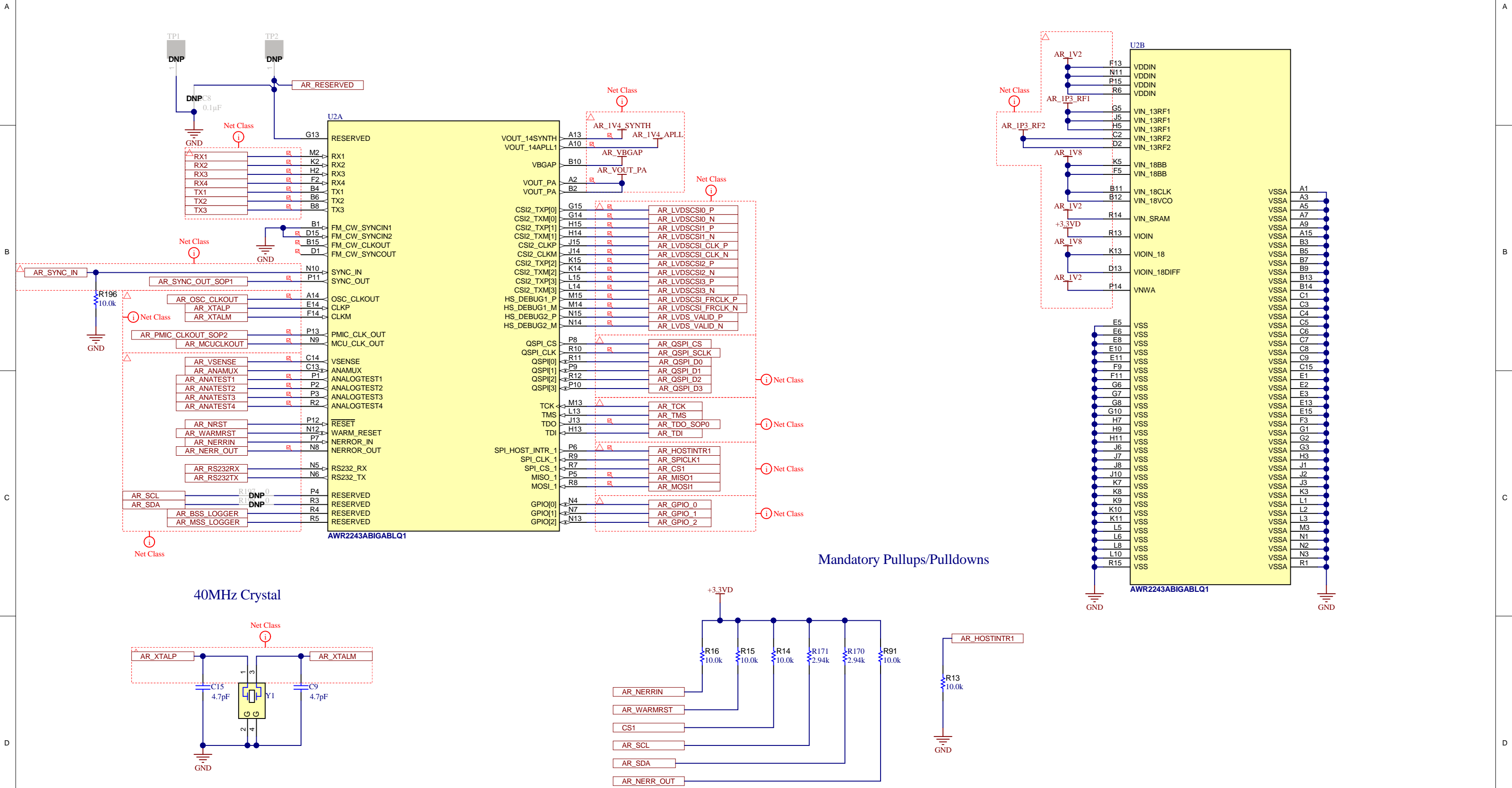
SHEET NO.	SHEET NAME
1	PROC099B_CoverSheet
2	PROC099B_DUT
3	PROC099B_DECOUPLING_CAPS
4	PROC099B_PMIC
5	PROC099B_LC_FILTERING
6	PROC099B_SOP_HEADERS
7	PROC099B_QSPI_Flash
8	PROC099B_Pwr_RST_LEDs
9	PROC099B_LDO
10	PROC099B_HD_Connector
11	PROC099B_LP_Connector
12	PROC099B_XDS110_Interface_1A
13	PROC099B_XDS110_Interface_1B
14	PROC099B_CAN_Interface
15	PROC099B_Tempsensor
16	PROC099B_Hardware



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Orderable: AWR2243BOOST	Designed for: Public Release	Mod. Date: 5/28/2020
TID #: N/A	Project Title: PROC099	
Number: PROC099	Rev: B	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 1 of 16
Drawn By: Adrian Ozer	File: PROC099B_CoverSheet.SchDoc	Size: B
Engineer: Adrian Ozer	Contact: http://www.ti.com/support	

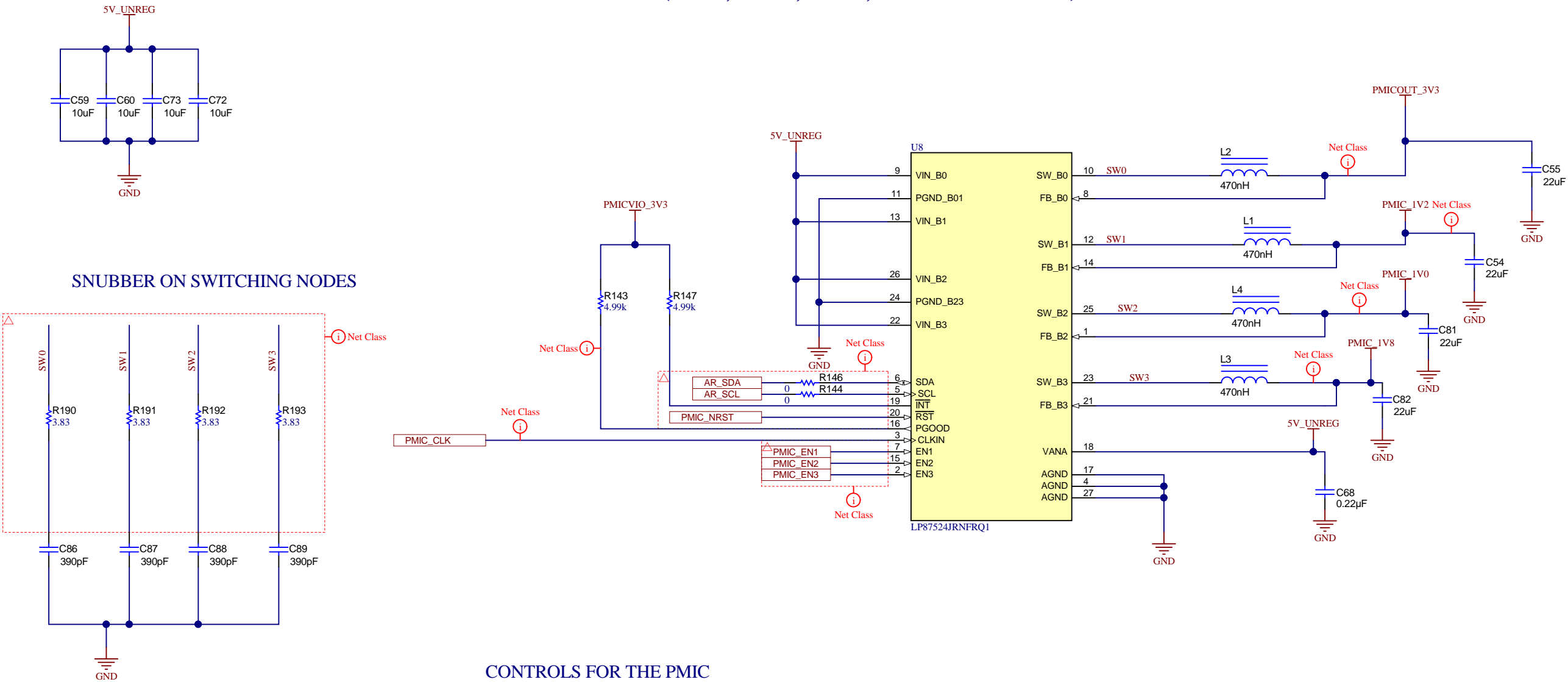
DUT REFERENCE



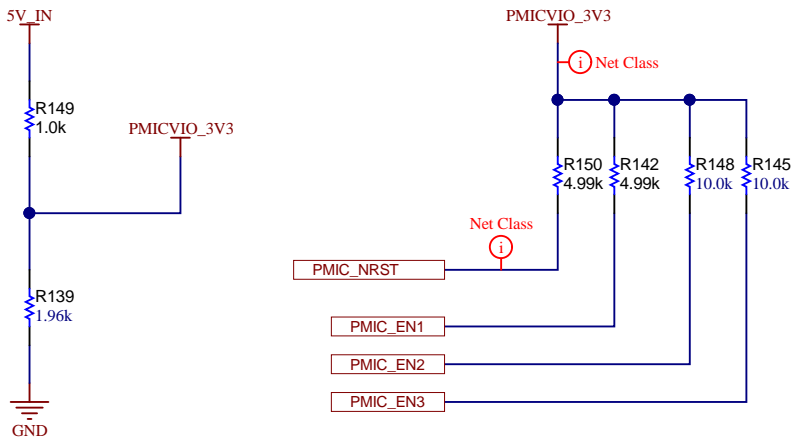
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TID #: N/A	Project Title: PROC099	
Number: PROC099	Rev: B	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 2 of 16
Drawn By: Adrian Ozer	File: PROC099B_DUT_Reference.SchDoc	Size: B
Engineer: Adrian Ozer	Contact: http://www.ti.com/support	

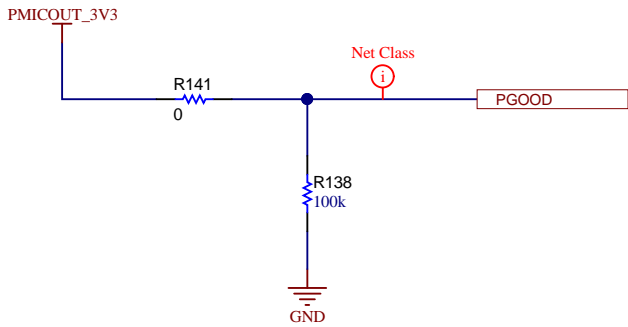
PMIC (3.3V, 1.2V, 1.8V,2.3V OUTPUTS) REFERENCE



CONTROLS FOR THE PMIC



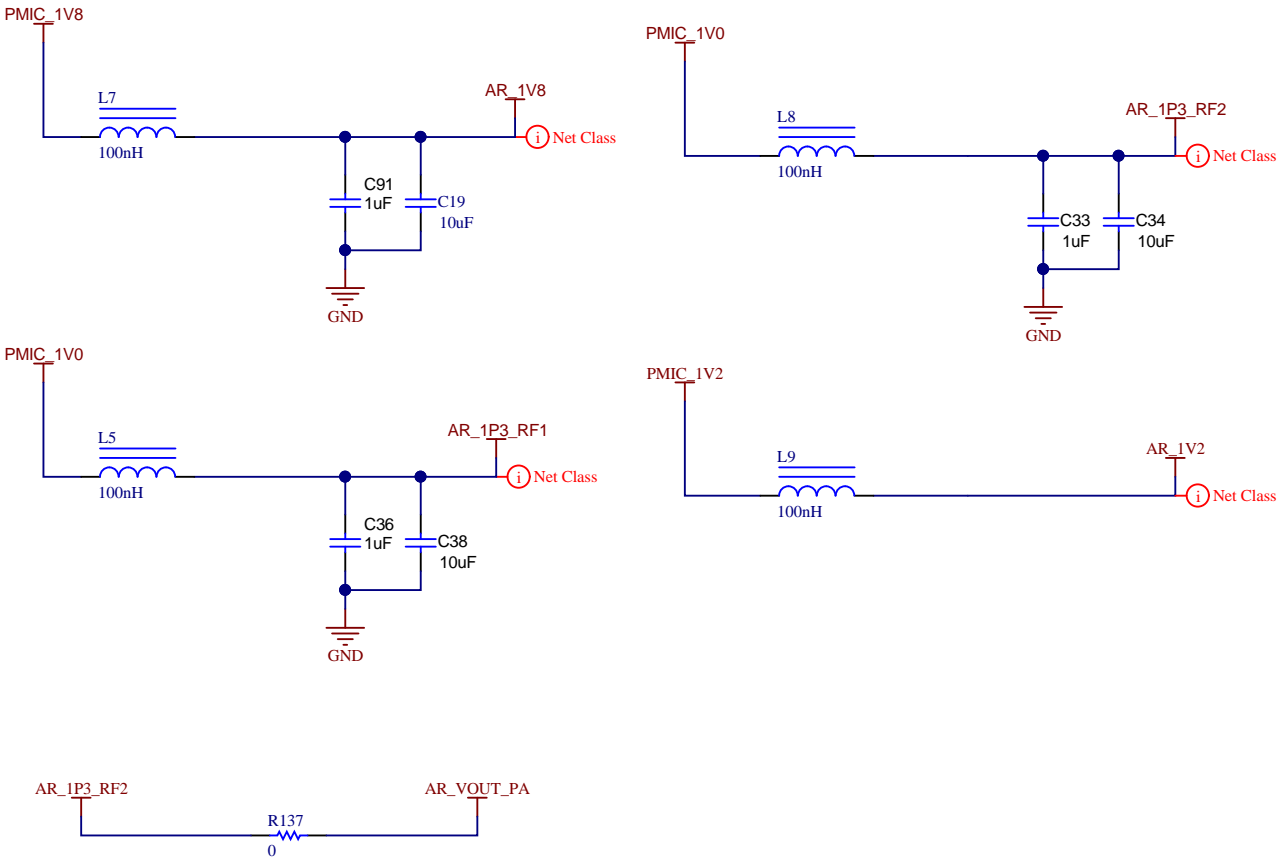
THE 3V3 OUTPUT FROM PMIC IS USED AS PGOOD.



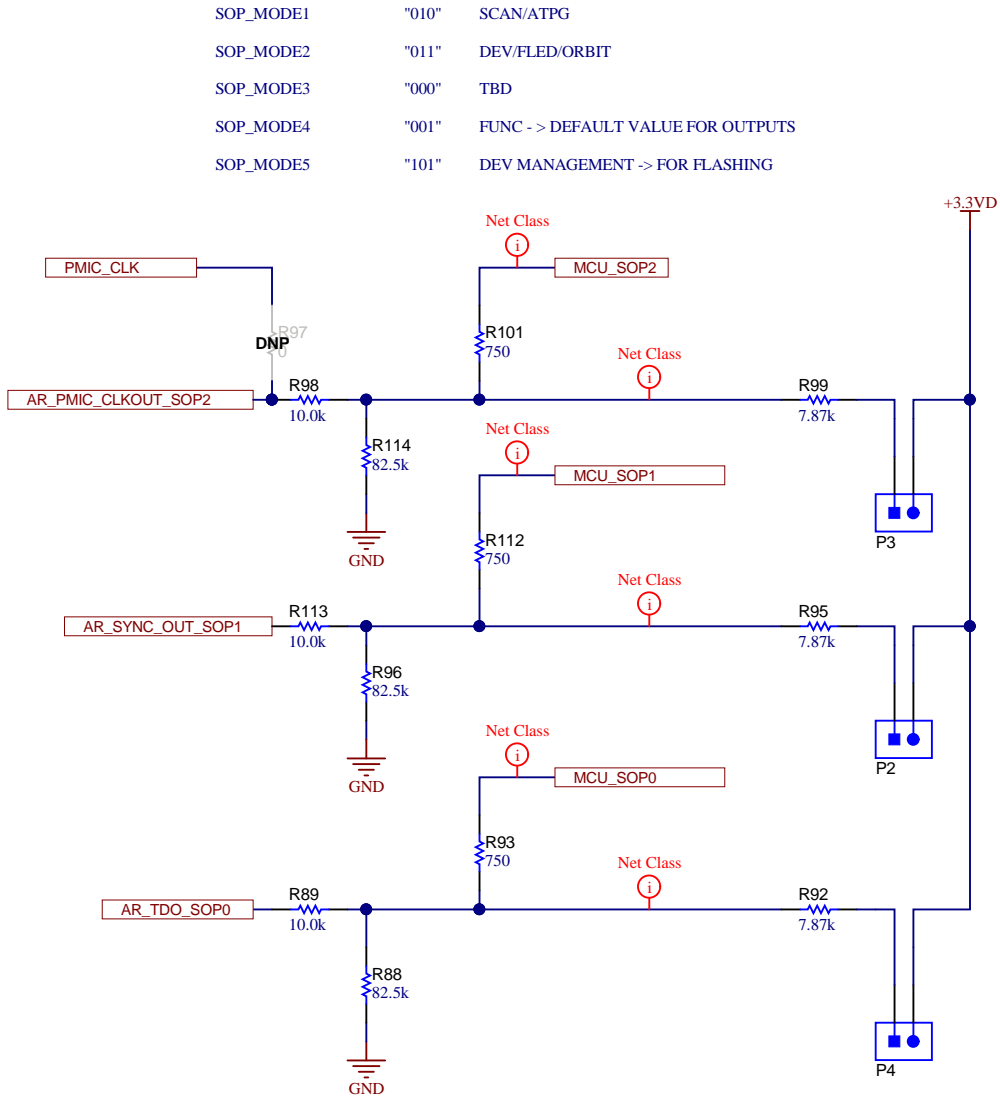
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TID #: N/A	Project Title: PROC099	
Number: PROC099	Rev: B	Sheet Title: PMIC
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 4 of 16
Drawn By: Adrian Ozer	File: PROC099B_PMIC_Reference.SchDoc	Size: B
Engineer: Adrian Ozer	Contact: http://www.ti.com/support	

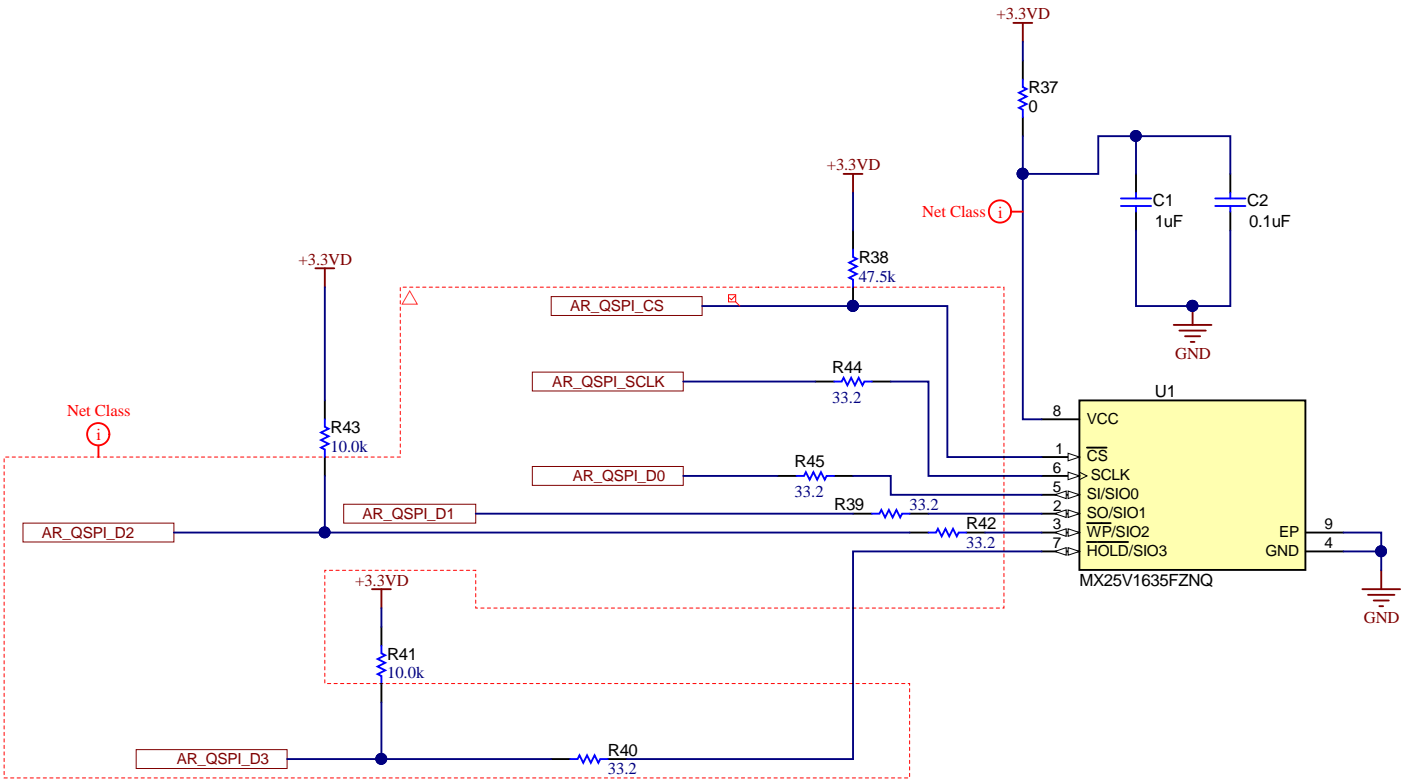
LC FILTERING REFERENCE



SOP HEADERS REFERENCE



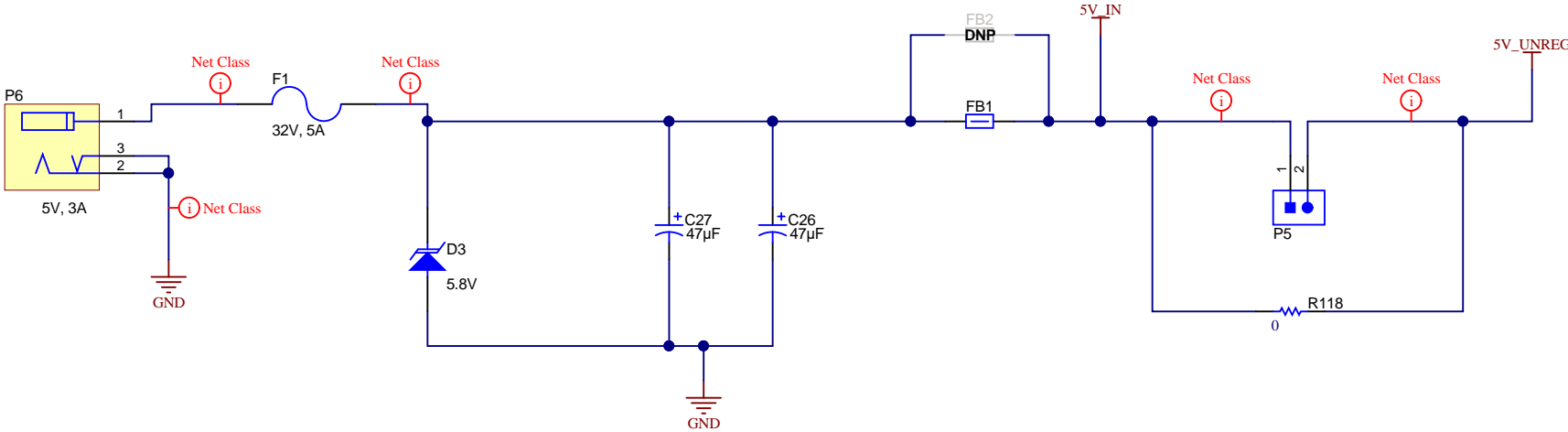
QSPI FLASH REFERENCE



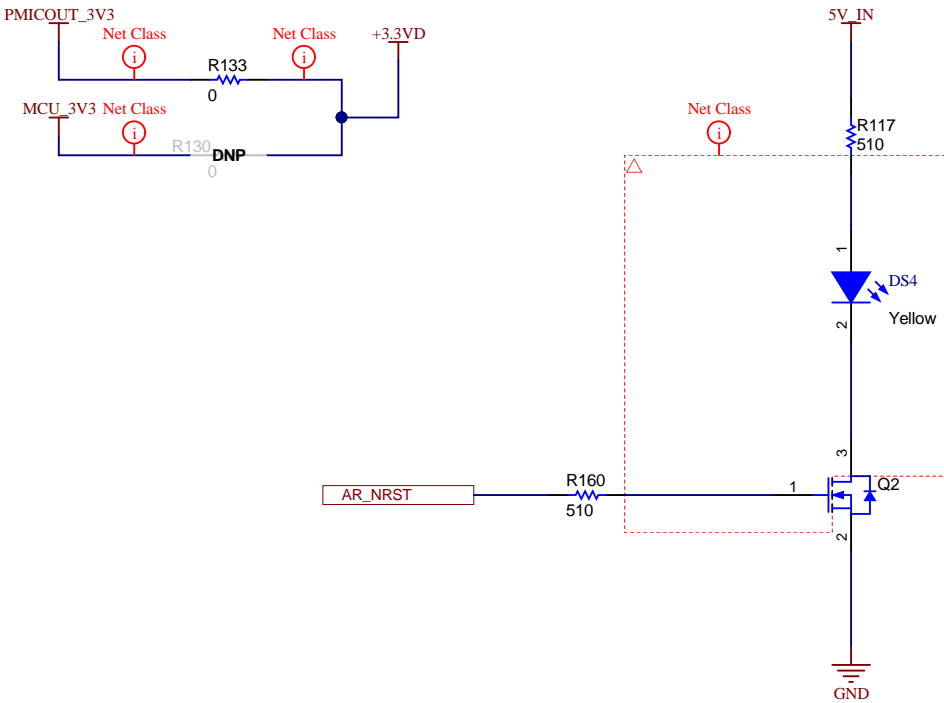
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Orderable: AWR2243BOOST	Designed for: Public Release	Mod. Date: 5/28/2020
TID #: N/A	Project Title: PROC099	
Number: PROC099	Rev: B	Sheet Title: QSPI flash section
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 7 of 16
Drawn By: Adrian Ozer	File: PROC099B_QSPI_Flash_Reference.SchDoc	Size: B
Engineer: Adrian Ozer	Contact: http://www.ti.com/support	

POWER SUPPLY CONNECTOR

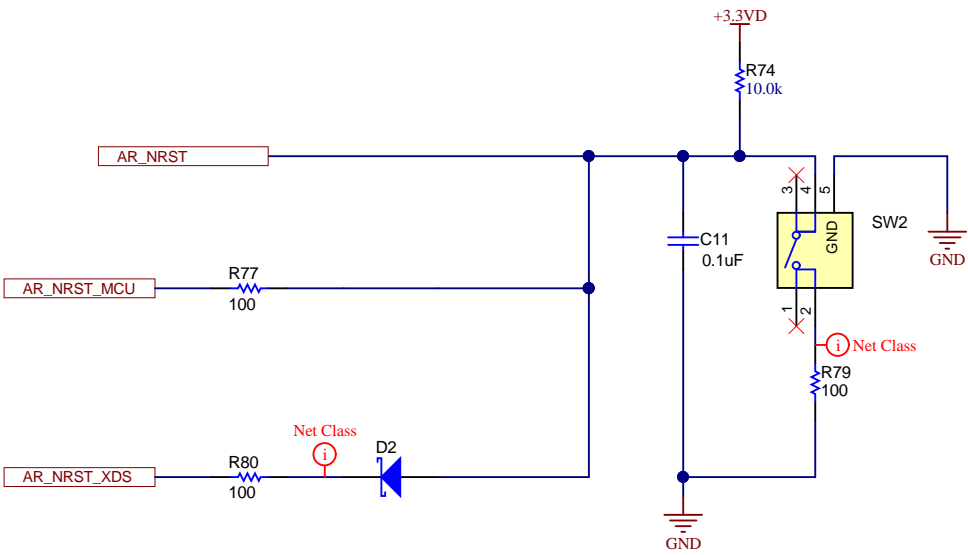


3P3 SUPPLY FROM PMIC OR FROM THE MCU

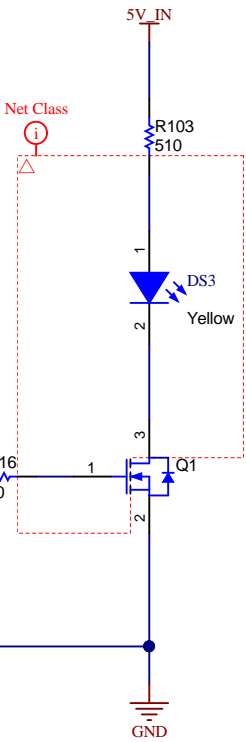
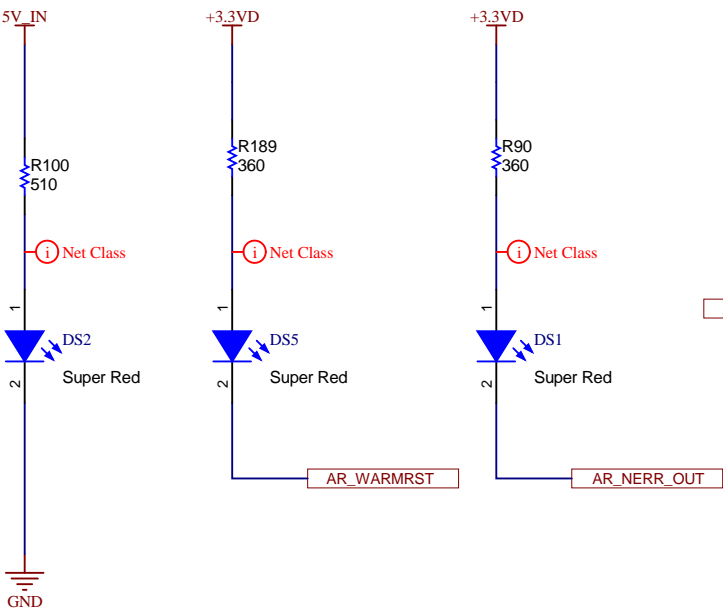


RESET AND LEDS

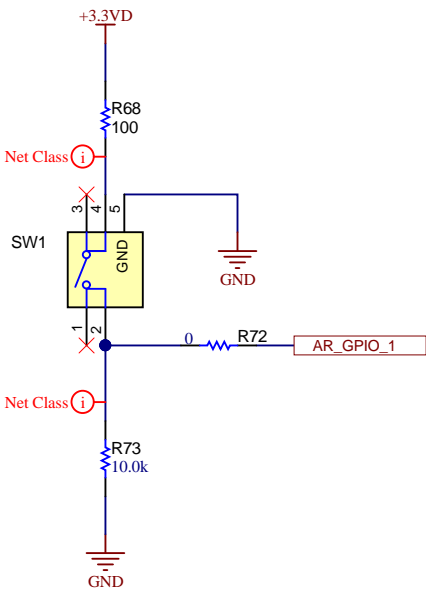
RESET



INDICATION LEDS



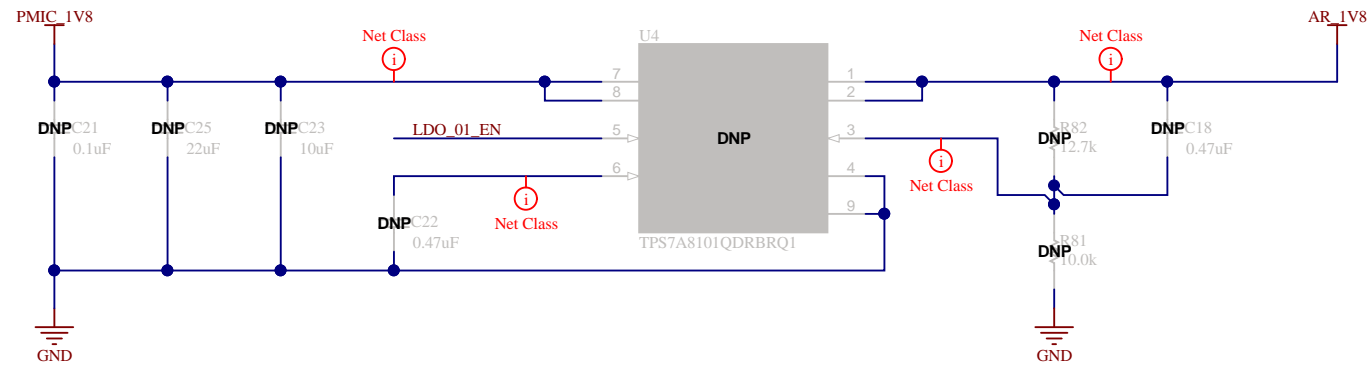
TRIGGER GPIO



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LDO

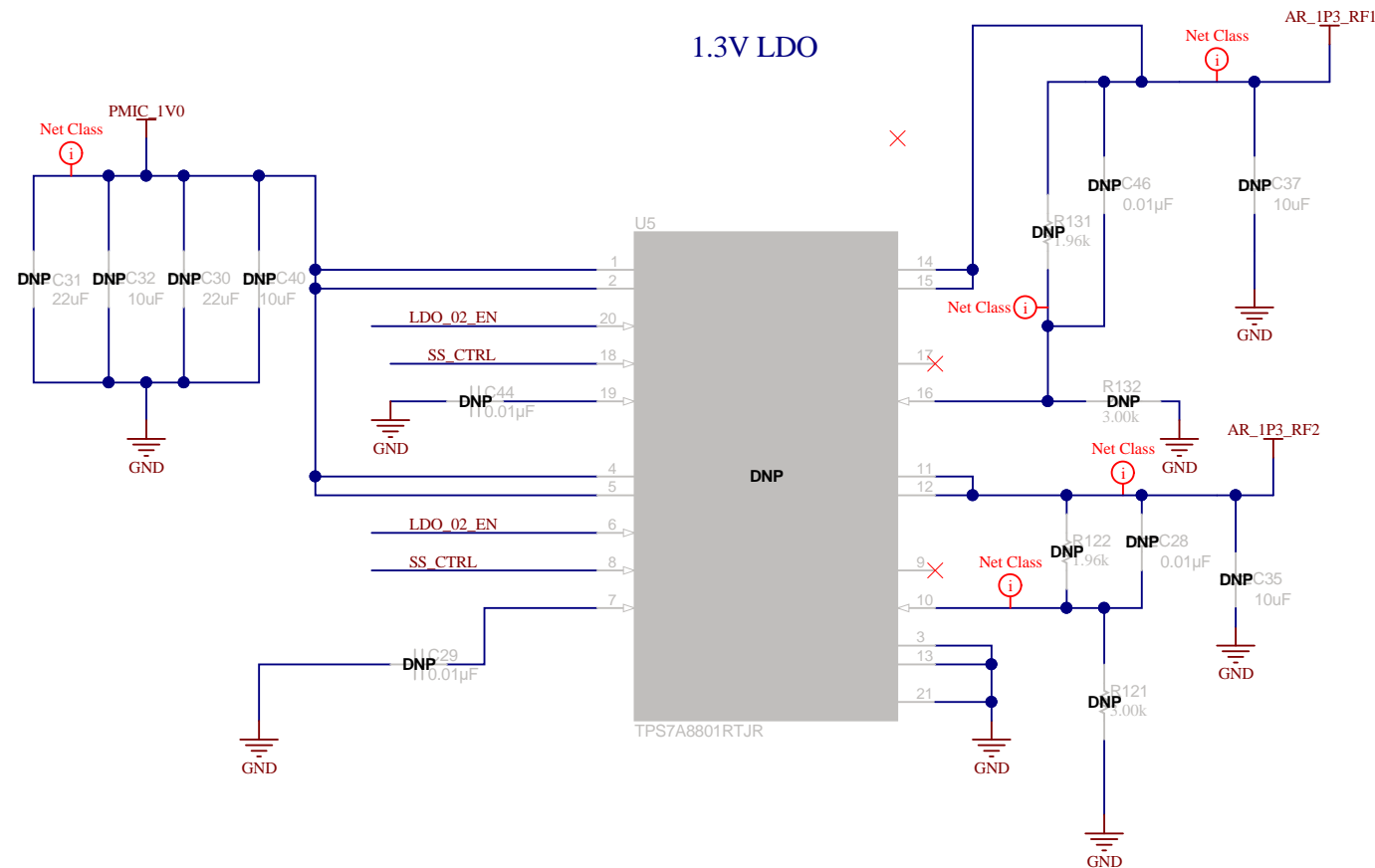
1.8V LDO



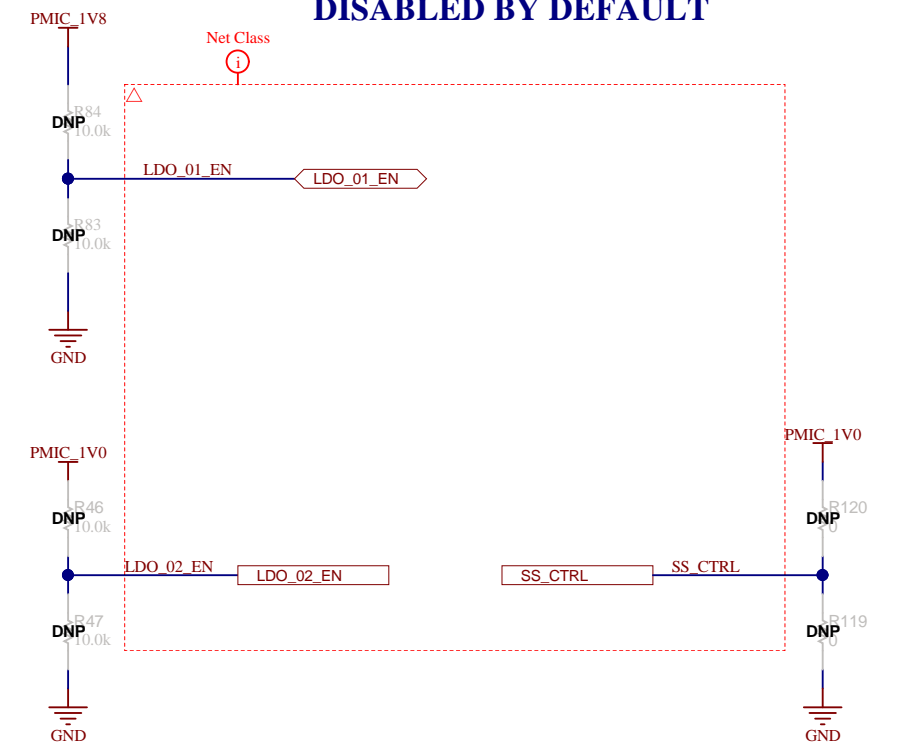
LDOs ARE FOR DEBUG PURPOSES ONLY

DURING LDO OPERATION PMIC_1V8 IS 2.3V AND PMIC_1V0 IS 1.8V


1.3V LDO



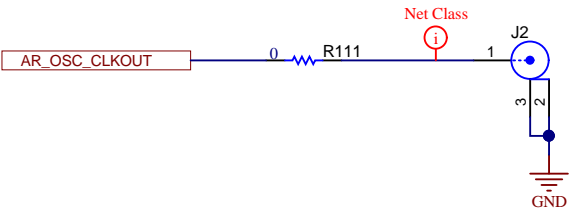
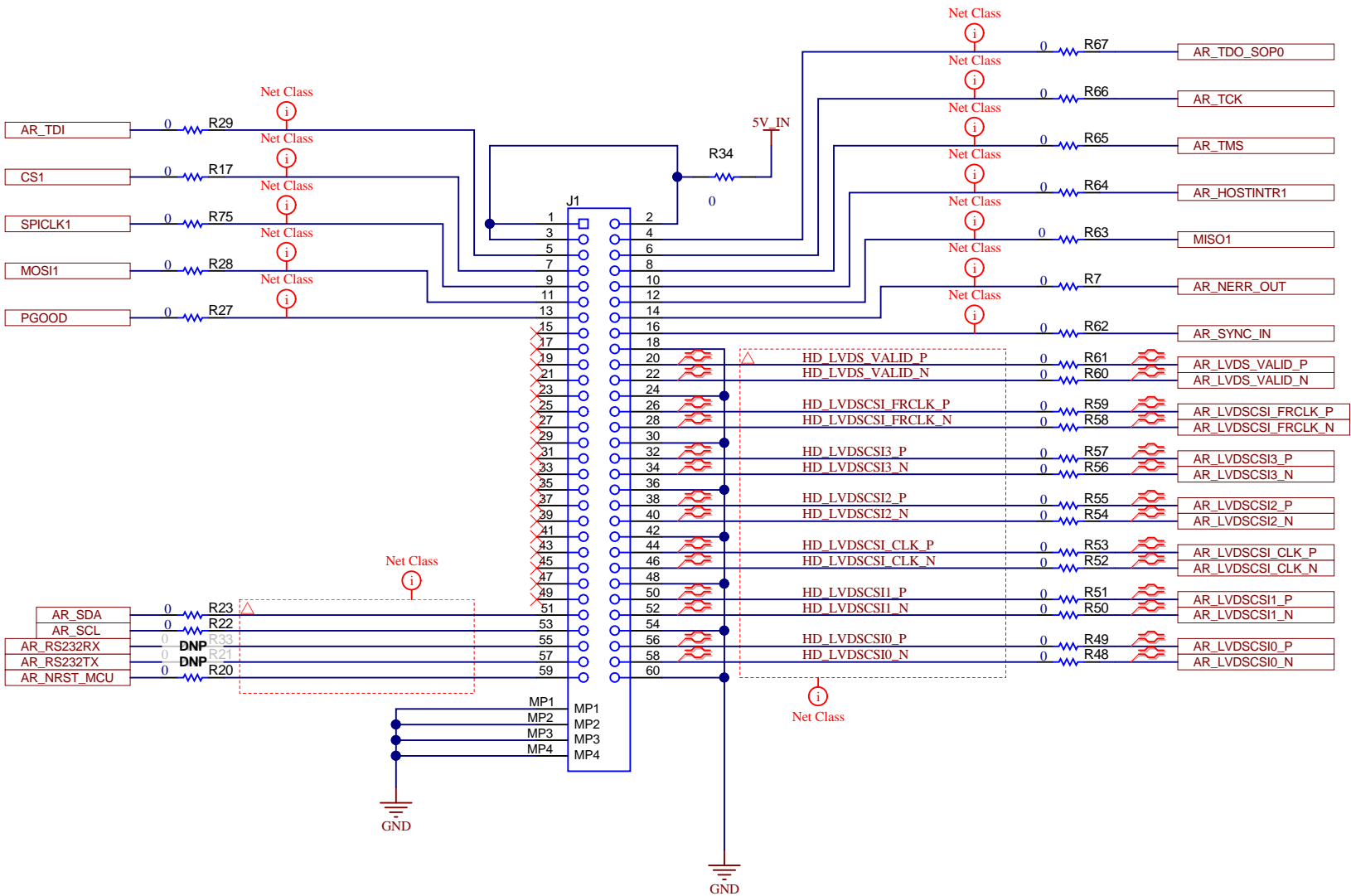
DISABLED BY DEFAULT



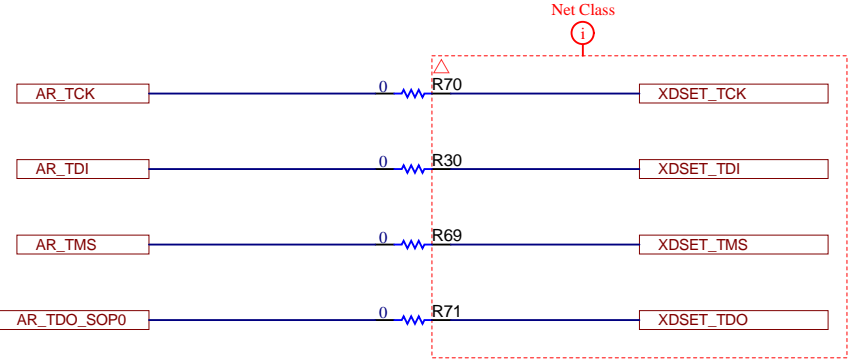
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TID #: N/A	Project Title: PROC099		
Number: PROC099	Rev: B	Sheet Title:	
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 9 of 16	
Drawn By: Adrian Ozer	File: PROC099B_LDO_SchDoc	Size: B	
Engineer: Adrian Ozer	Contact: http://www.ti.com/support		

HD CONNECTOR FOR LVDS/CSI AND JTAG



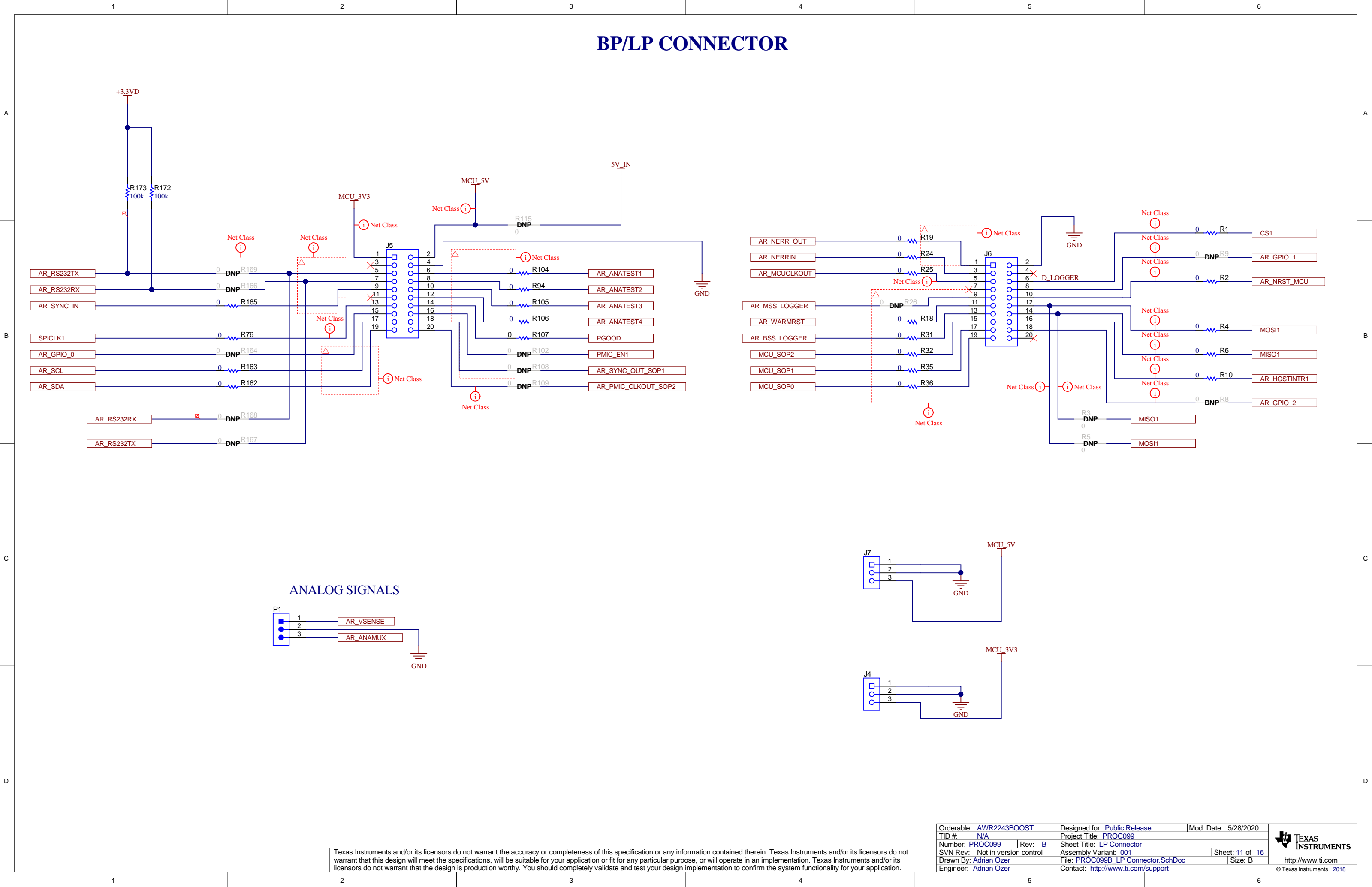
JTAG



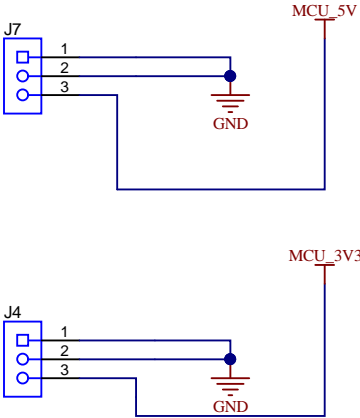
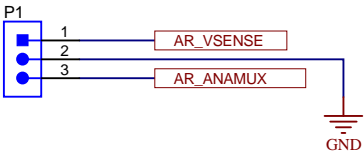
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TID #: N/A	Project Title: PROC099	
Number: PROC099	Rev: B	Sheet Title: HD Connector
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 10 of 16
Drawn By: Adrian Ozer	File: PROC099B_HD Connector.SchDoc	Size: B
Engineer: Adrian Ozer	Contact: http://www.ti.com/support	

BP/LP CONNECTOR



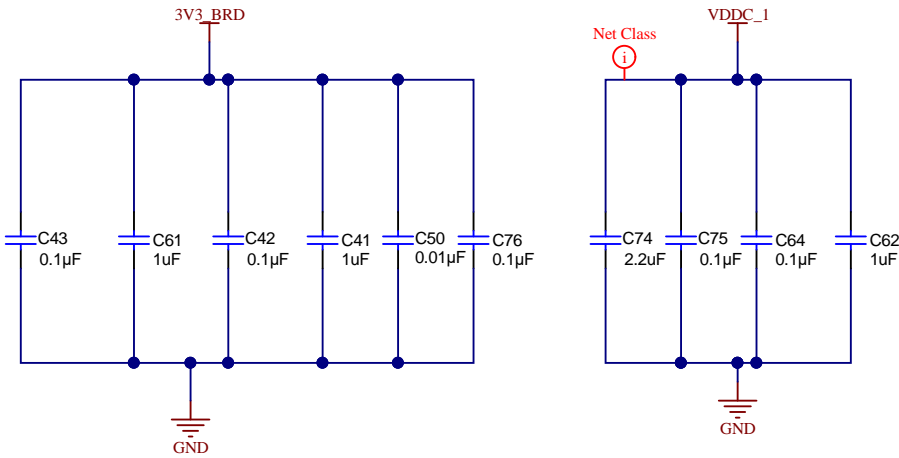
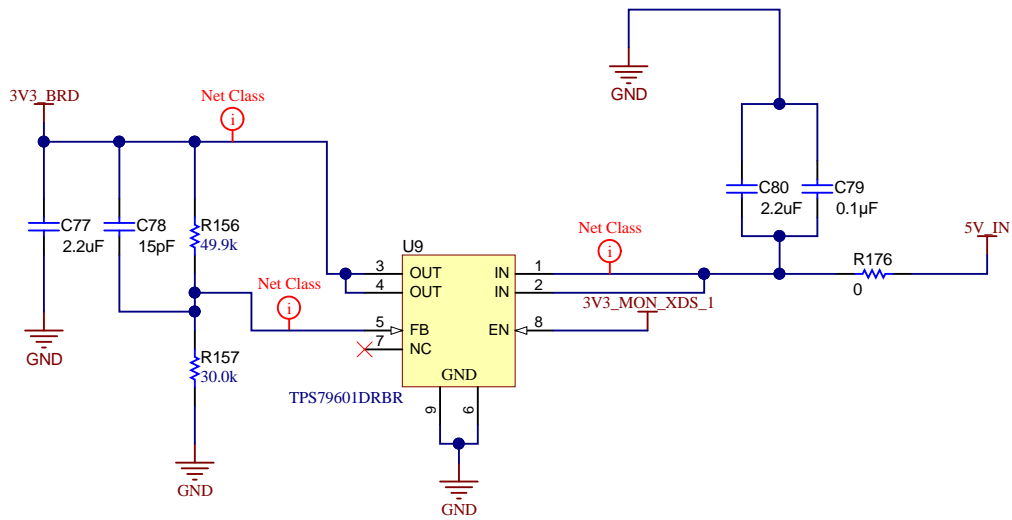
ANALOG SIGNALS



Orderable: AWR2243BOOST		Designed for: Public Release	Mod. Date: 5/28/2020
TID #: N/A		Project Title: PROC099	
Number: PROC099	Rev: B	Sheet Title: LP Connector	
SVN Rev: Not in version control		Assembly Variant: 001	Sheet: 11 of 16
Drawn By: Adrian Ozer		File: PROC099B_LP Connector.SchDoc	Size: B
Engineer: Adrian Ozer		Contact: http://www.ti.com/support	

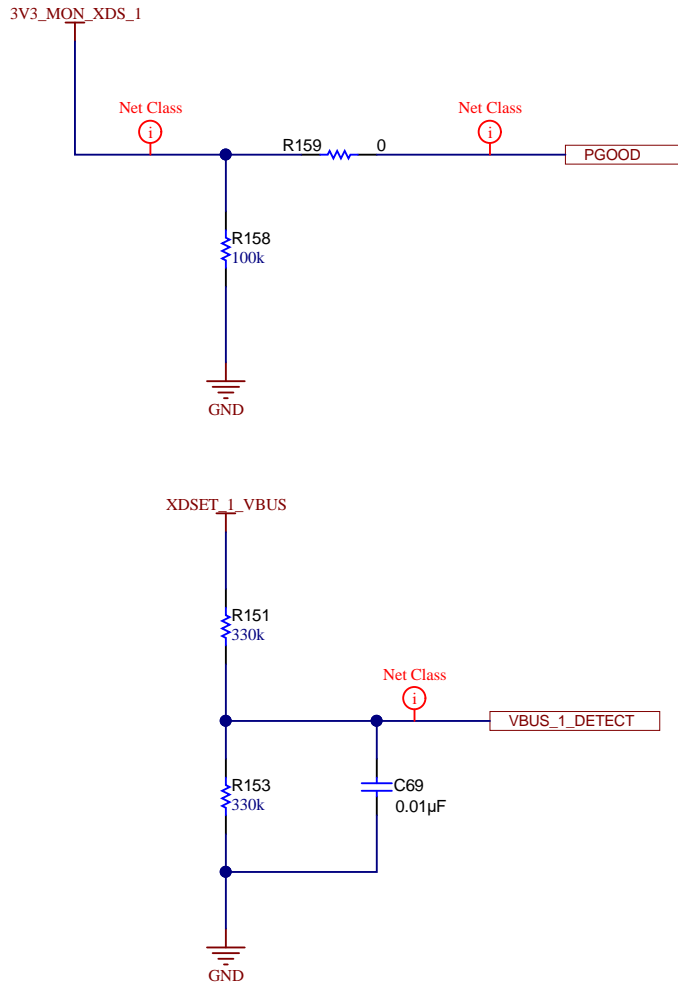
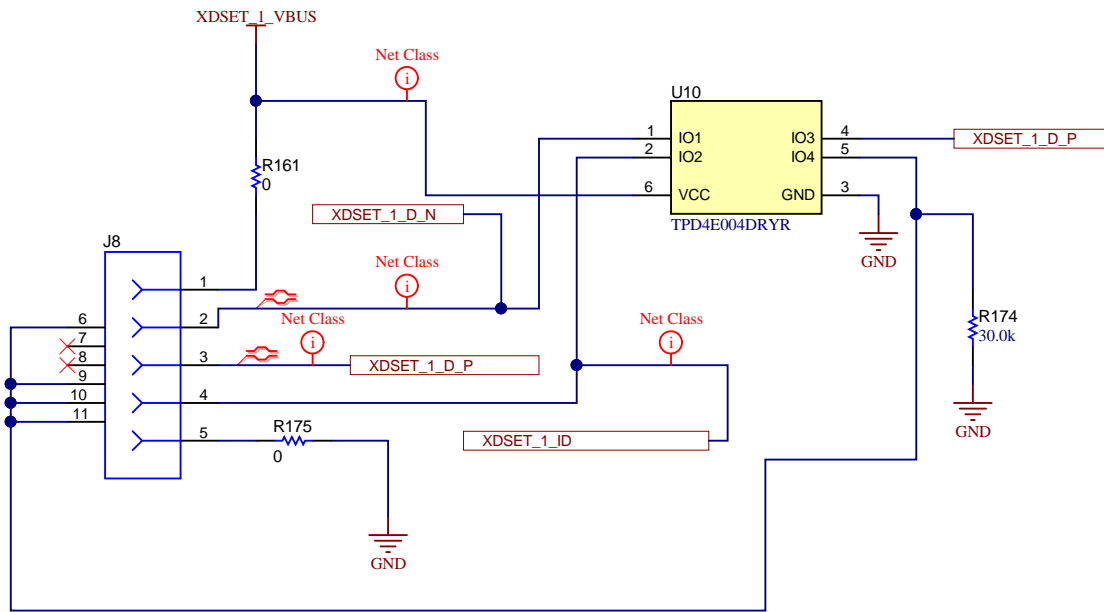
XDS110(1/2)

3.3V LDO FOR PERIPHERALS



BY DEFAULT THE XDS SUPPLY IS DISABLED..
GETS ENABLED ONLY ONCE THE PMIC IS POWERED UP.

USB PORT AND ESD



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TID #: N/A	Project Title: PROC099	
Number: PROC099	Rev: B	Sheet Title: XDS110 Interface_1A
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 12 of 16
Drawn By: Adrian Ozer	File: PROC099B_XDS110 Interface_1A.SchDoc	Size: B
Engineer: Adrian Ozer	Contact: http://www.ti.com/support	http://www.ti.com
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XDS110(2/2)

A

B

C

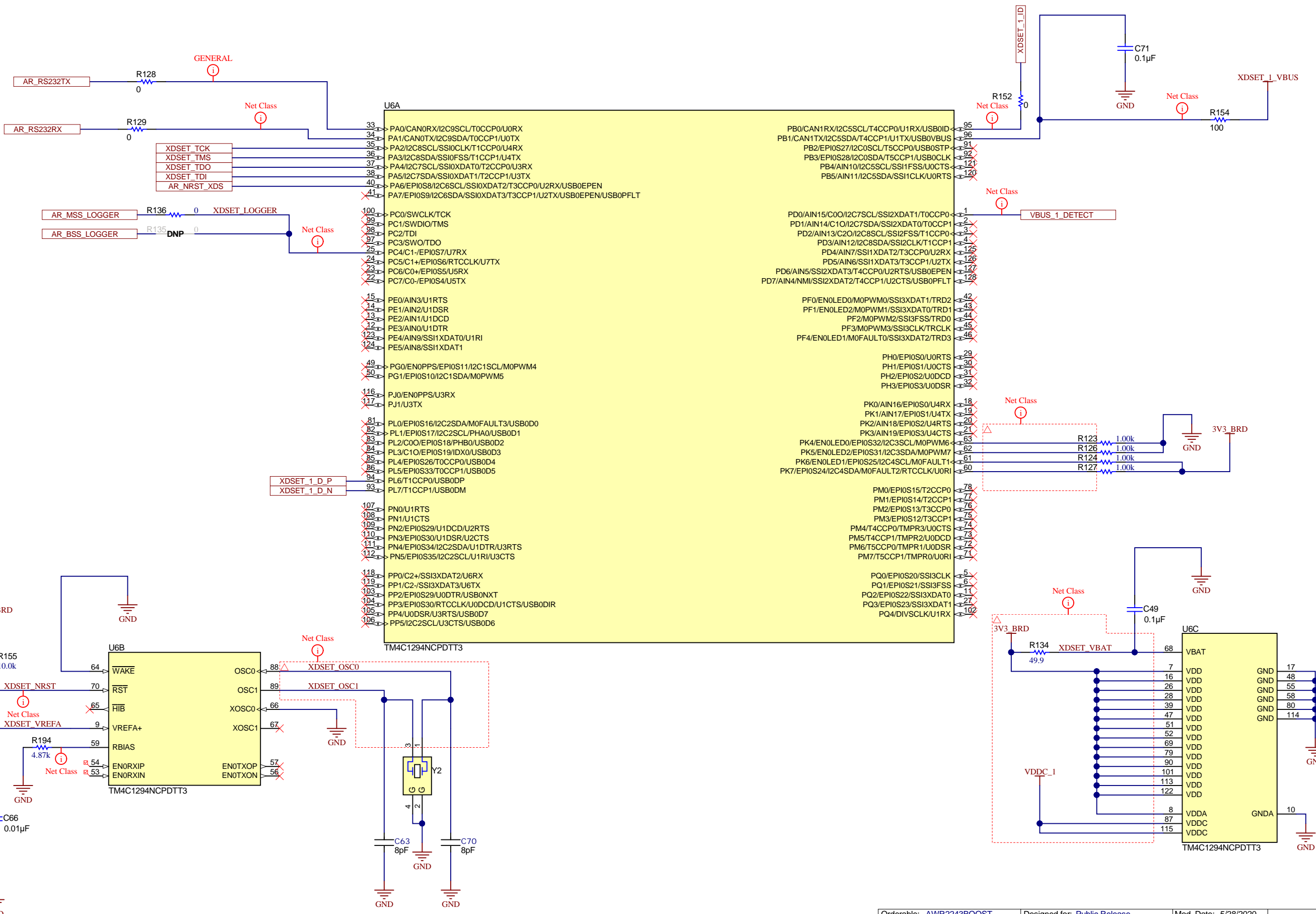
D

A

B

C

D

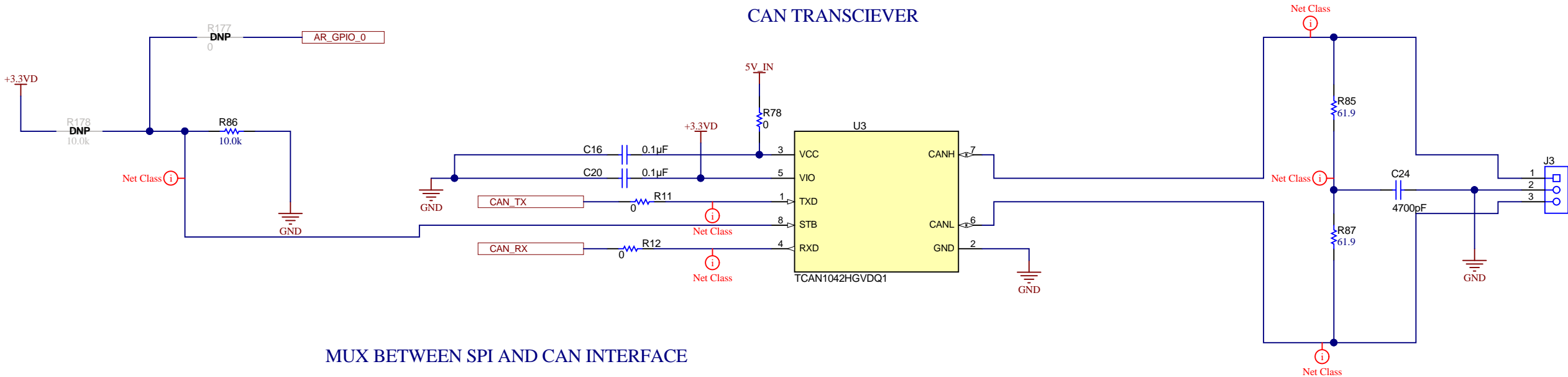


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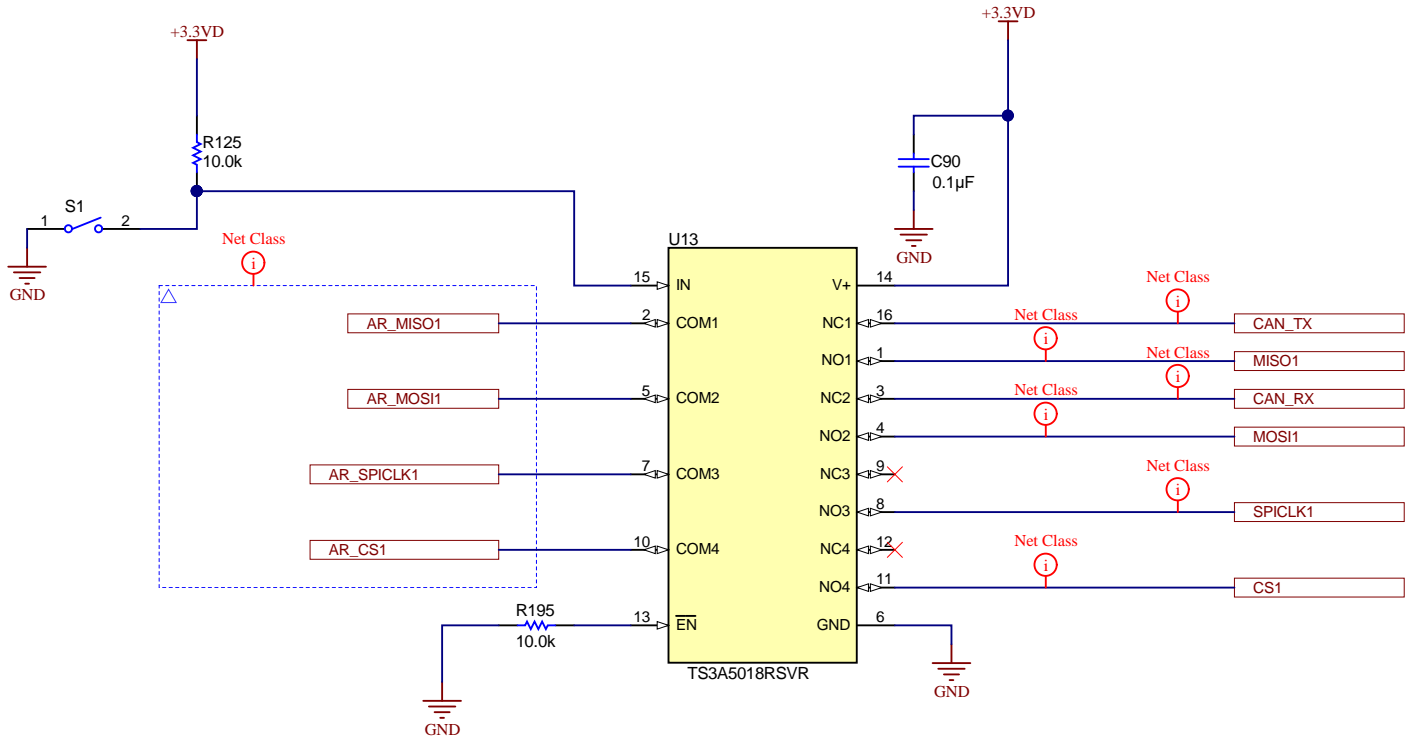
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TID #: N/A	Project Title: PROC099	
Number: PROC099	Rev: B	Sheet Title: XDS110 Interface_1B
S/N Rev: Not in version control	Assembly Variant: 001	Sheet: 13 of 16
Drawn By: Adrian Ozer	File: PROC099B_XDS110 Interface_1B.SchDoc	Size: B
Engineer: Adrian Ozer	Contact: http://www.ti.com/support	

CAN INTERFACE

CAN TRASCIEVER



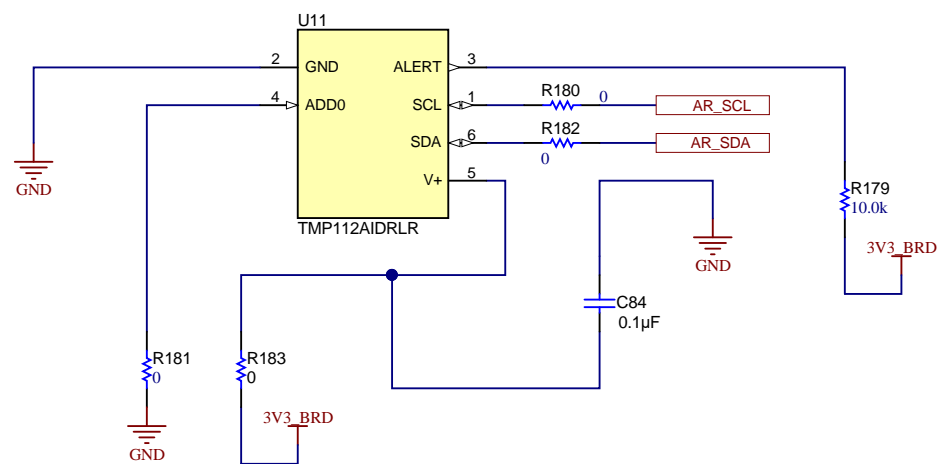
MUX BETWEEN SPI AND CAN INTERFACE



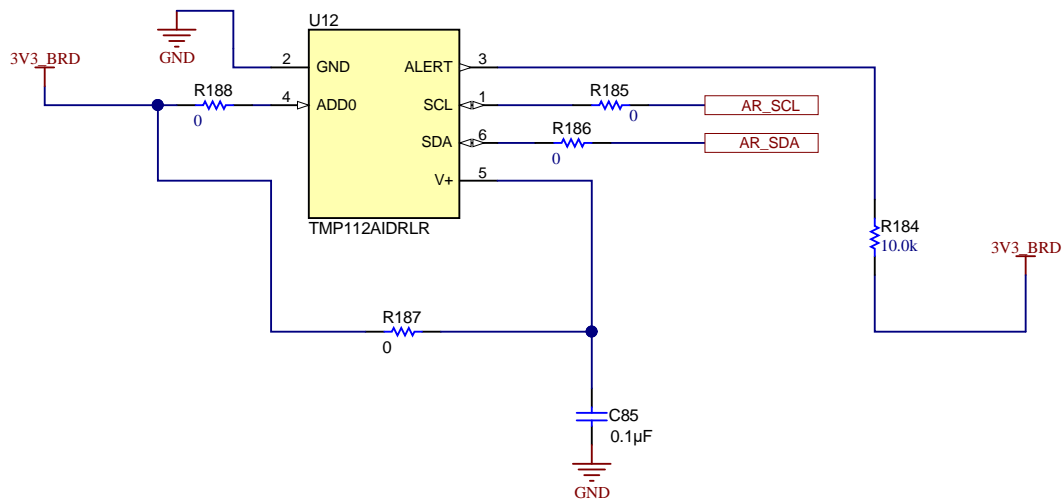
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Number: PROC099	Rev: B	Sheet Title: CAN Interface	
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 14 of 16	
Drawn By: Adrian Ozer	File: PROC099B_CAN Interface.SchDoc	Size: B	
Engineer: Adrian Ozer	Contact: http://www.ti.com/support		

ONBOARD TEMP SENSORS

DEFAULT I2C ADDRESS 0X48
TEMP SENSOR CLOSE TO PMIC



DEFAULT I2C ADDRESS 0X49
TEMP SENSOR AWAY FROM PMIC



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TID #: N/A	Project Title: PROC099	
Number: PROC099	Rev: B	Sheet Title: Tempsensor
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 15 of 16
Drawn By: Adrian Ozer	File: PROC099B_Tempsensor.SchDoc	Size: B
Engineer: Adrian Ozer	Contact: http://www.ti.com/support	

