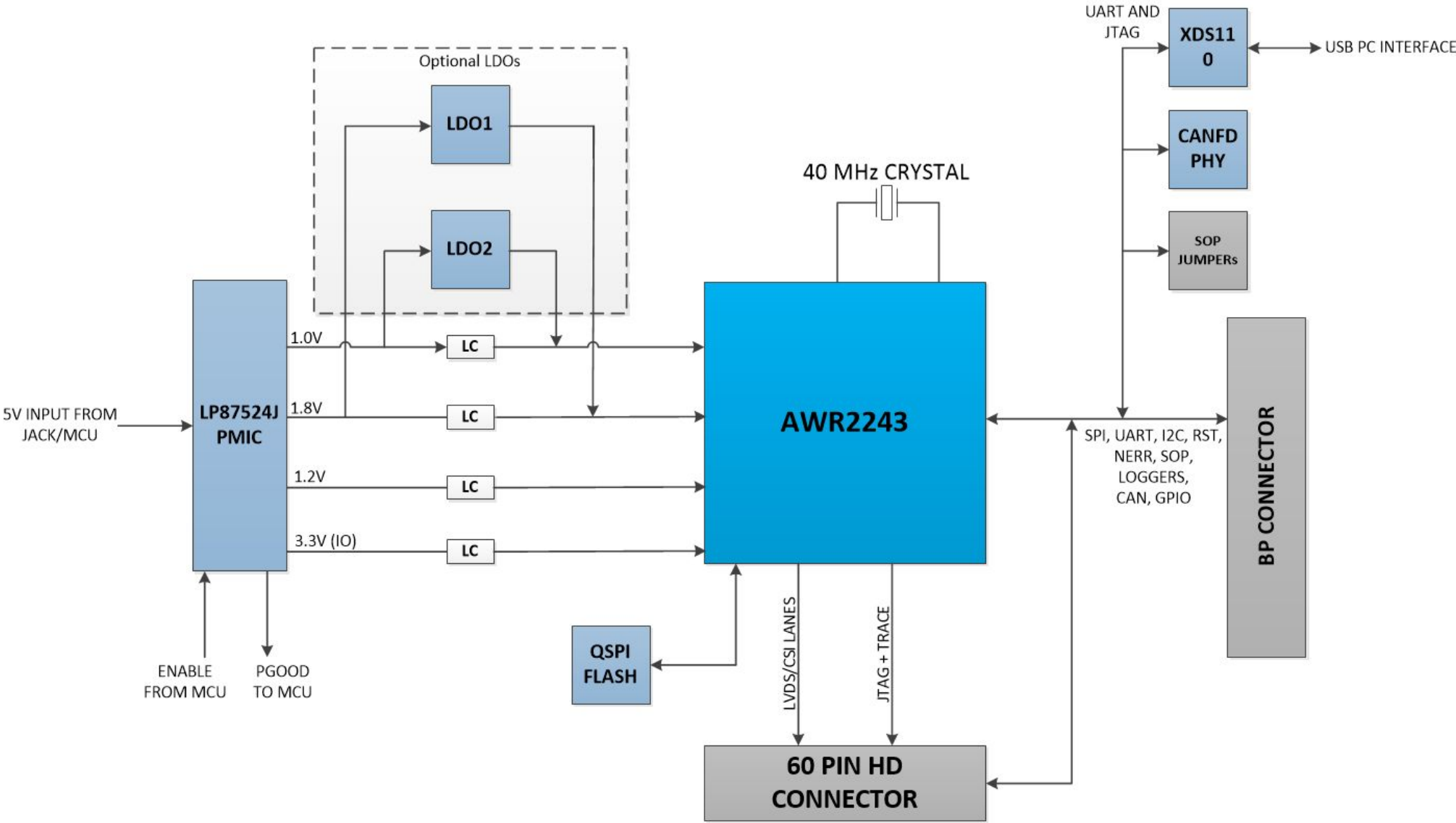


BLOCK DIAGRAM

Revision History				
Rev	ECN #	Approved Date	Approved by	Notes

TABLE OF CONTENTS

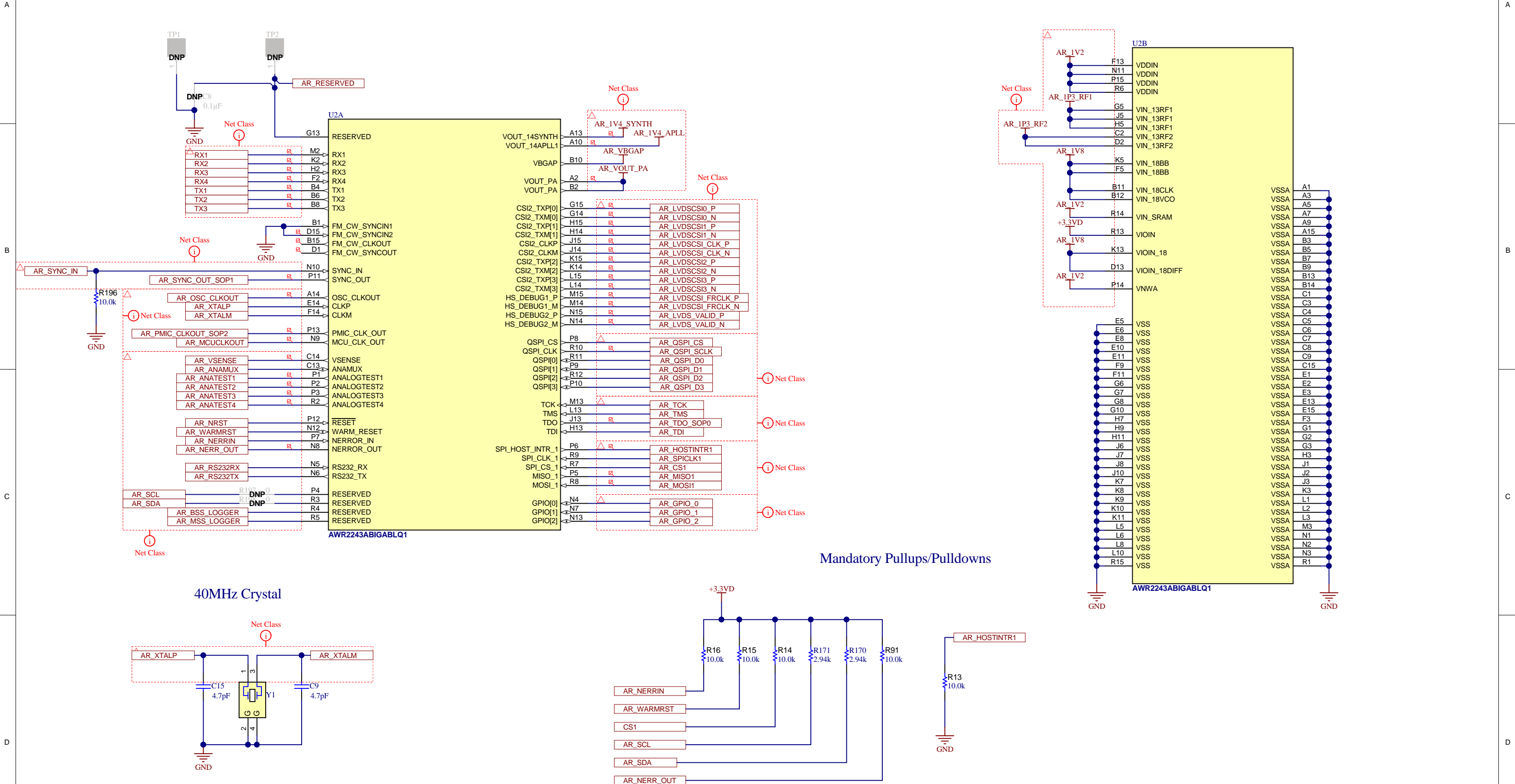
SHEET NO.	SHEET NAME
1	PROC099A_CoverSheet
2	PROC099A_DUT
3	PROC099A_DECOUPLING_CAPS
4	PROC099A_PMIC
5	PROC099A_LC_FILTERING
6	PROC099A_SOP_HEADERS
7	PROC099A_QSPI_Flash
8	PROC099A_Pwr_RST_LEDs
9	PROC099A_LDO
10	PROC099A_HD_Connector
11	PROC099A_LP_Connector
12	PROC099A_XDS110_Interface_1A
13	PROC099A_XDS110_Interface_1B
14	PROC099A_CAN_Interface
15	PROC099A_Tempsensor
16	PROC099A_Hardware



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Orderable: AWR2243BOOST	Designed for: Public Release	Mod. Date: 4/30/2020
TID #: N/A	Project Title: PROC099	
Number: PROC099	Rev: A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 1 of 16
Drawn By: Adrian Ozer	File: PROC099A_CoverSheet.SchDoc	Size: B
Engineer: Adrian Ozer	Contact: http://www.ti.com/support	

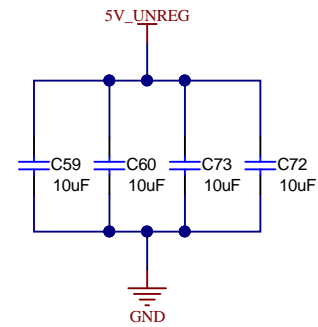
DUT REFERENCE



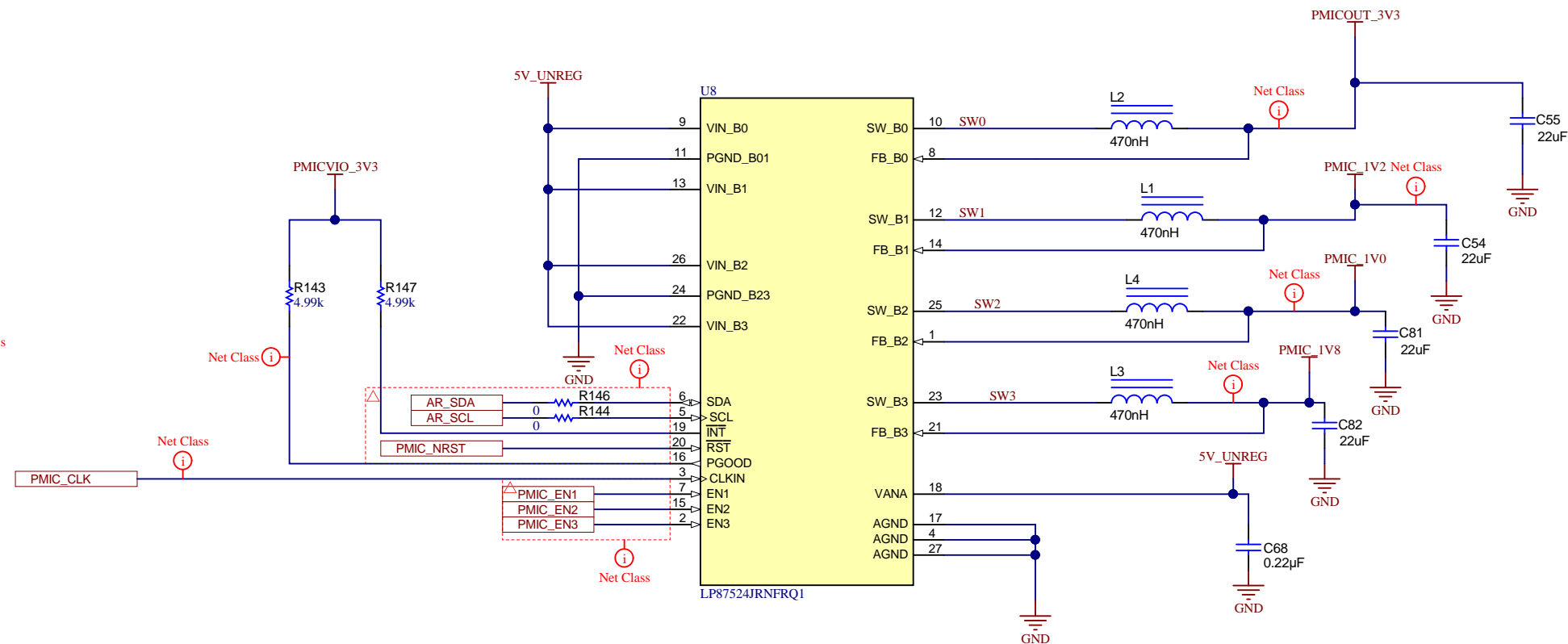
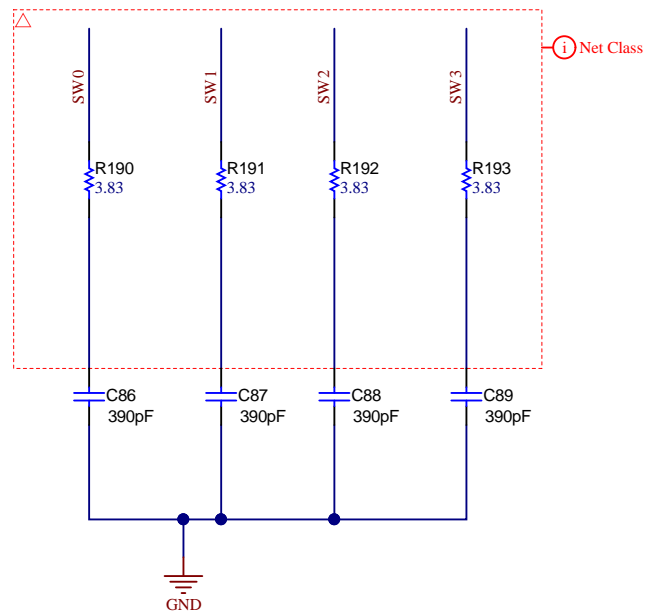
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Orderable: AWR2243BOOST	Designed for: Public Release	Mod. Date: 11/21/2019
TID #: N/A	Project Title: PROC099	
Number: PROC099	Rev: A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 2 of 16
Drawn By: Adrian Ozer	File: PROC099A_DUT_Reference.SchDoc	Size: B
Engineer: Adrian Ozer	Contact: http://www.ti.com/support	

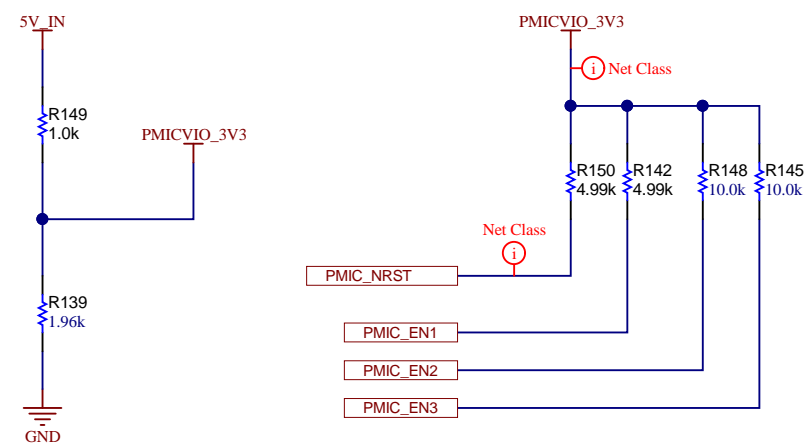
PMIC (3.3V, 1.2V, 1.8V,2.3V OUTPUTS) REFERENCE



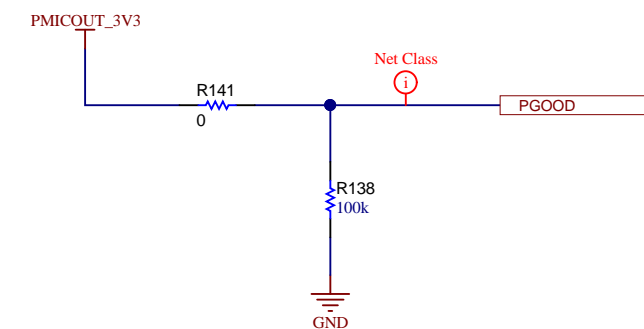
SNUBBER ON SWITCHING NODES



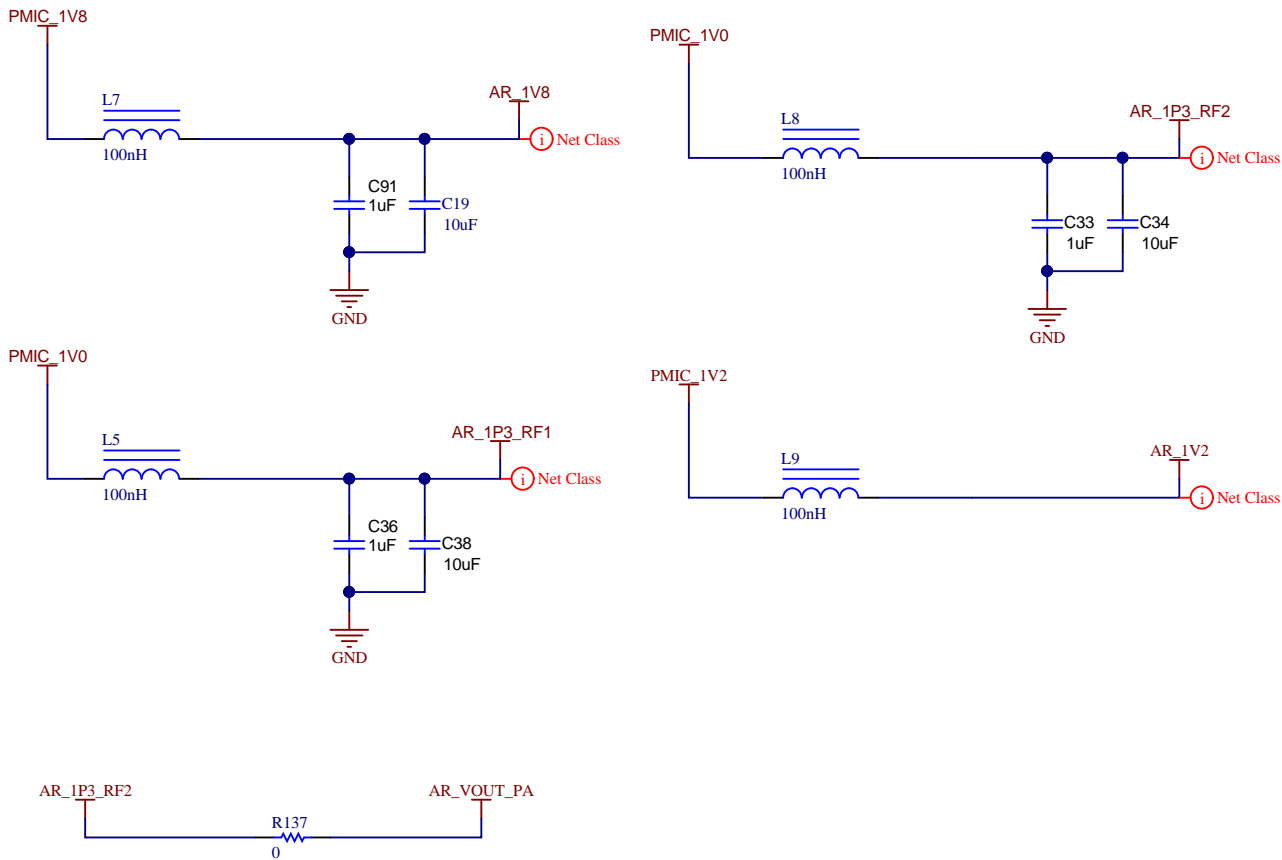
CONTROLS FOR THE PMIC



THE 3V3 OUTPUT FROM PMIC IS USED AS PGOOD.



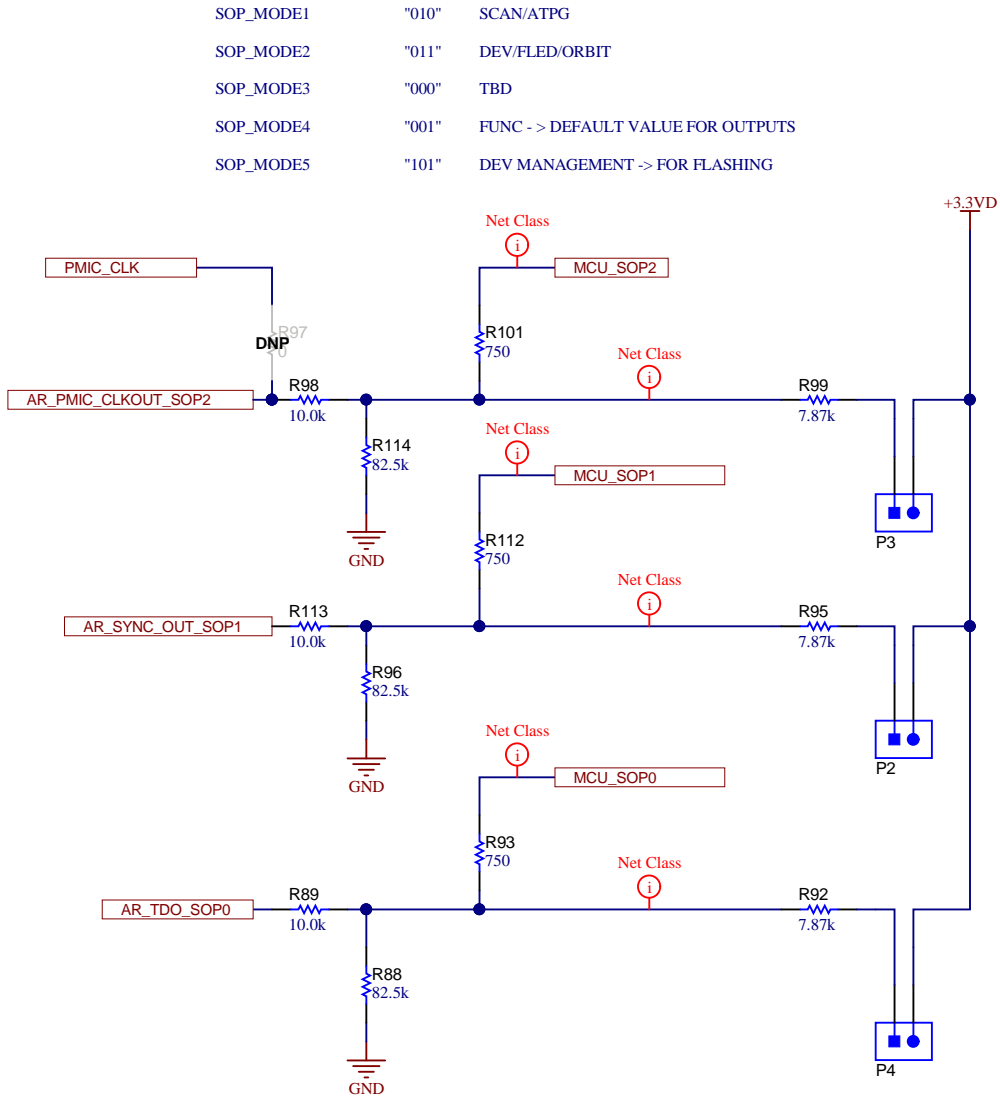
LC FILTERING REFERENCE



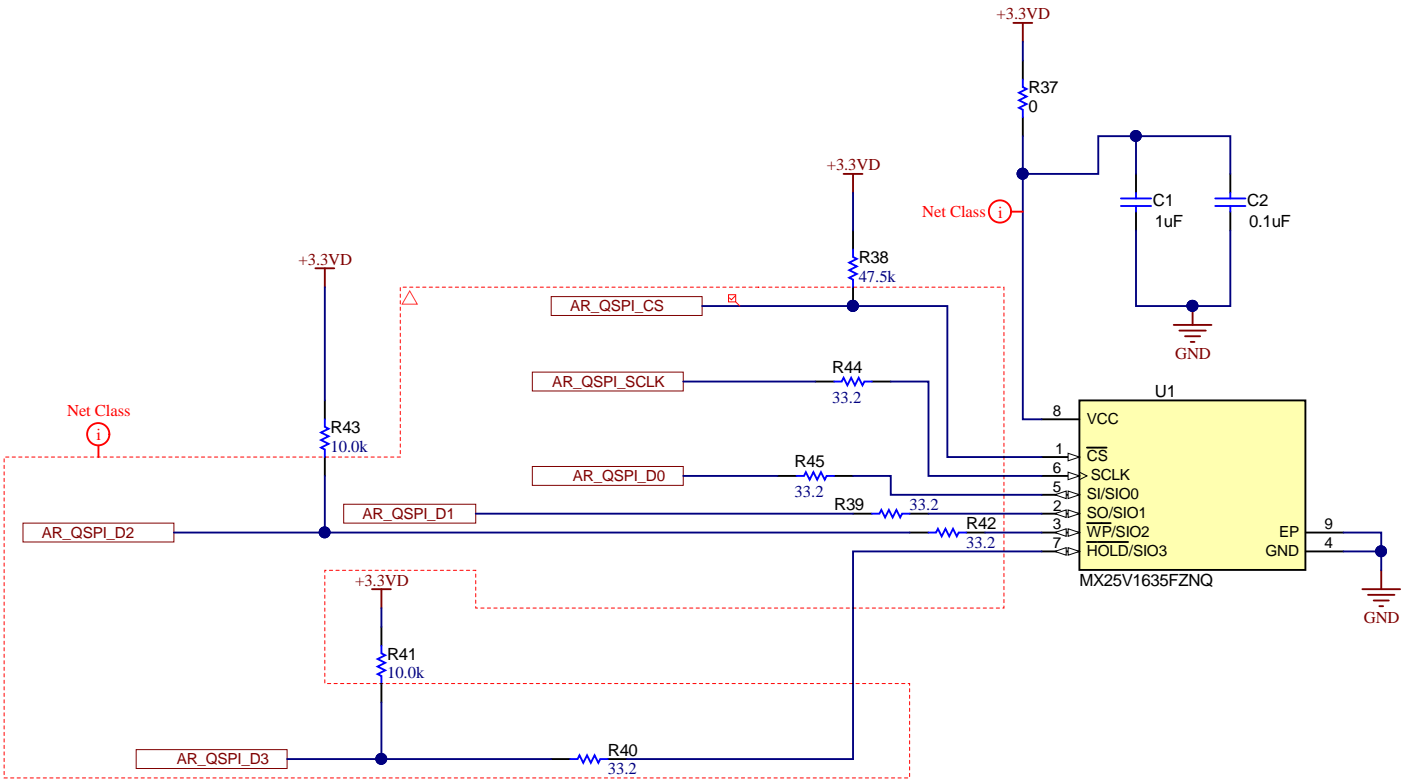
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Orderable: AWR2243BOOST	Designed for: Public Release	Mod. Date: 10/7/2019
TID #: N/A	Project Title: PROC099	
Number: PROC099	Rev: A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 5 of 16
Drawn By: Adrian Ozer	File: PROC099A LC_Filtering_Reference.SchDoc	Size: B
Engineer: Adrian Ozer	Contact: http://www.ti.com/support	

SOP HEADERS REFERENCE



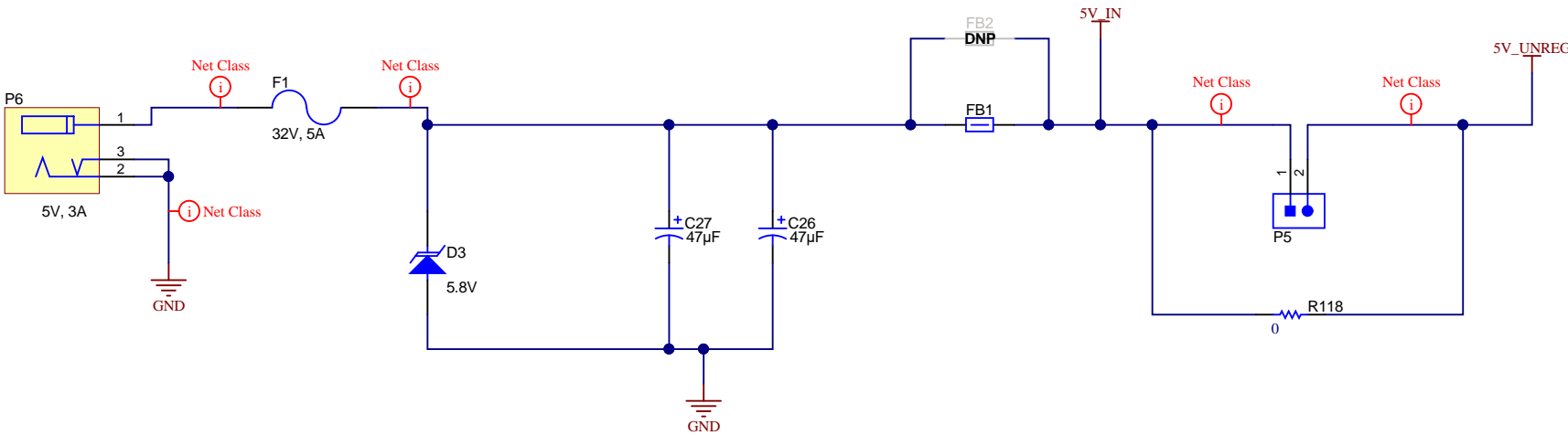
QSPI FLASH REFERENCE



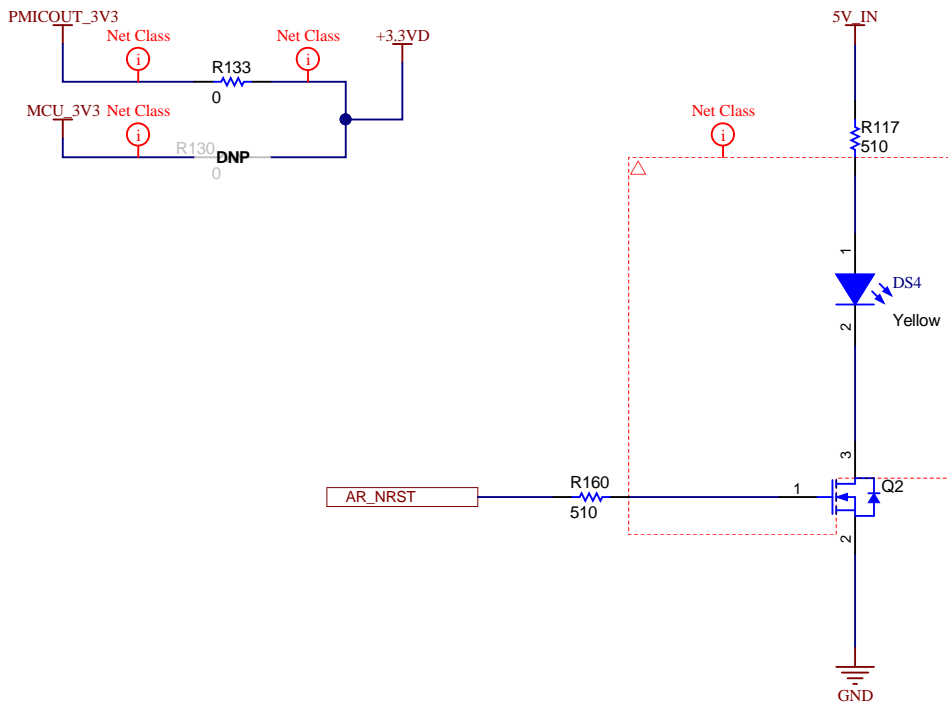
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Orderable: AWR2243BOOST	Designed for: Public Release	Mod. Date: 10/7/2019
TID #: N/A	Project Title: PROC099	
Number: PROC099	Rev: A	Sheet Title: QSPI flash section
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 7 of 16
Drawn By: Adrian Ozer	File: PROC099A_QSPI_Flash_Reference.SchDoc	Size: B
Engineer: Adrian Ozer	Contact: http://www.ti.com/support	

POWER SUPPLY CONNECTOR

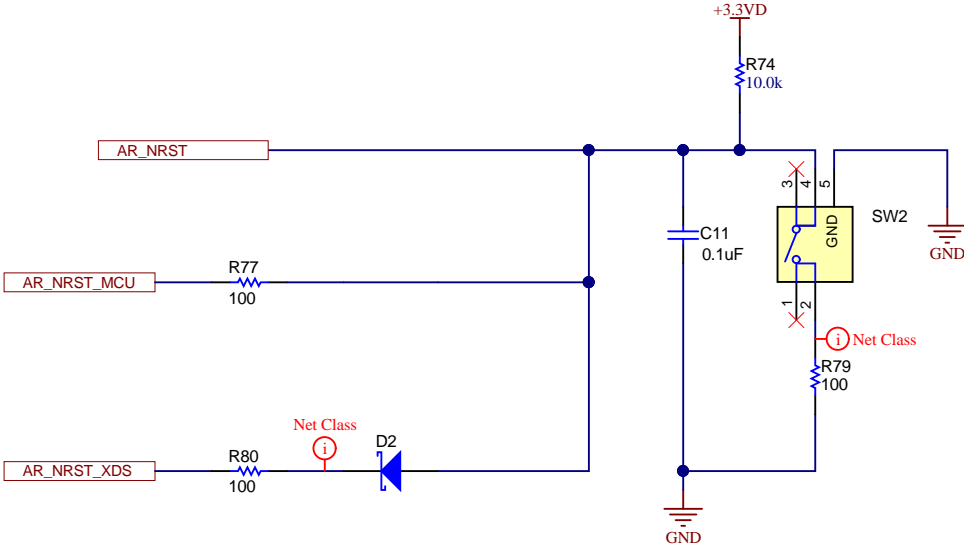


3P3 SUPPLY FROM PMIC OR FROM THE MCU

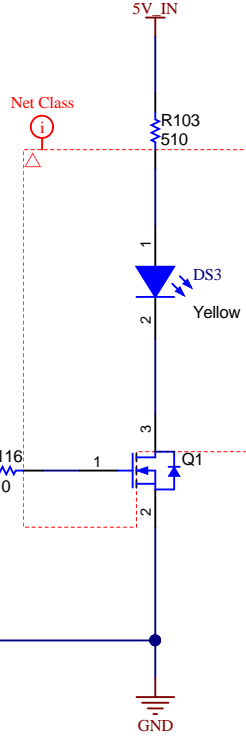
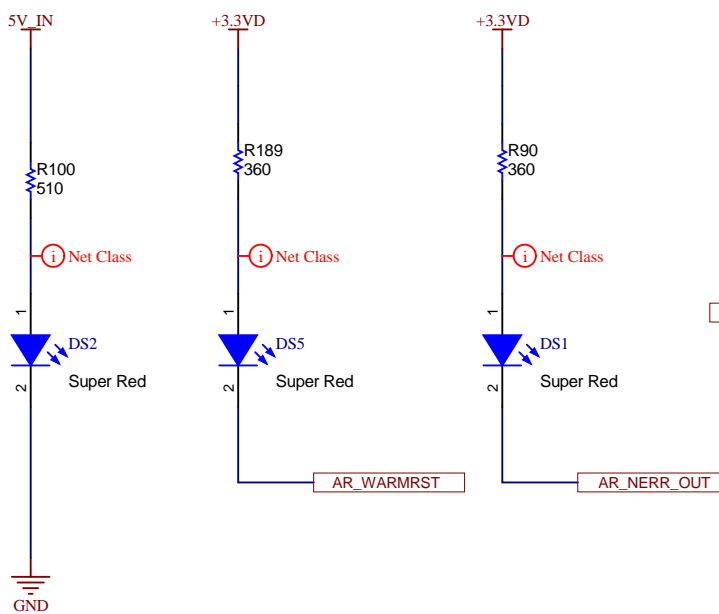


RESET AND LEDS

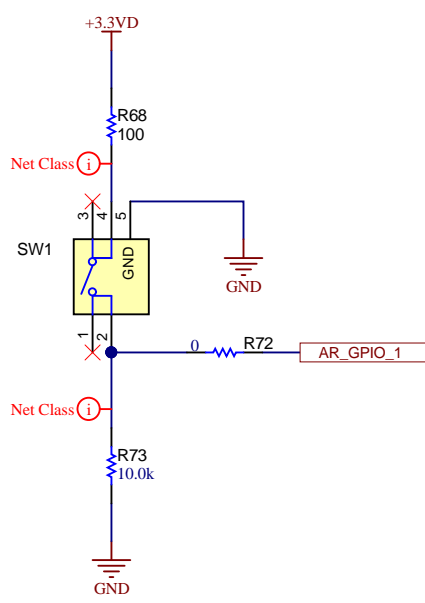
RESET



INDICATION LEDS



TRIGGER GPIO



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A

B

C

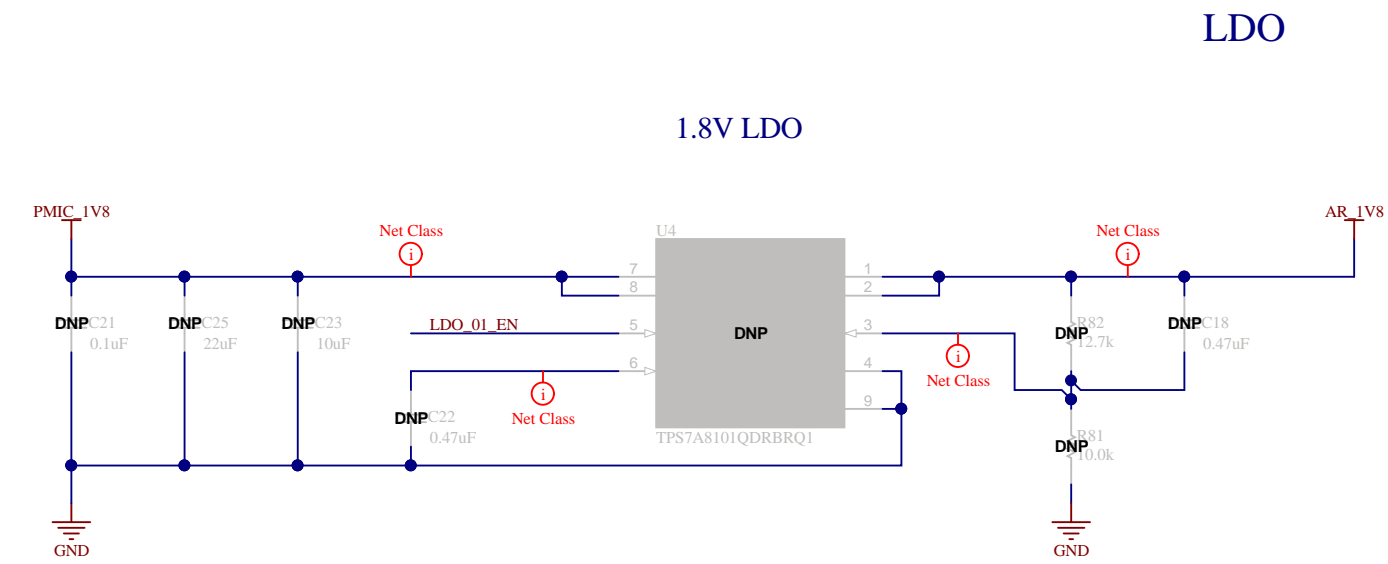
D

A

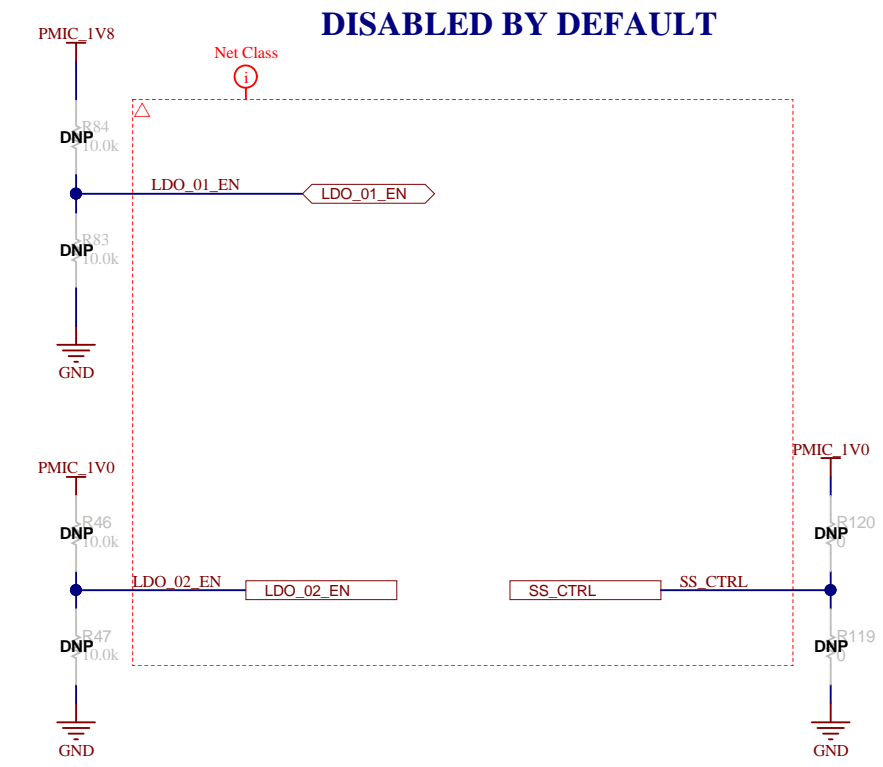
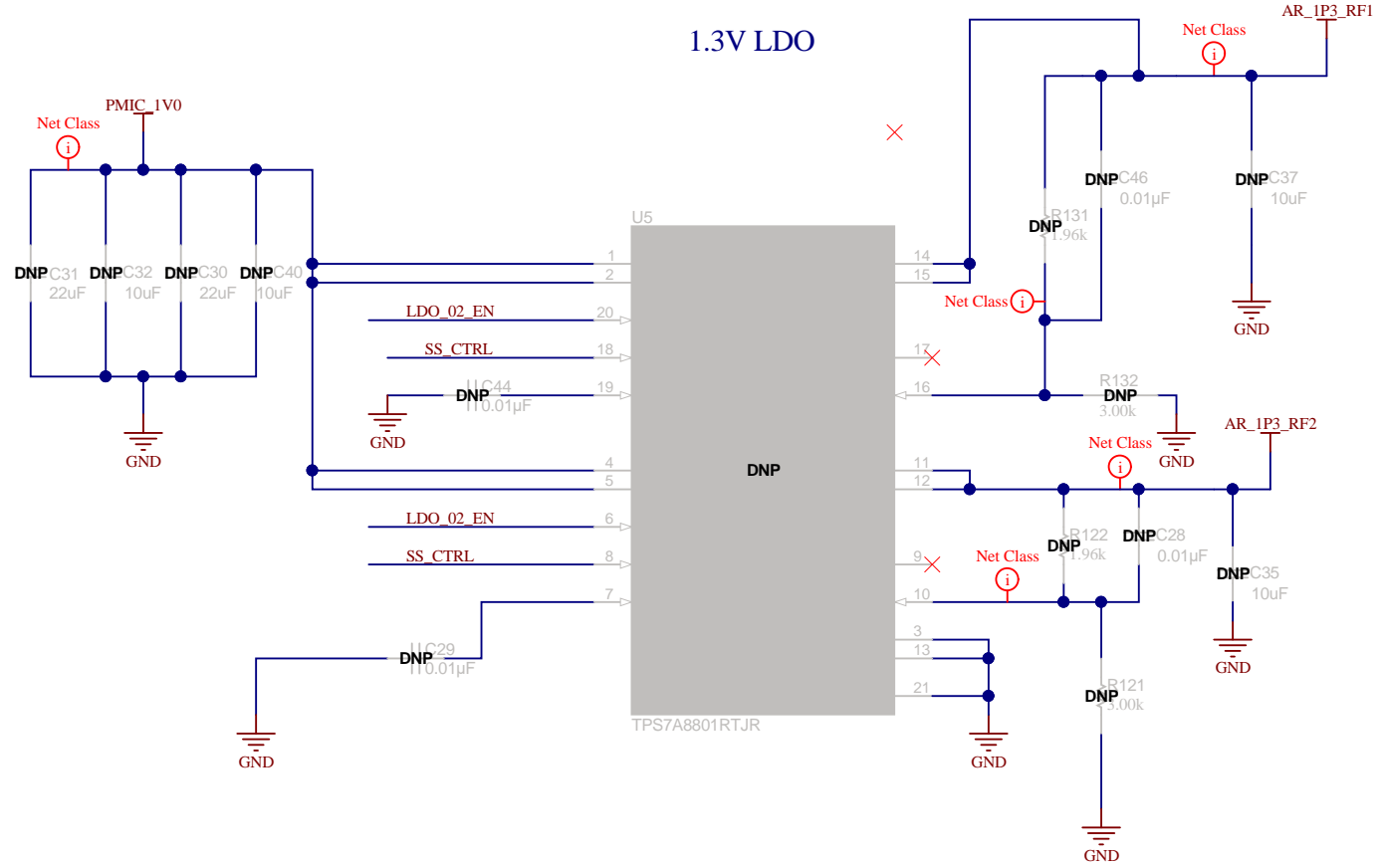
B

C

D

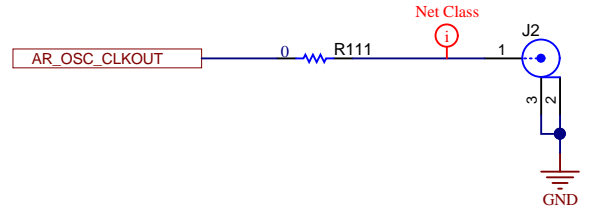
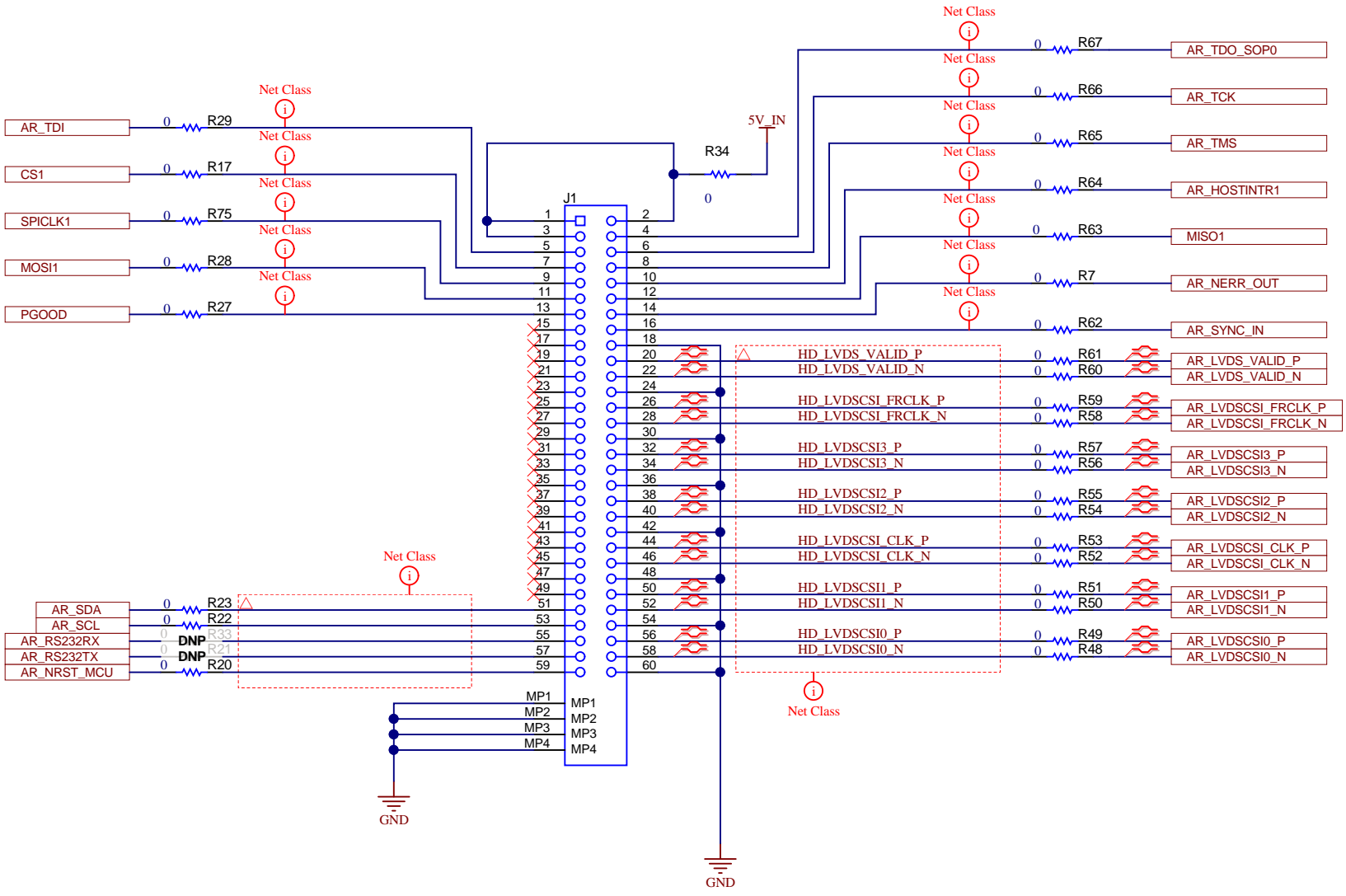


LDOs ARE FOR DEBUG PURPOSES ONLY
DURING LDO OPERATION PMIC_1V8 IS 2.3V AND PMIC_1V0 IS 1.8V

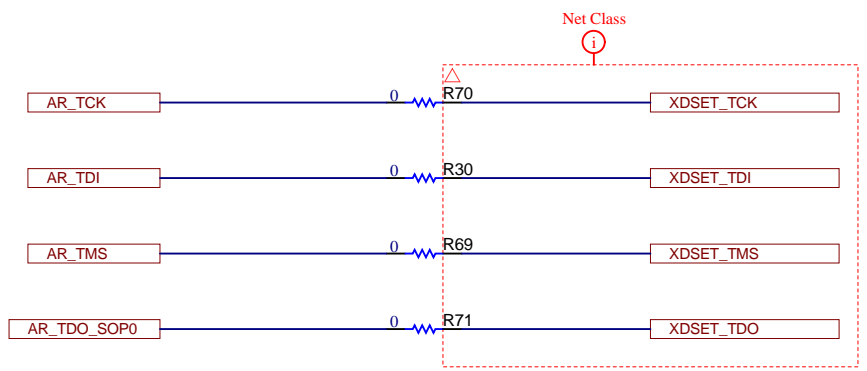


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HD CONNECTOR FOR LVDS/CSI AND JTAG

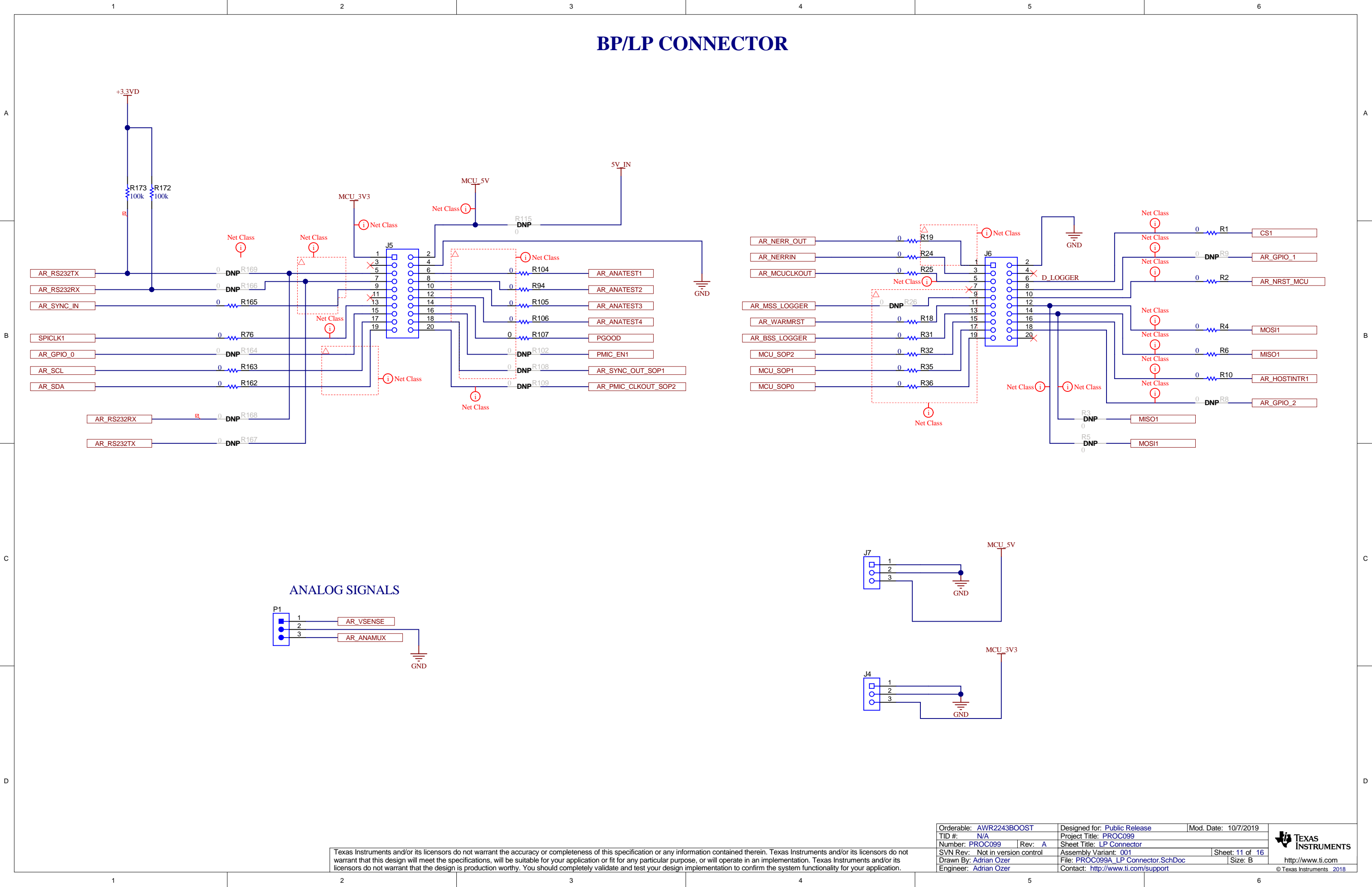


JTAG



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BP/LP CONNECTOR

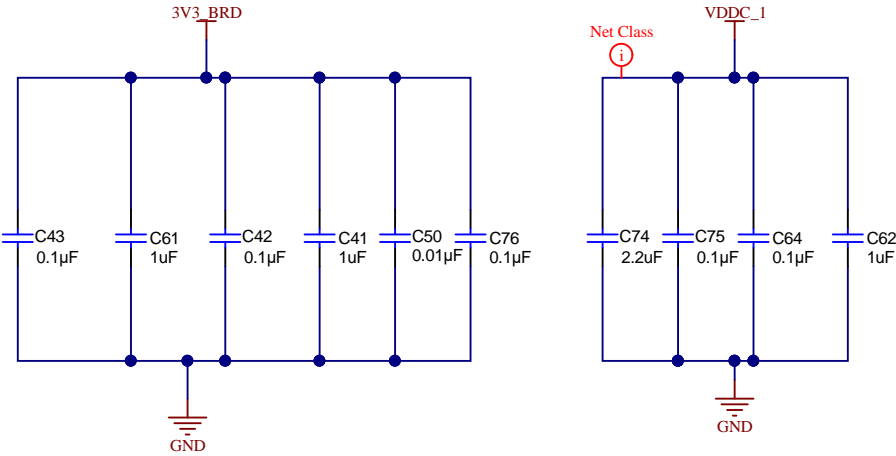
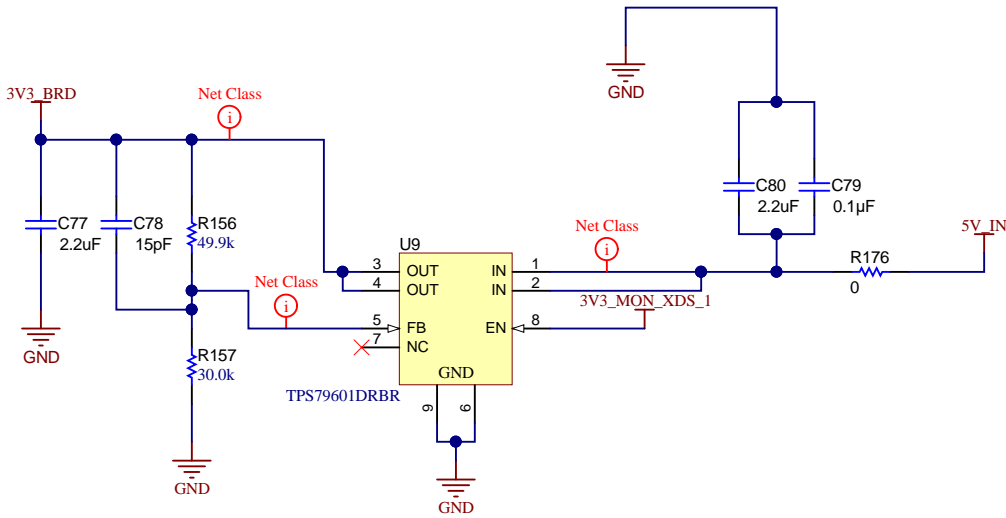


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Orderable: AWR2243BOOST	Designed for: Public Release	Mod. Date: 10/7/2019
TID #: N/A	Project Title: PROC099	
Number: PROC099	Rev: A	Sheet Title: LP Connector
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 11 of 16
Drawn By: Adrian Ozer	File: PROC099A_LP Connector.SchDoc	Size: B
Engineer: Adrian Ozer	Contact: http://www.ti.com/support	

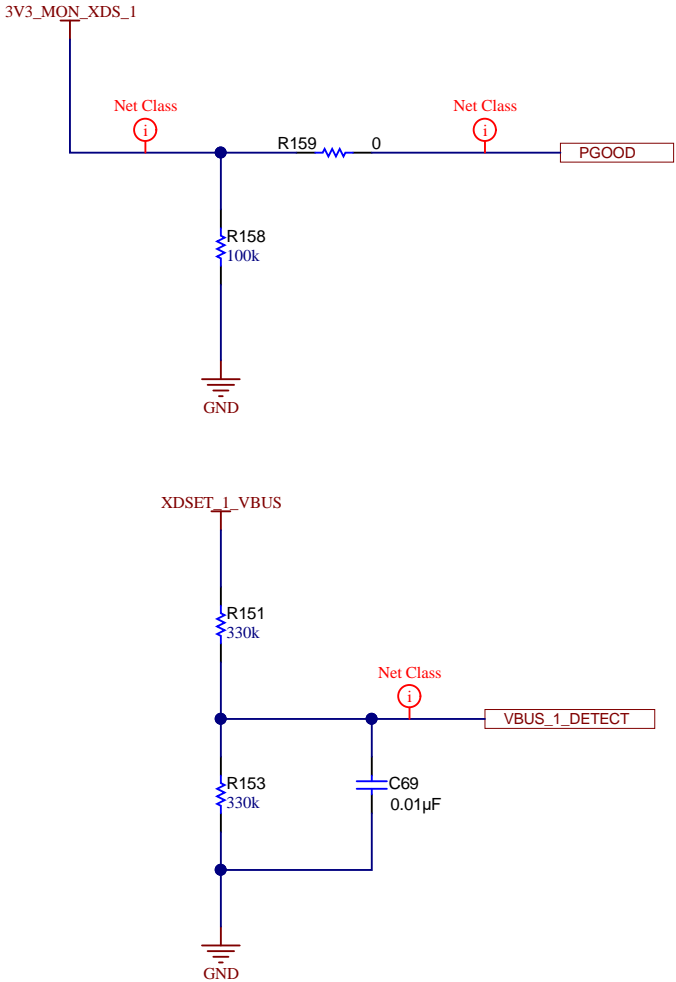
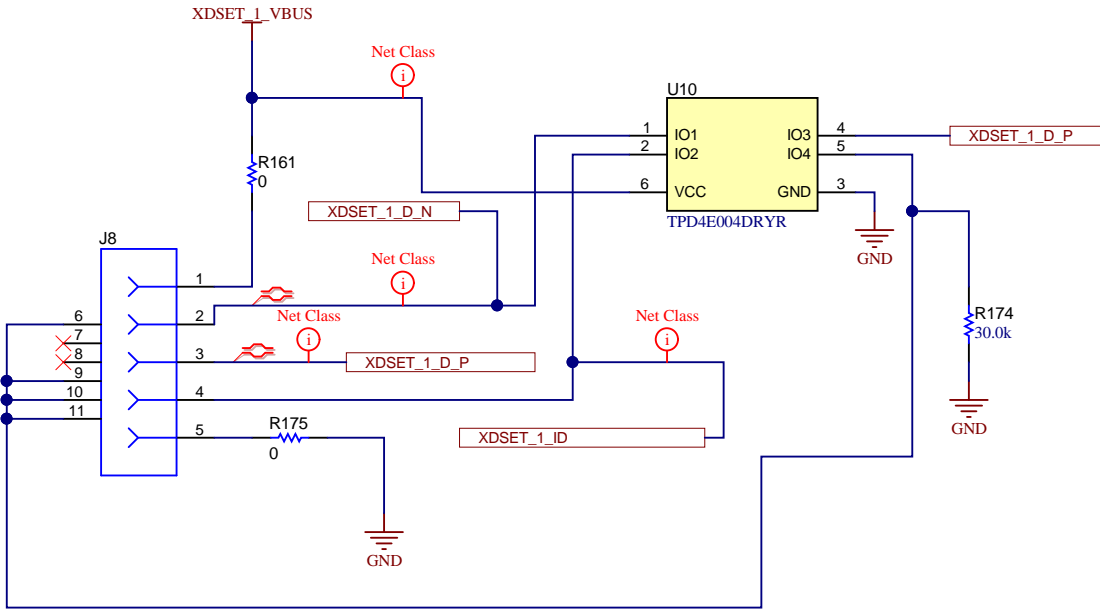
XDS110(1/2)

3.3V LDO FOR PERIPHERALS



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

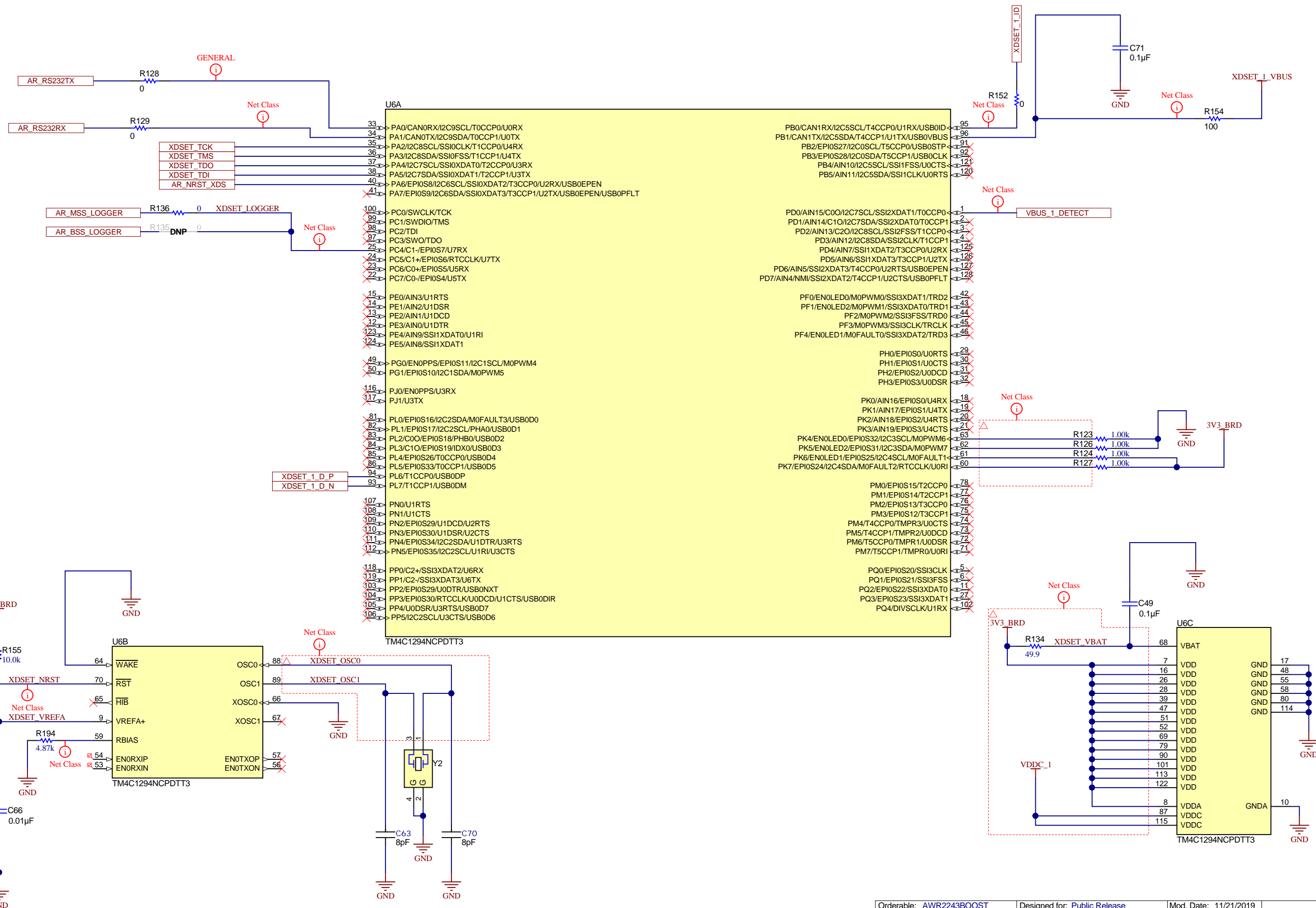
USB PORT AND ESD




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Orderable: AWR2243BOOST	Designed for: Public Release	Mod. Date: 11/21/2019
TID #: N/A	Project Title: PROC099	
Number: PROC099	Rev: A	Sheet Title: XDS110 Interface_1A
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 12 of 16
Drawn By: Adrian Ozer	File: PROC099A_XDS110 Interface_1A.SchDoc	Size: B
Engineer: Adrian Ozer	Contact: http://www.ti.com/support	

XDS110(2/2)

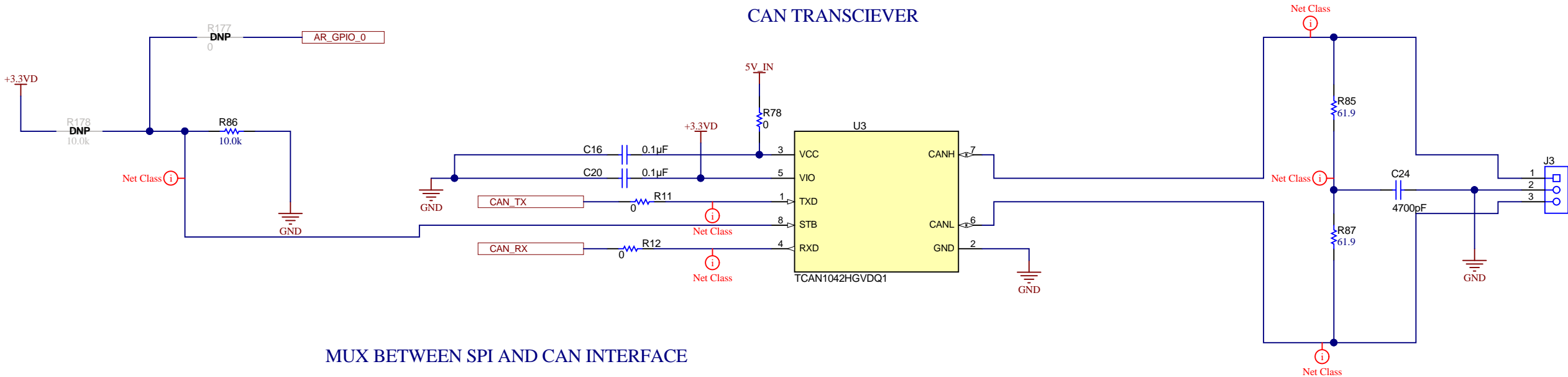


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TID #: N/A	Project Title: PROC099		
Number: PROC099	Rev: A	Sheet Title: XDS110 Interface_1B	
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 13 of 16	
Drawn By: Adrian Ozer	File: PROC099A_XDS110 Interface_1B.SchDoc	Size: B	
Engineer: Adrian Ozer	Contact: http://www.ti.com/support		

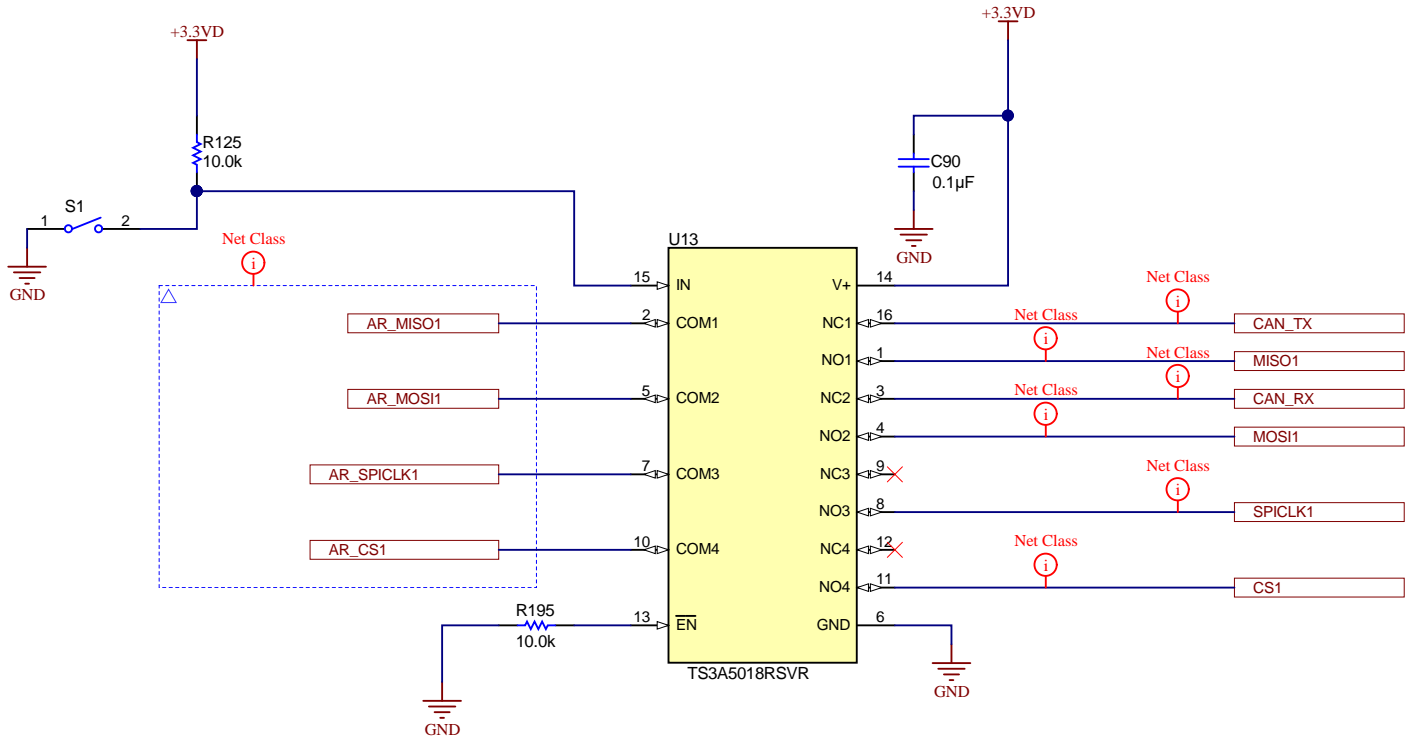
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CAN INTERFACE

CAN TRASCIEVER



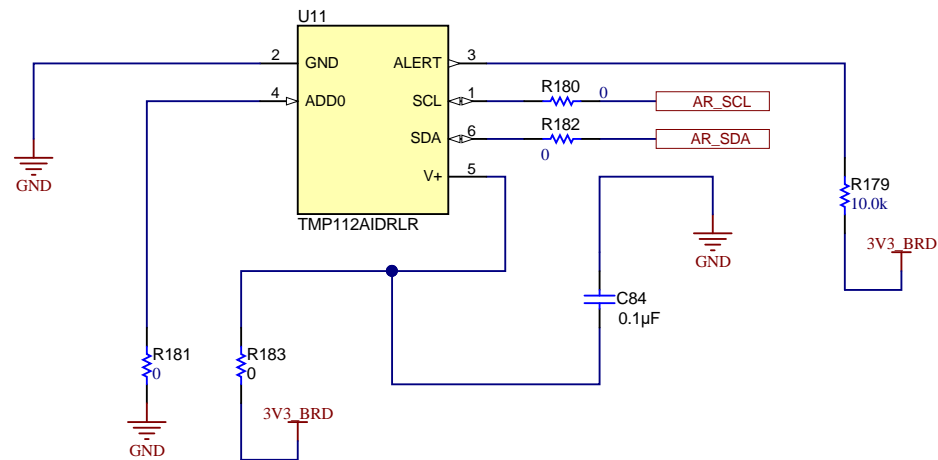
MUX BETWEEN SPI AND CAN INTERFACE



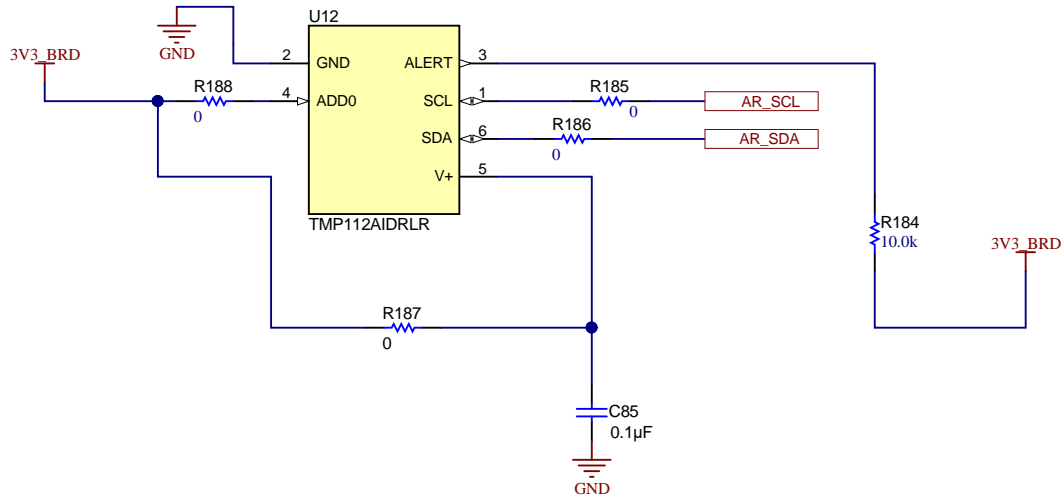
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TID #:	N/A	Project Title: PROC099	
Number: PROC099	Rev: A	Sheet Title: CAN Interface	
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 14 of 16	
Drawn By: Adrian Ozer	File: PROC099A_CAN Interface.SchDoc	Size: B	
Engineer: Adrian Ozer	Contact: 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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Orderable: AWR2243BOOST	Designed for: Public Release	Mod. Date: 10/7/2019
TID #: N/A	Project Title: PROC099	
Number: PROC099	Rev: A	Sheet Title: Tempsensor
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 15 of 16
Drawn By: Adrian Ozer	File: PROC099A_Tempsensor.SchDoc	Size: B
Engineer: Adrian Ozer	Contact: http://www.ti.com/support	

