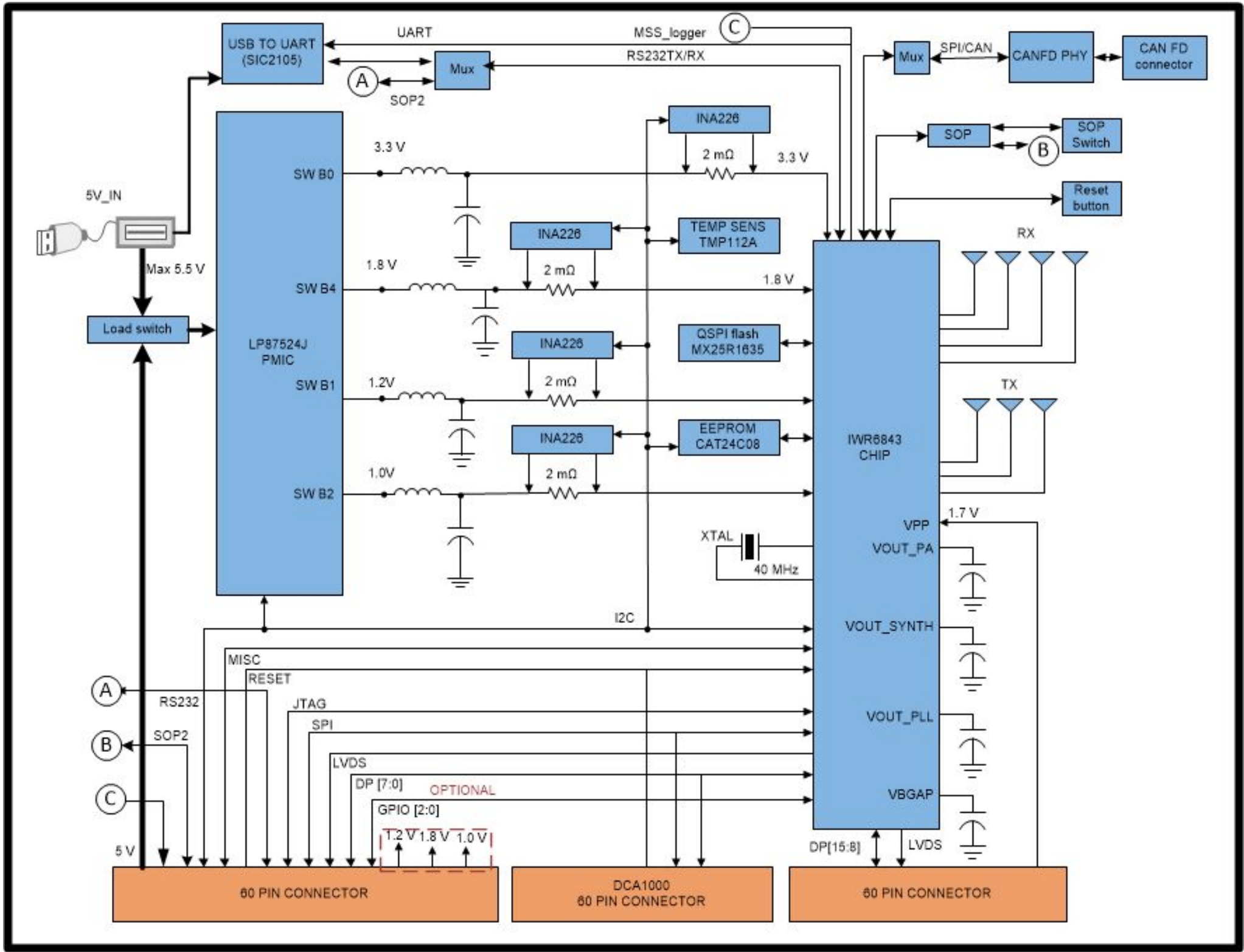


BLOCK DIAGRAM

Revision History

Rev	ECN #	Approved Date	Approved by	Notes
B	1	3/2/2020	Charles Oladimeji	REV B



S.No	DESCRIPTION	I2C ADDRESS
1	CURRENT SENSOR 3.3V	100 0100
2	CURRENT SENSOR 1.8V	100 0000
3	CURRENT SENSOR 1.2V	100 0001
4	CURRENT SENSOR 1.0V	100 0101
5	TEMPERATURE SENSOR1	100 1011
6	LP8770 PMIC	110 0000
7	EEPROM	1010 0XX

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TID #: N/A	Project Title: IWR6843ISK	
Number: PROC073	Rev: D	Sheet Title: BLOCK DIAGRAM
SVN Rev: Not in version control	Assembly Variant: 002_AWR	Sheet: 1 of 13
Drawn By: Charles F. Oladimeji	File: PROC073D_Block_Diagram.SchDoc	Size: B
Engineer: Charles F. Oladimeji	Contact: http://www.ti.com/support	

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

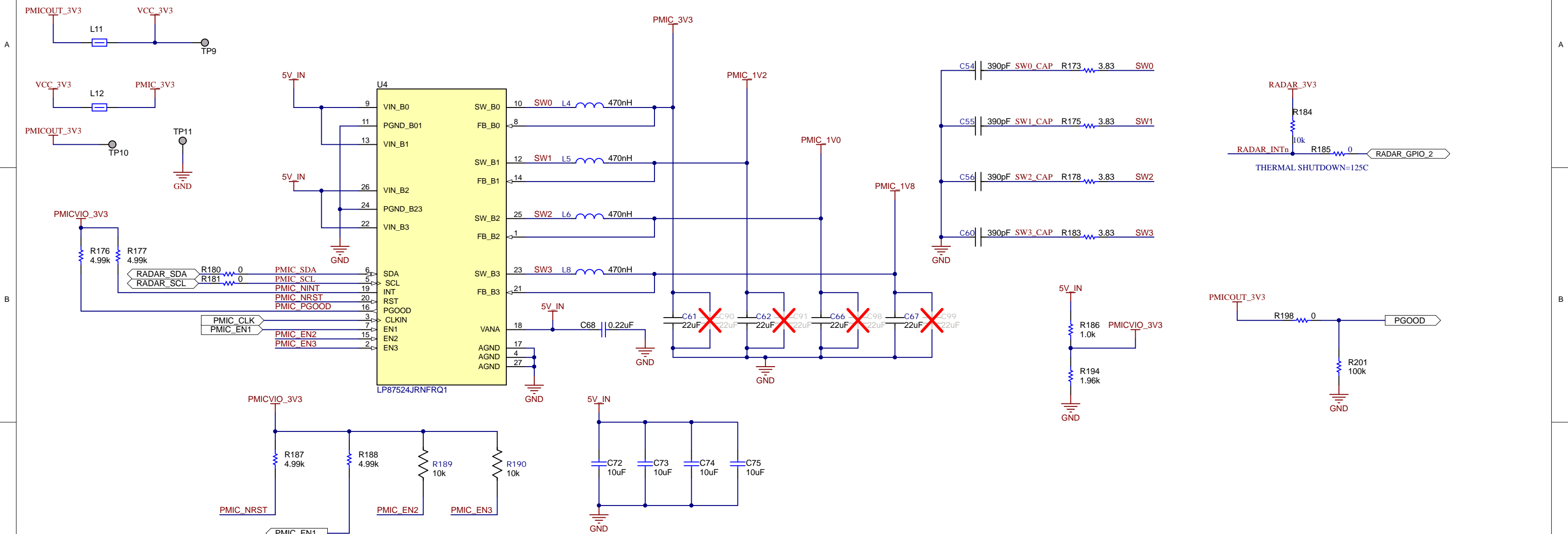
TABLE OF CONTENTS

SHEET NO.	SHEET NAME
1	Block diagram
2	Table of Contents
3	PMIC
4	IWR6843 Chip
5	Decoupling caps_LC_Filters
6	QSPI Flash
7	60Pin HD Connector
8	Temp_Current_Sensor
9	USB to UART
10	DCA Connector
11	SOP Control
12	CAN Interface
13	Hardware

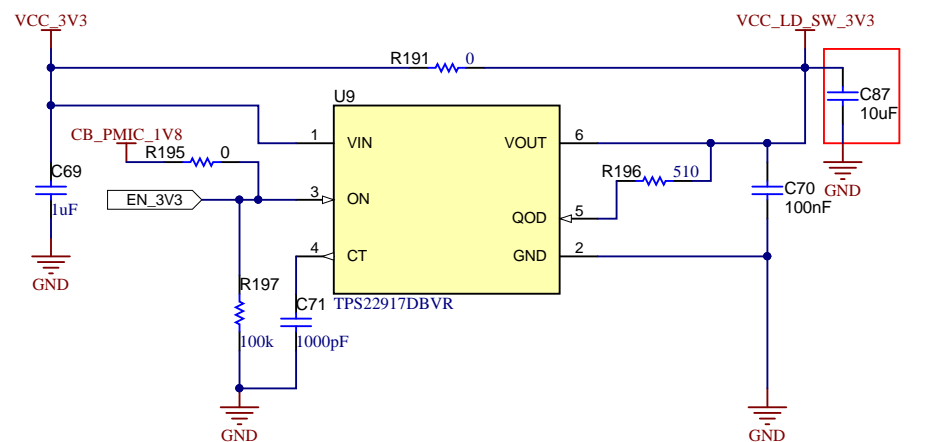
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TID #: N/A	Project Title: IWR6843ISK	
Number: PROC073	Rev: D	Sheet Title: TABLE OF CONTENTS
SVN Rev: Not in version control	Assembly Variant: 002_AWR	Sheet: 2 of 13
Drawn By: Charles F. Oladimeji	File: PROC073D_Table_Of_Contents.SchDoc	Size: B
Engineer: Charles F. Oladimeji	Contact: http://www.ti.com/support	

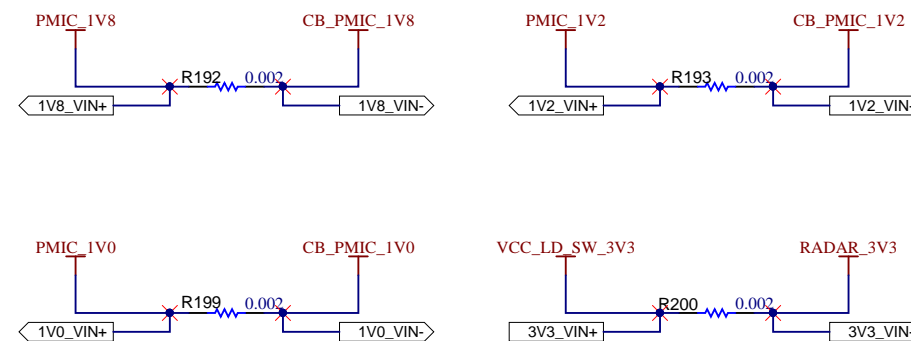
PMIC (3.3V, 1.2V, 1.0V, 1.8V OUTPUTS)



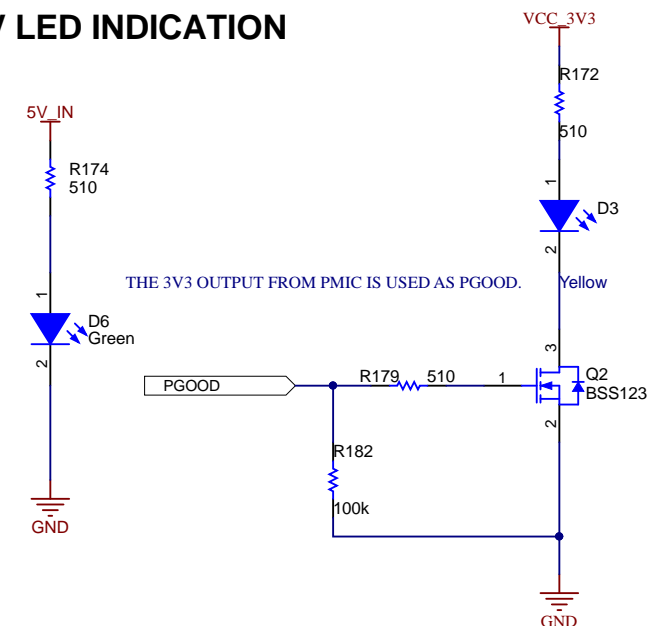
Load switch for delaying 3.3V to IWR6483 module




Current Sense Resistors



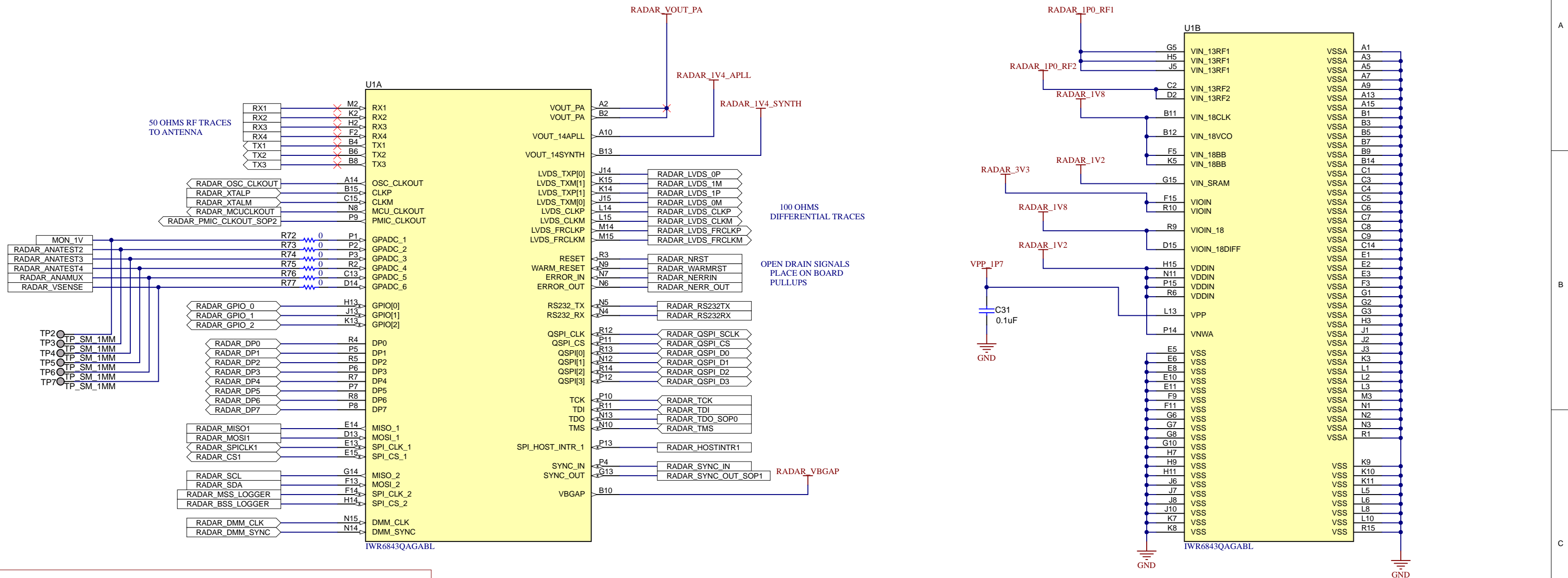
5V LED INDICATION



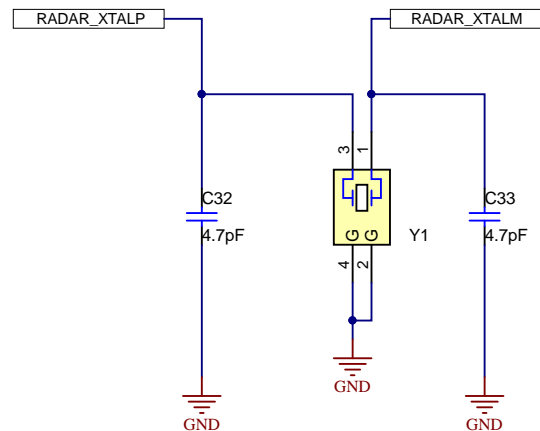
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TID #: N/A	Project Title: IWR6843ISK		
Number: PROC073	Rev: D	Sheet Title: PMIC	
SVN Rev: Not in version control	Assembly Variant: 002_AWR	Sheet: 3 of 13	
Drawn By: Charles F. Oladimeji	File: PROC073D_PMIC.SchDoc	Size: B	
Engineer: Charles F. Oladimeji	Contact: http://www.ti.com/support		

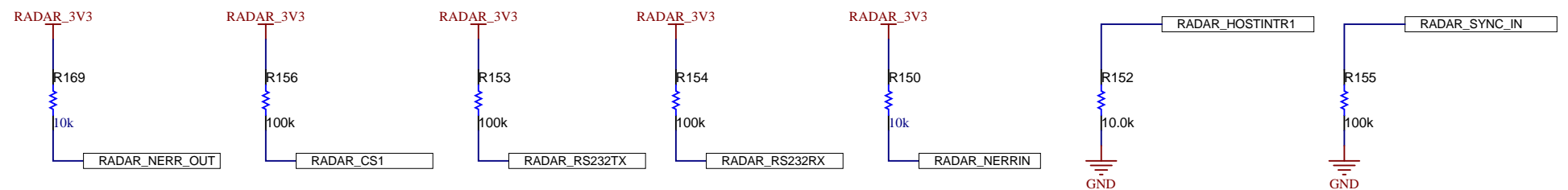
IWR6843 Chip



Crystal Oscillator 40MHz



PULL UPs/DOWNs FOR SPI CS1, NERRIN, RS232, SYNC_IN & HOST_INTn

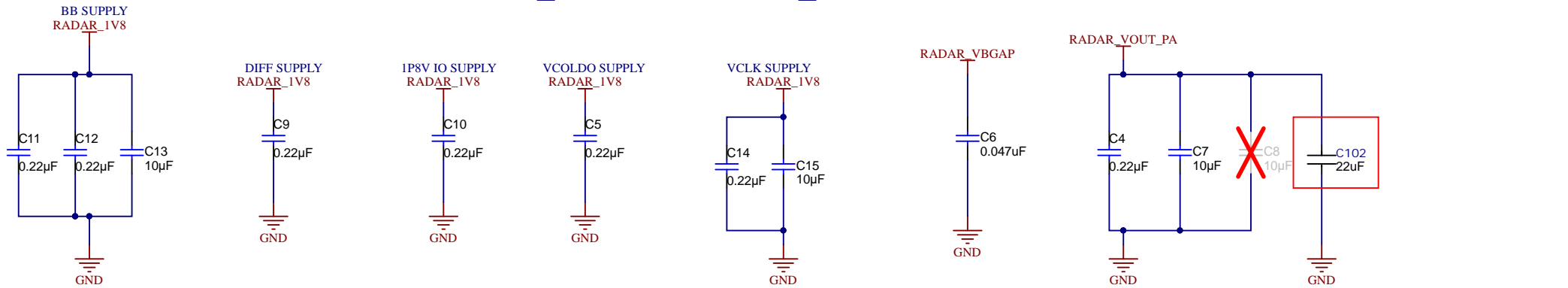


Orderable: AWR6843ISK-ODS	Designed for: Public Release	Mod. Date: 09-04-2020	 TEXAS INSTRUMENTS http://www.ti.com © Texas Instruments 2020
TID #: N/A	Project Title: IWR6843ISK		
Number: PROC073	Rev: D	Sheet Title: IWR6843_CHIP	
SVN Rev: Not in version control	Assembly Variant: 002_AWR	Sheet: 4 of 13	
Drawn By: Charles F. Oladimeji	File: PROC073D_IWR6843_Chip_SchDoc	Size: B	
Engineer: Charles F. Oladimeji	Contact: http://www.ti.com/support		

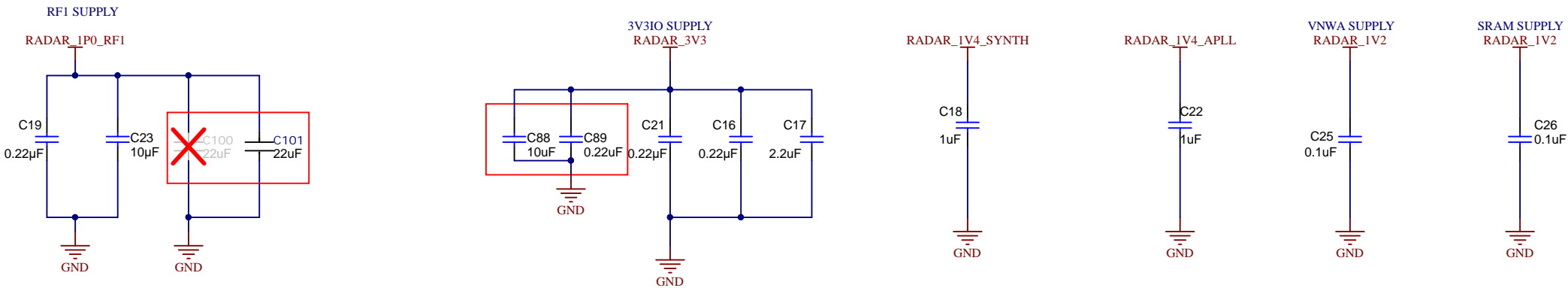
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SUPPLY_DECOUPLING_CAPS

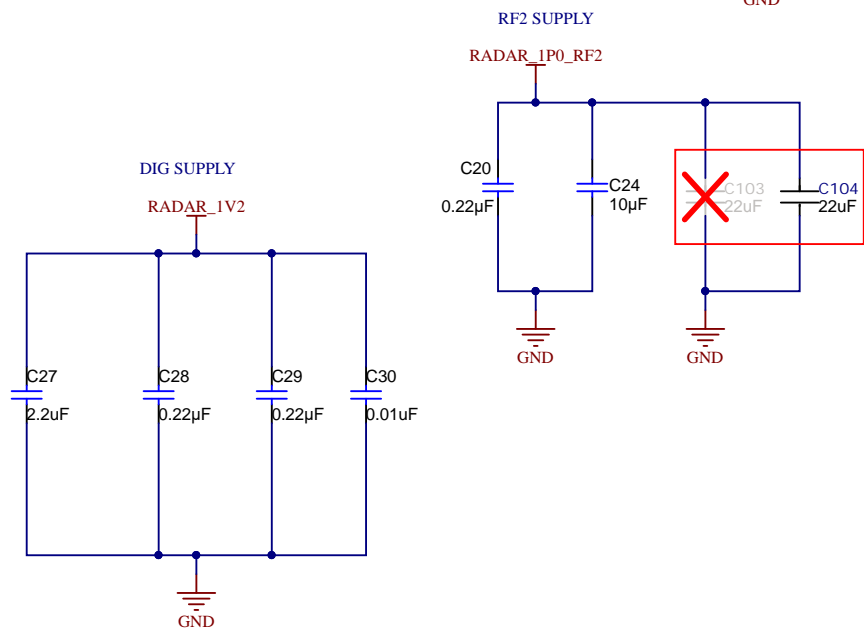
A



B

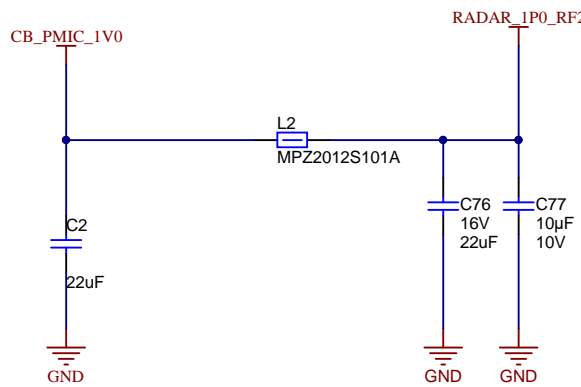
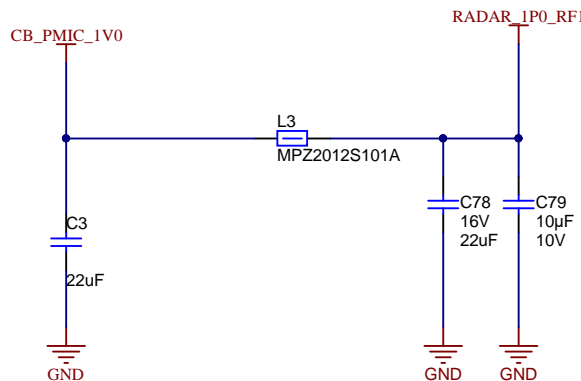
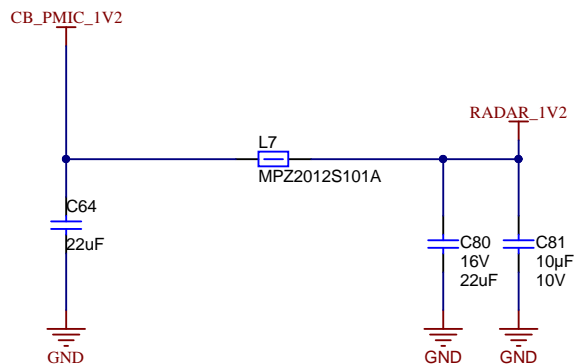
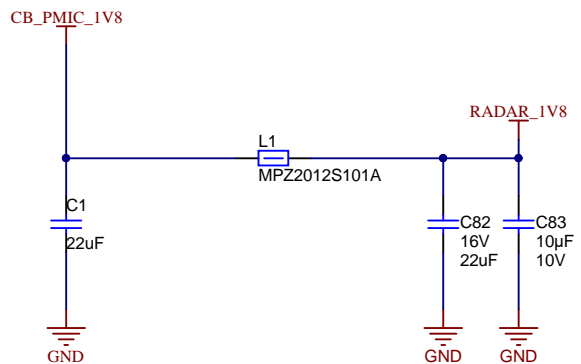


C



D

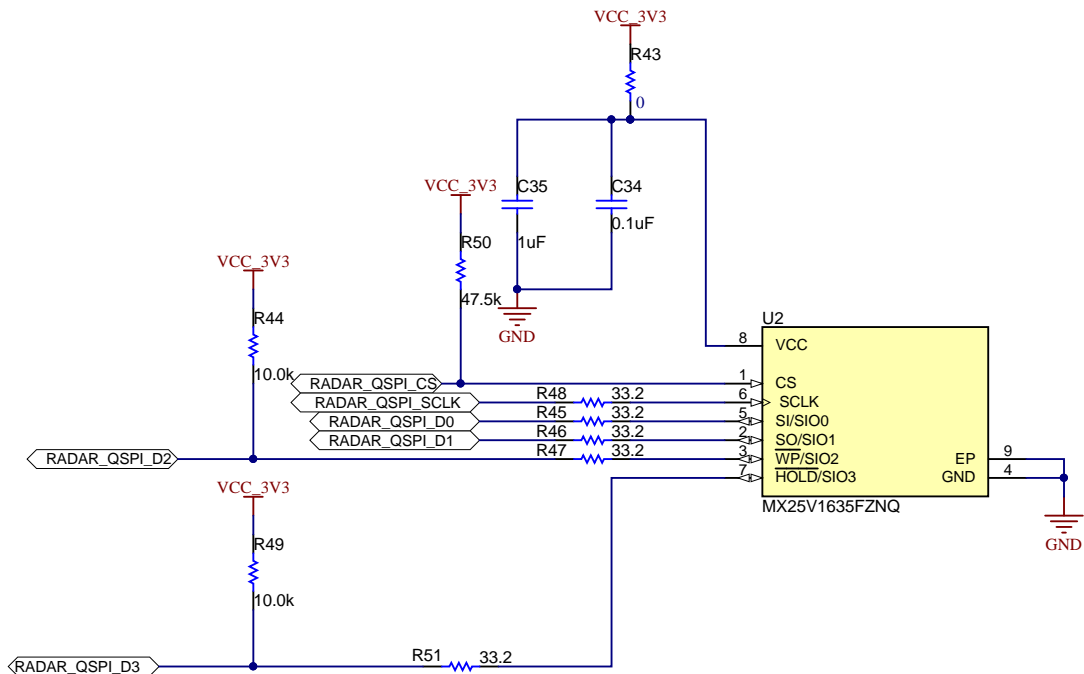
PMIC LC Filters



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TID #: N/A	Project Title: IWR6843ISK	
Number: PROC073	Rev: D	Sheet Title: Decoupling Caps
SVN Rev: Not in version control	Assembly Variant: 002_AWR	Sheet: 5 of 13
Drawn By: Charles F. Oladimeji	File: PROC073D_Decoupling_caps.SchDoc	Size: B
Engineer: Charles F. Oladimeji	Contact: http://www.ti.com/support	

QSPI FLASH

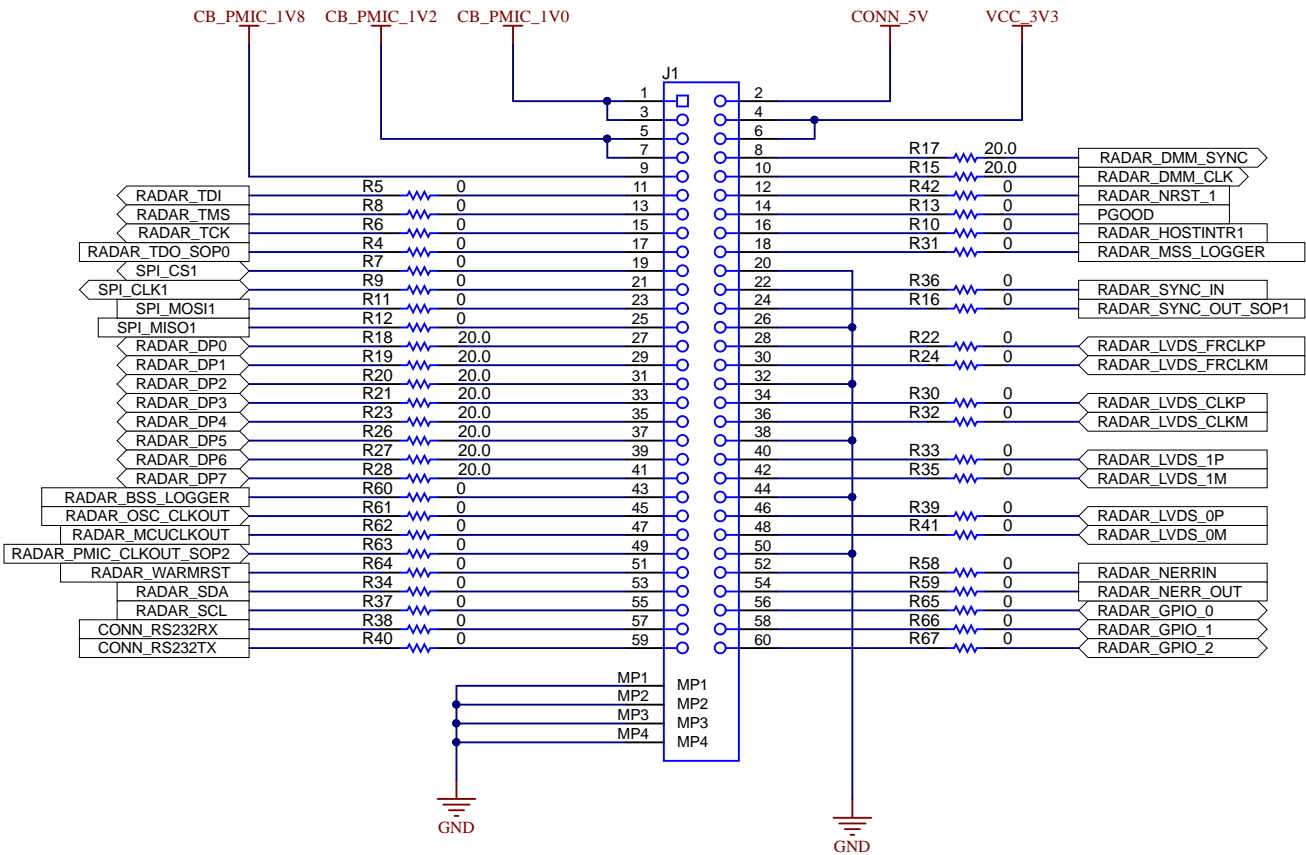


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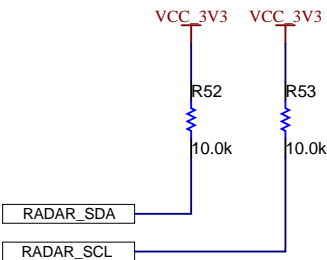
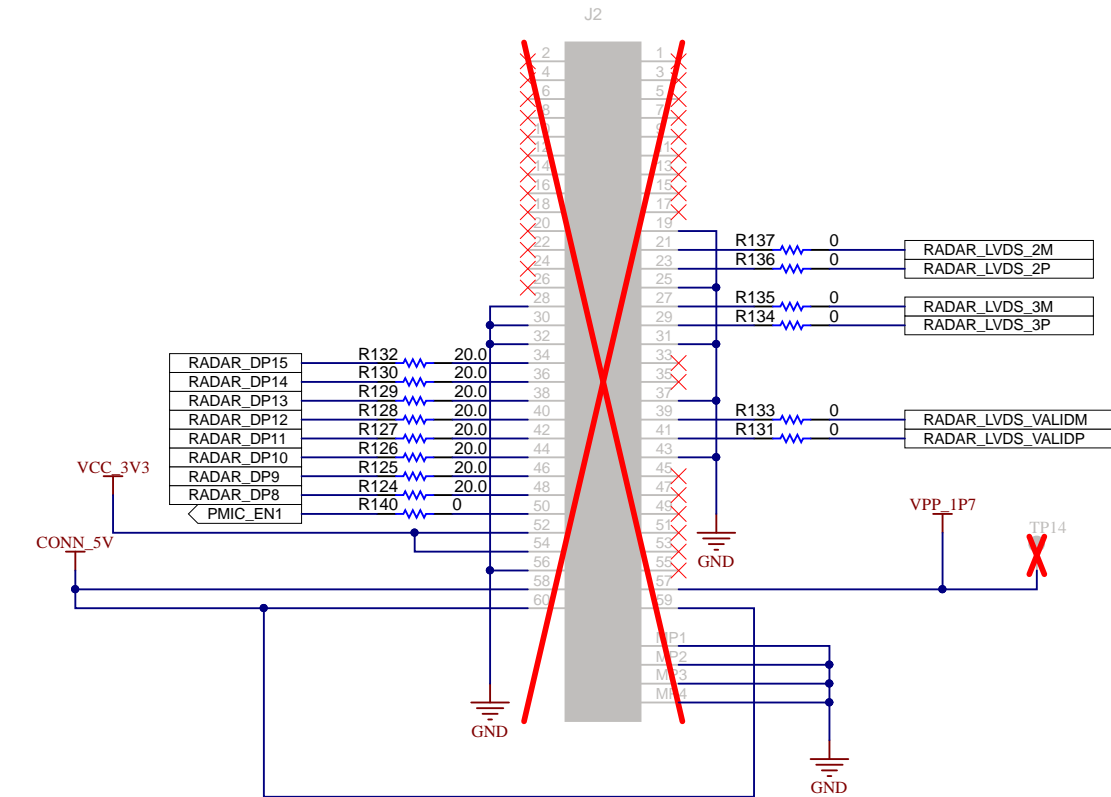
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Number: PROC073	Rev: D	Sheet Title: QSPI Flash
SVN Rev: Not in version control	Assembly Variant: 002_AWR	Sheet: 6 of 13
Drawn By: Charles F. Oladimeji	File: PROC073D_QSPI_Flash_section.SchDoc	Size: B
Engineer: Charles F. Oladimeji	Contact: http://www.ti.com/support	

CONNECTORS

60 PIN HD CONNECTOR



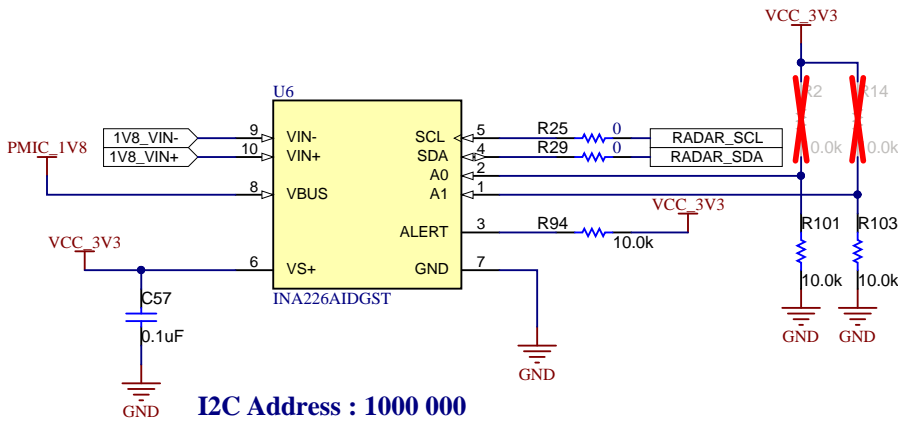
60 PIN HD CONNECTOR FOR xWRxxxx DEVICES COMPATABILITY



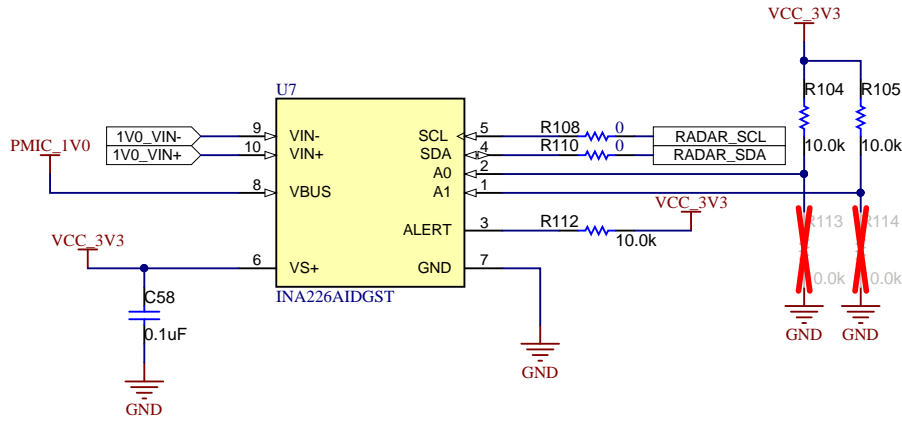
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Orderable: AWR6843ISK-ODS	Designed for: Public Release	Mod. Date: 09-04-2020
TID #: N/A	Project Title: IWR6843ISK	
Number: PROC073	Rev: D	Sheet Title: HD Connector
SVN Rev: Not in version control	Assembly Variant: 002_AWR	Sheet: 7 of 13
Drawn By: Charles F. Oladimeji	File: PROC073D_HD_Connector_60Pin.SchDoc	Size: B
Engineer: Charles F. Oladimeji	Contact: http://www.ti.com/support	

CURRENT SENSOR

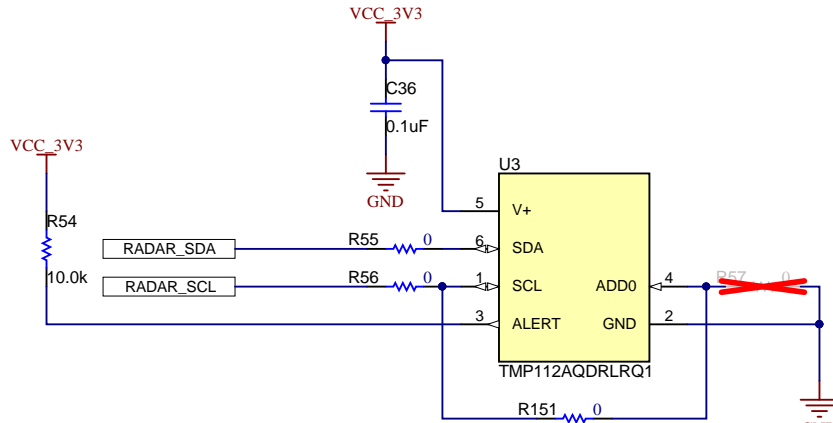


I2C Address : 1000 000



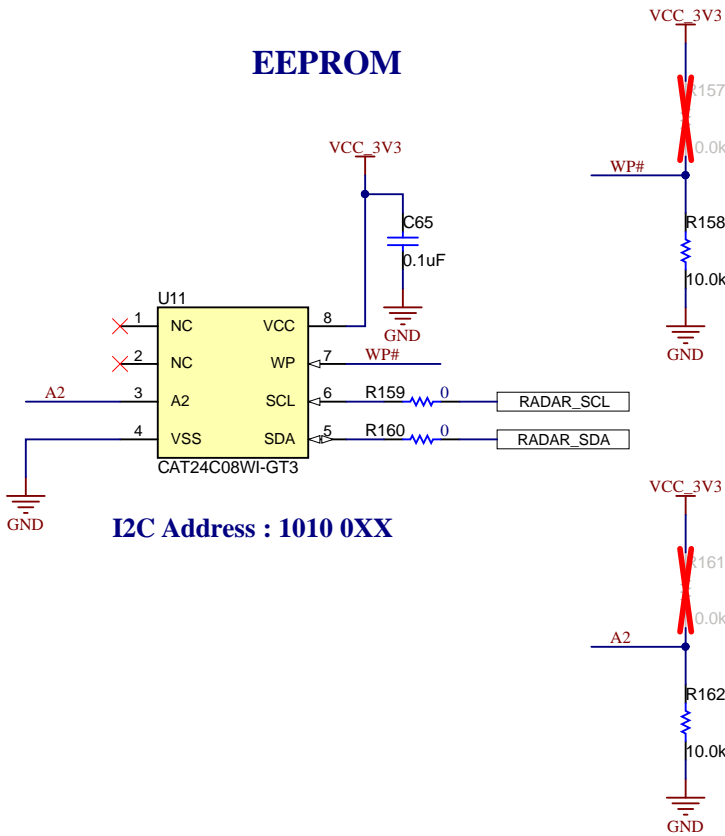
I2C Address : 1000 101

TEMPERATURE SENSOR

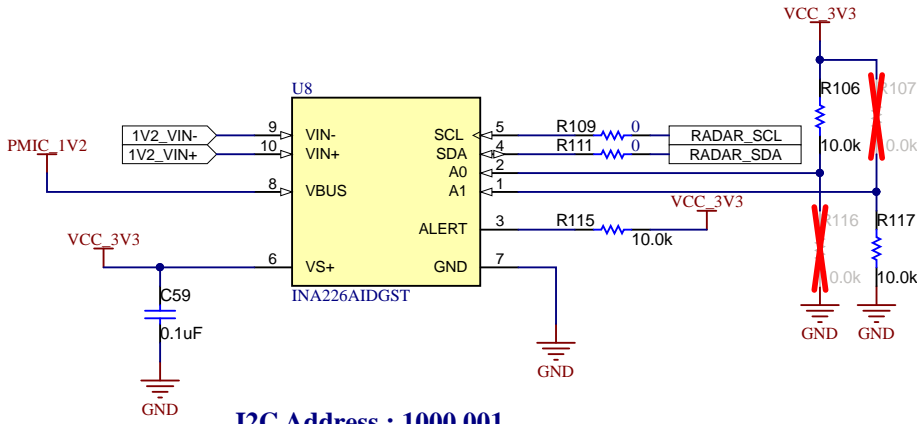


I2C Address : 1001 011

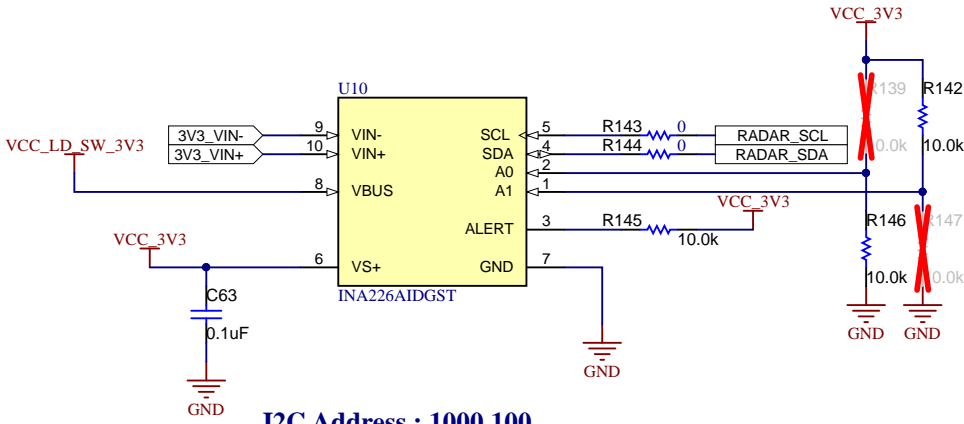
EEPROM



I2C Address : 1010 0XX

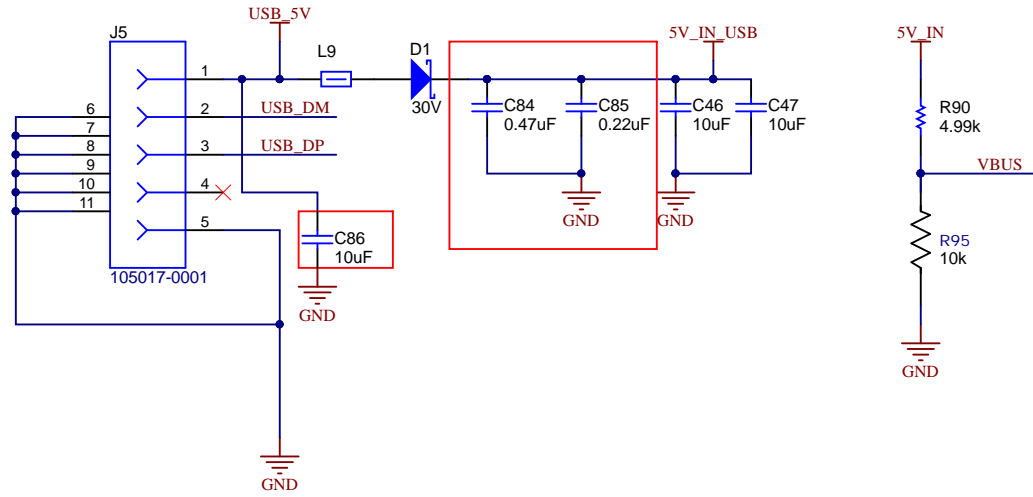


I2C Address : 1000 001

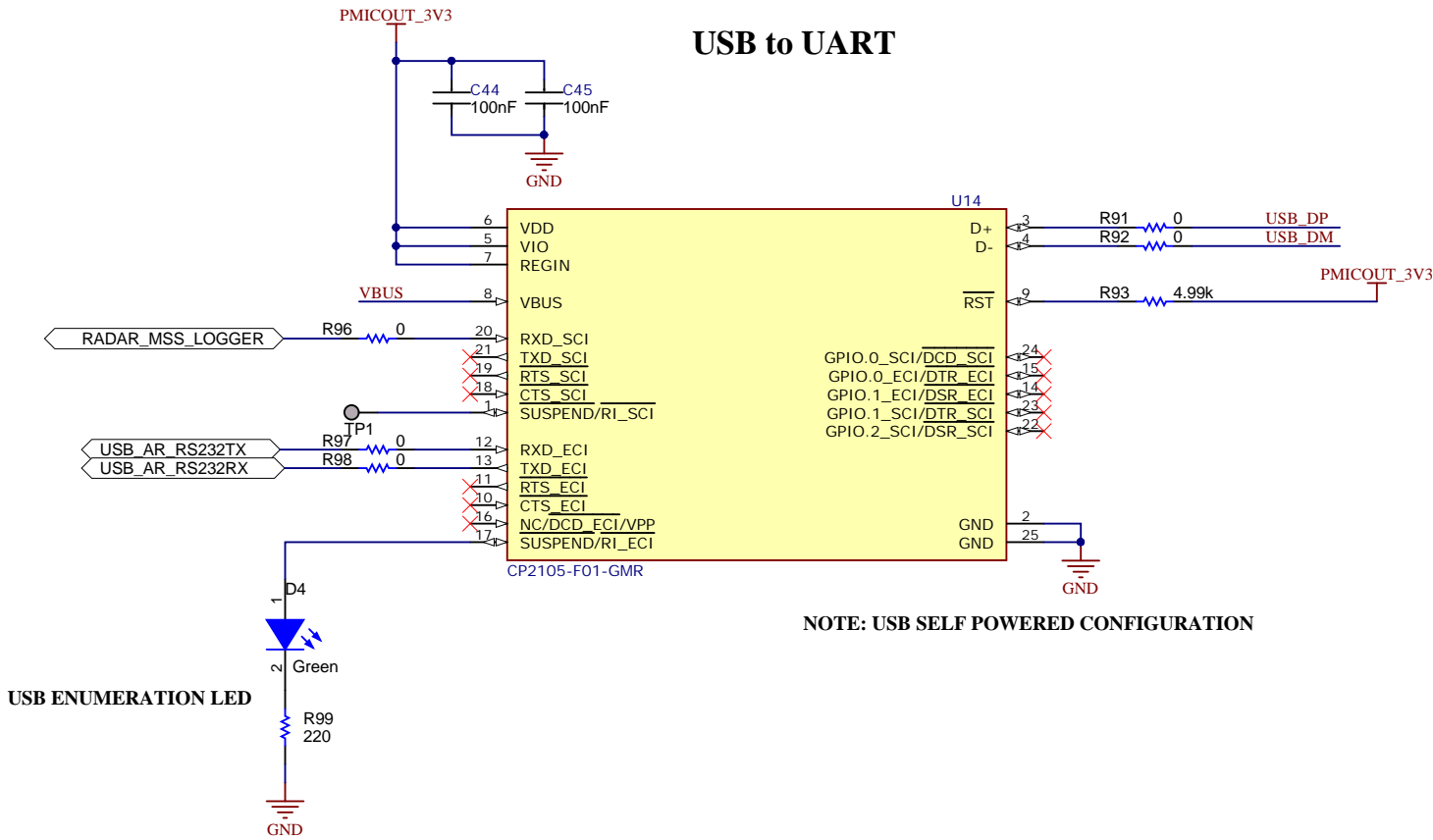


I2C Address : 1000 100

USB CONNECTOR

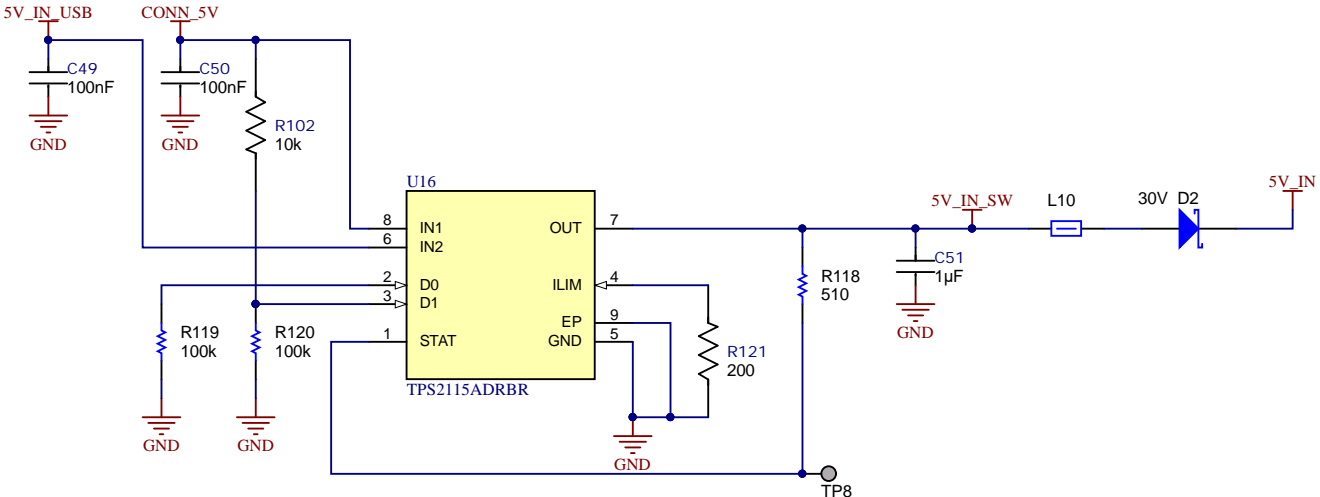


USB to UART

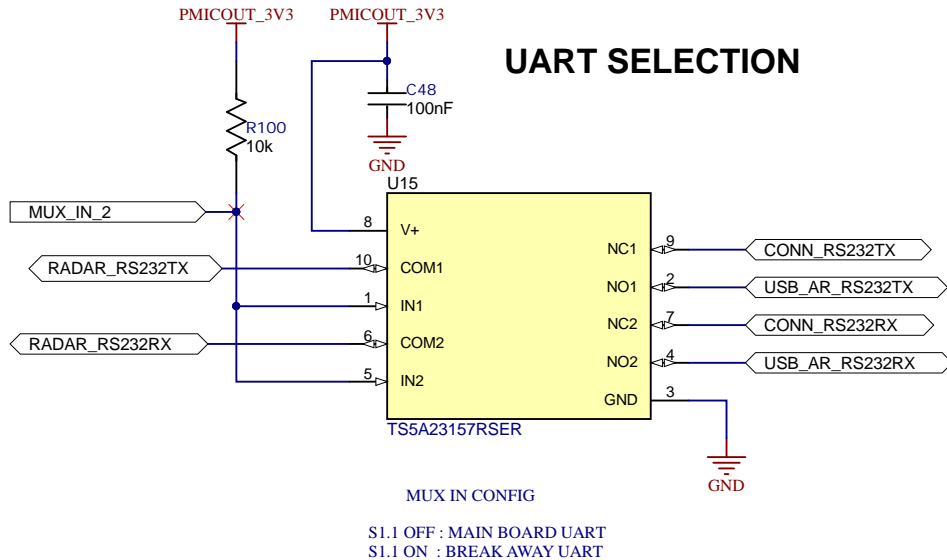


NOTE: USB SELF POWERED CONFIGURATION

CONNECTOR PWR / USB PWR LOAD SWITCH



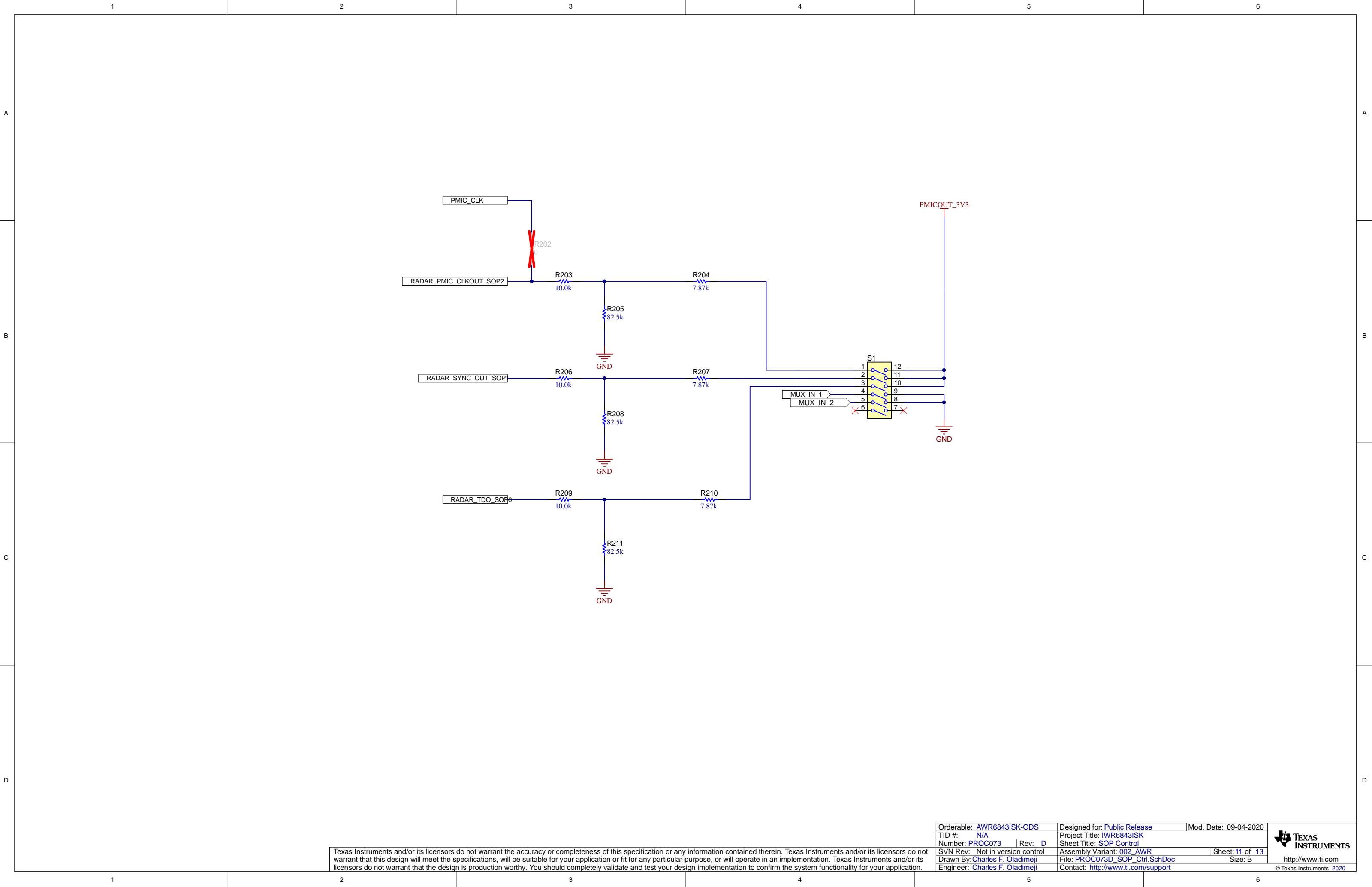
UART SELECTION



MUX IN CONFIG
S1.1 OFF : MAIN BOARD UART
S1.1 ON : BREAK AWAY UART

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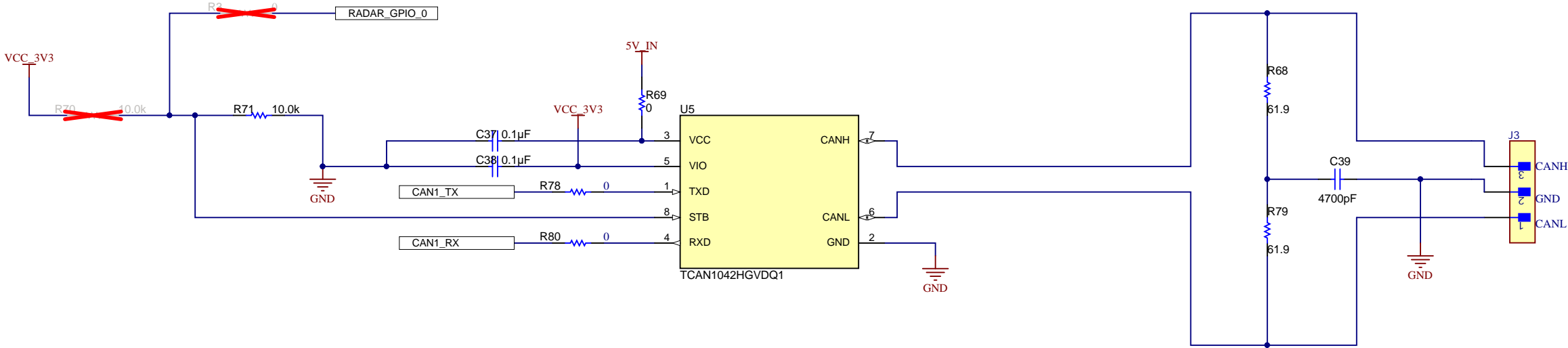
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TID #: N/A	Project Title: IWR6843ISK	
Number: PROC073	Rev: D	Sheet Title: Flash USB to UART
SVN Rev: Not in version control	Assembly Variant: 002_AWR	Sheet: 9 of 13
Drawn By: Charles F. Oladimeji	File: PROC073D_Flash_USB_To_UART.SchDoc	Size: B
Engineer: Charles F. Oladimeji	Contact: http://www.ti.com/support	



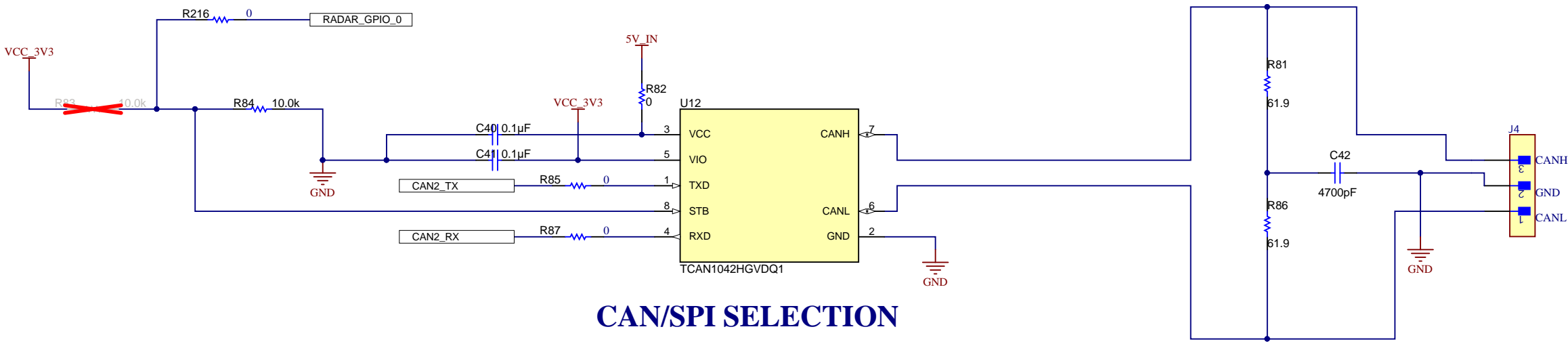
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TID #: N/A		Project Title: IWR6843ISK			
Number: PROC073		Rev: D		Sheet Title: SOP Control	
SVN Rev: Not in version control		Assembly Variant: 002_AWR		Sheet: 11 of 13	
Drawn By: Charles F. Oladimeji		File: PROC073D_SOP_Ctrl.SchDoc		Size: B	
Engineer: Charles F. Oladimeji		Contact: http://www.ti.com/support			

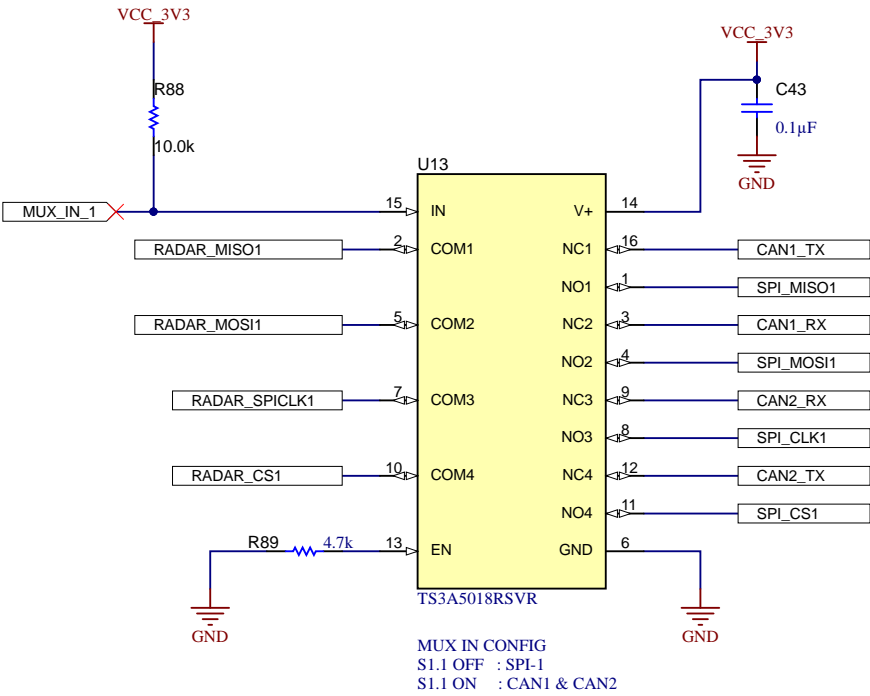
CAN_FD TRANSCEIVER



CAN_FD TRANSCEIVER



CAN/SPI SELECTION



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TID #: N/A	Project Title: IWR6843ISK	
Number: PROC073	Rev: D	Sheet Title: CAN Interface
SVN Rev: Not in version control	Assembly Variant: 002_AWR	Sheet: 12 of 13
Drawn By: Charles F. Oladimeji	File: PROC073D_Can_Interface.SchDoc	Size: B
Engineer: Charles F. Oladimeji	Contact: http://www.ti.com/support	

