

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

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9	Temp_Current_Sensor
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12	SOP Control
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Orderable: IWR6843LEVM

TID #: N/A

Number: PROC116

SVN Rev: 108

Drawn By: Chethan Kumar Y.B

Engineer: Chethan Kumar Y.B

Designed for: Public Release

Project Title: IWR6843 LOW COST EVM

Sheet Title: TABLE OF CONTENTS

Assembly Variant: 001_IWR

File: PROC116A_Table_Of_Contents.SchDoc

Contact: http://www.ti.com/support

Mod. Date: 05-10-2021

Sheet: 2 of 14

Size: B

 TEXAS
INSTRUMENTS

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1

2

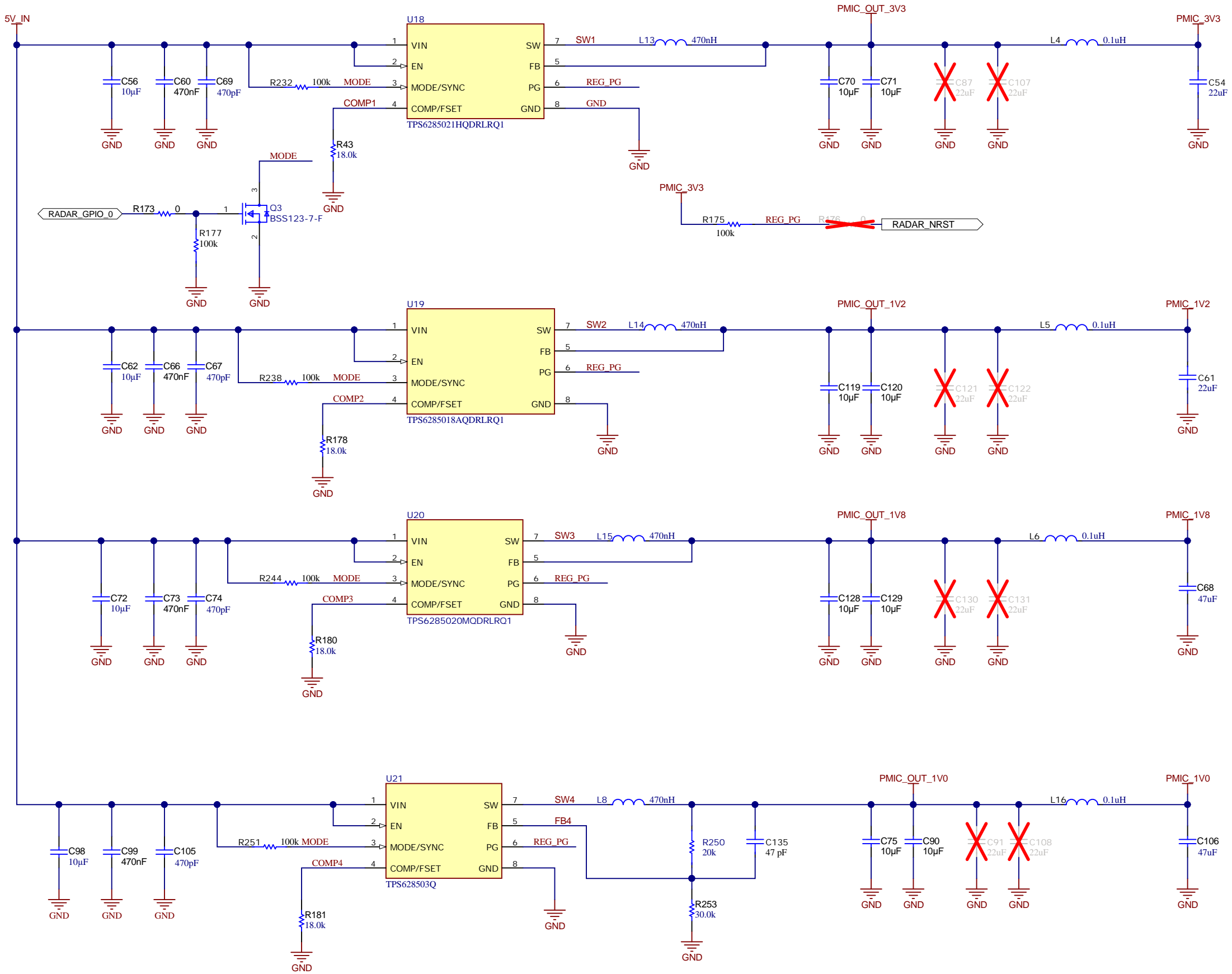
3

4

5

6

DC-DC 3.3V, 1.2V, 1.8V & 1.0V OUTPUTS



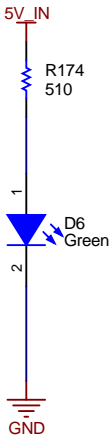
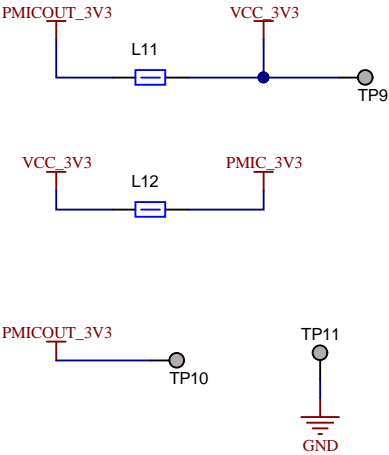
CAD NOTE :Place all input & output decaps close to Regulator Pins- U[18:21]

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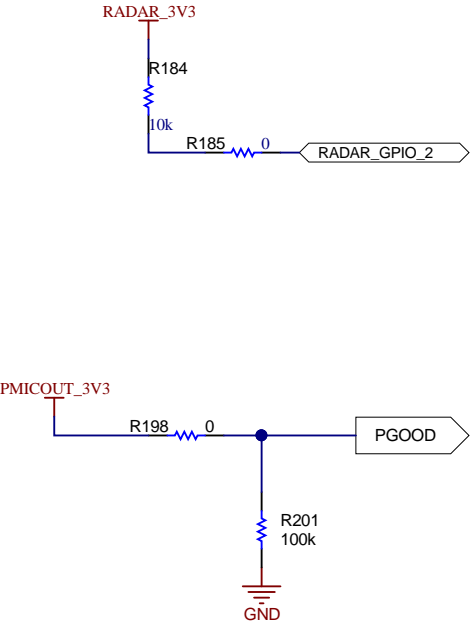
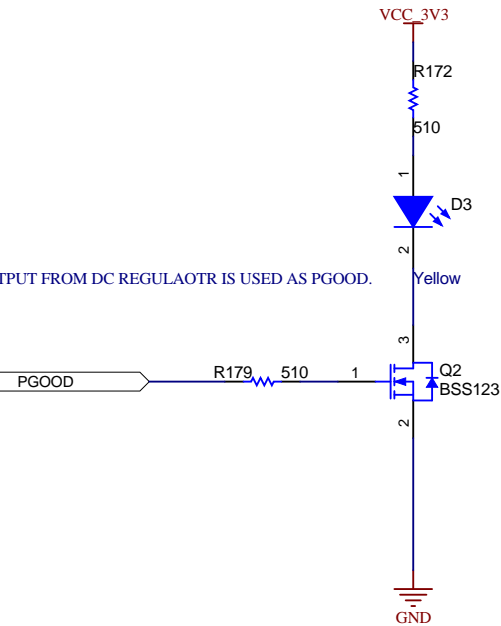
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TID #: N/A	Project Title: IWR6843 LOW COST EVM	
Number: PROC116	Rev: A	Sheet Title: DC_Regulators
SVN Rev: 108	Assembly Variant: 001_IWR	Sheet: 3 of 14
Drawn By: Chethan Kumar Y.B	File: PROC116A_DC_Regulators.SchDoc	Size: B
Engineer: Chethan Kumar Y.B	Contact: http://www.ti.com/support	

5V PWR,PGOOD LED ,Current sensors

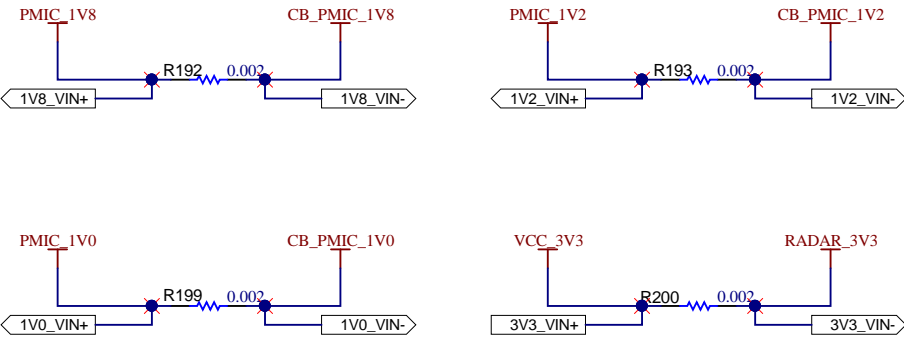
5V LED INDICATION



THE 3V3 OUTPUT FROM DC REGULAOTR IS USED AS PGOOD.



Current Sense Resistors



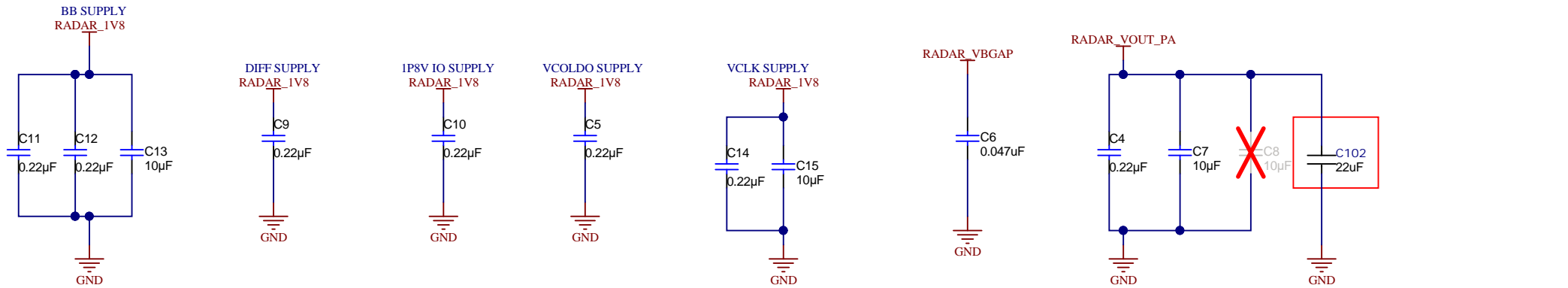
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Orderable: IWR6843LEVM	Designed for: Public Release	Mod. Date: 05-10-2021
TID #: N/A	Project Title: IWR6843 LOW COST EVM	
Number: PROC116	Rev: A	Sheet Title: 5V_PGOOD_LED
SVN Rev: 108	Assembly Variant: 001_IWR	Sheet: 4 of 14
Drawn By: Chethan Kumar Y.B	File: PROC116A_5V_PGOOD_LED.SchDoc	Size: B
Engineer: Chethan Kumar Y.B	Contact: http://www.ti.com/support	

SUPPLY_DECOUPLING_CAPS

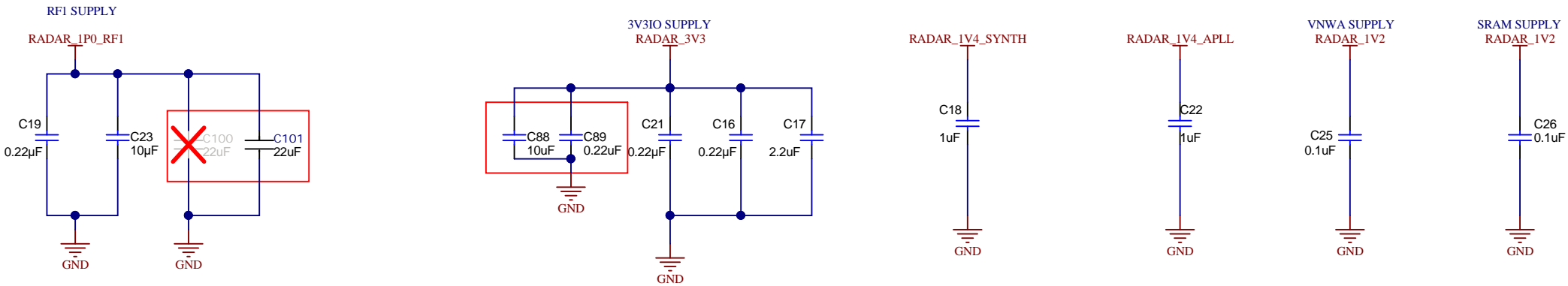
DCDC LC filters

A



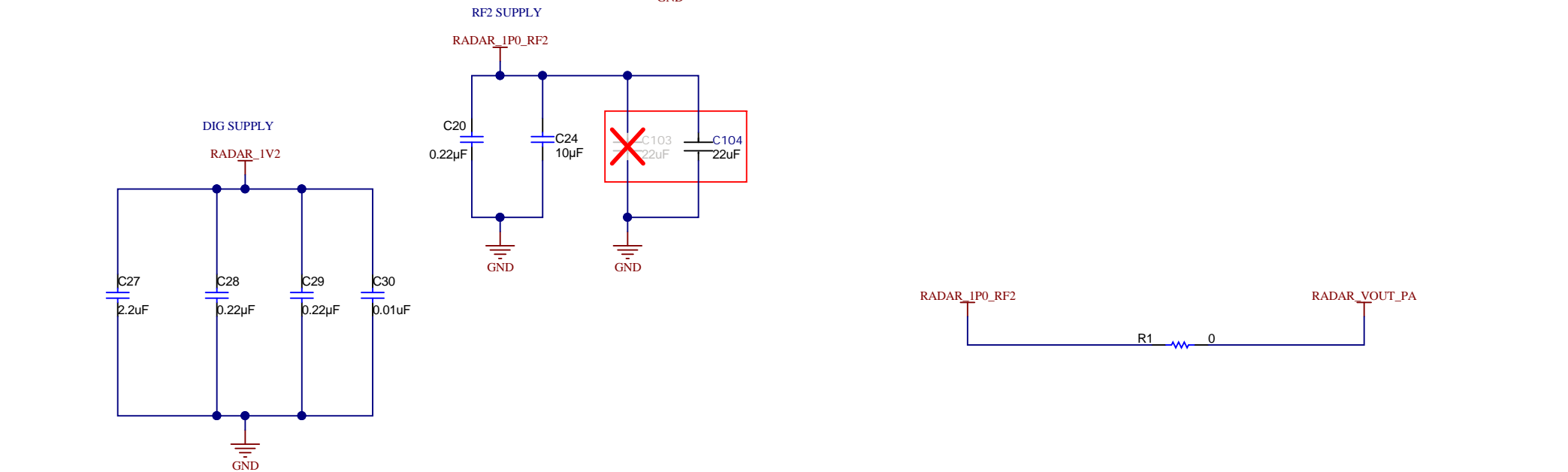
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B

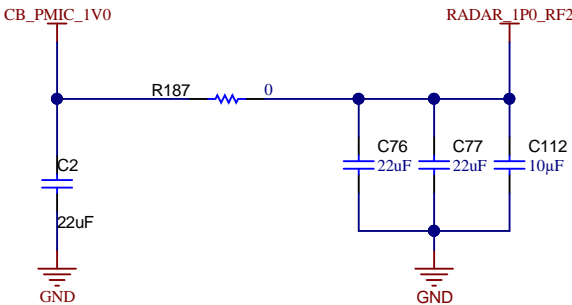
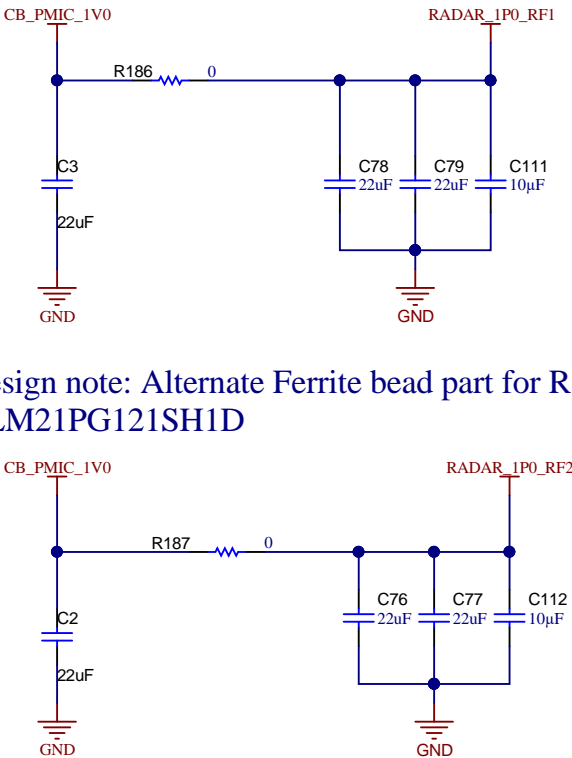
C



C

D

Design note: Alternate Ferrite bead part for R186,R187
BLM21PG121SH1D

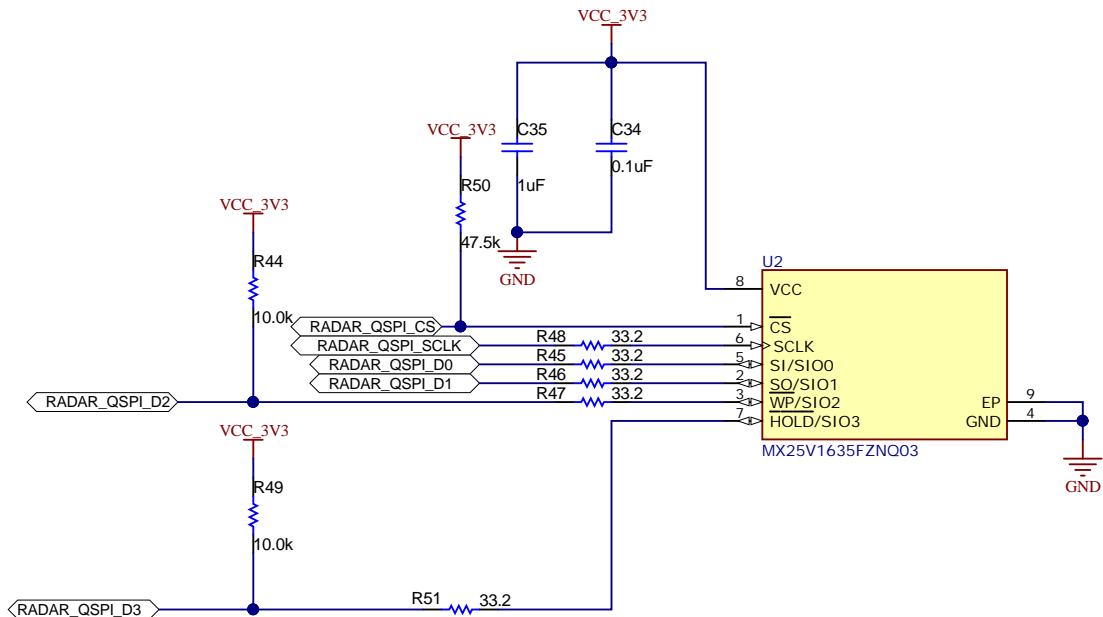


D

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Orderable: IWR6843LEVM	Designed for: Public Release	Mod. Date: 05-10-2021
TID #: N/A	Project Title: IWR6843 LOW COST EVM	
Number: PROC116	Rev: A	Sheet Title: Decoupling Caps
SVN Rev: 108	Assembly Variant: 001_IWR	Sheet: 6 of 14
Drawn By: Chethan Kumar Y.B	File: PROC116A_Decoupling_caps.SchDoc	Size: B
Engineer: Chethan Kumar Y.B	Contact: http://www.ti.com/support	

QSPI FLASH

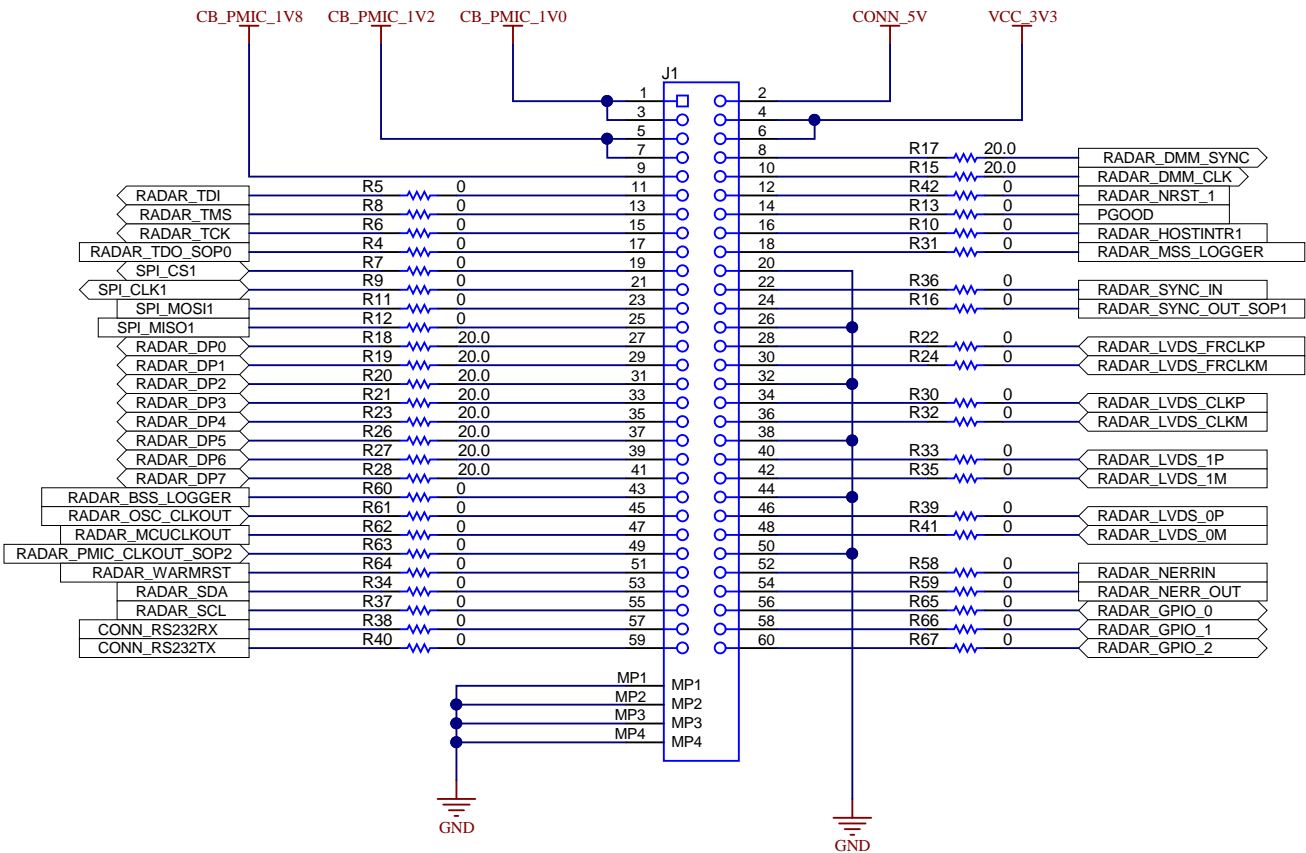


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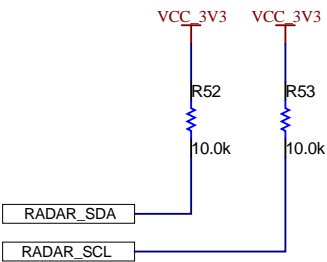
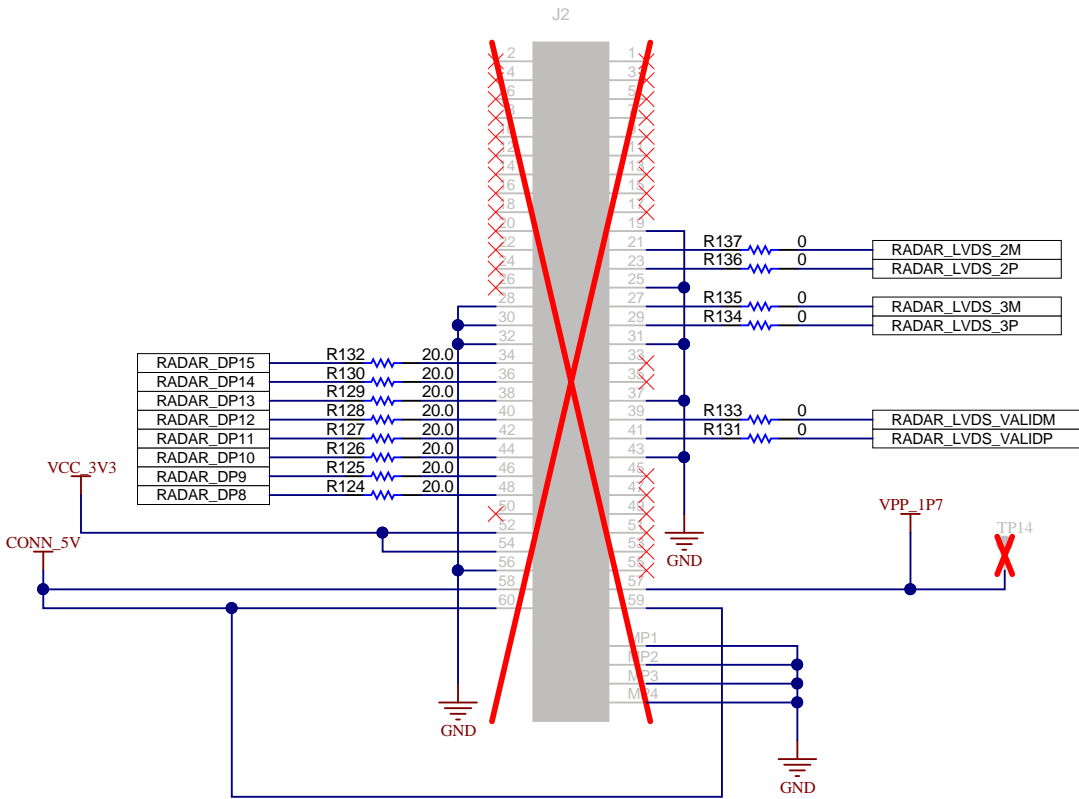
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TID #: N/A		Project Title: IWR6843 LOW COST EVM			
Number: PROC116		Rev: A		Sheet Title: QSPI Flash	
SVN Rev: 116		Assembly Variant: 001_IWR		Sheet: 7 of 14	
Drawn By: Chethan Kumar Y.B		File: PROC116A_QSPI_Flash_section.SchDoc		Size: B	
Engineer: Chethan Kumar Y.B		Contact: http://www.ti.com/support			

CONNECTORS

60 PIN HD CONNECTOR



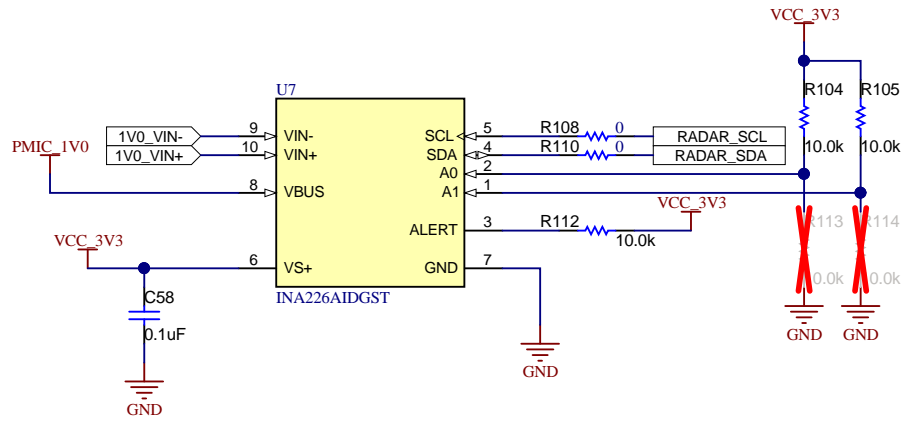
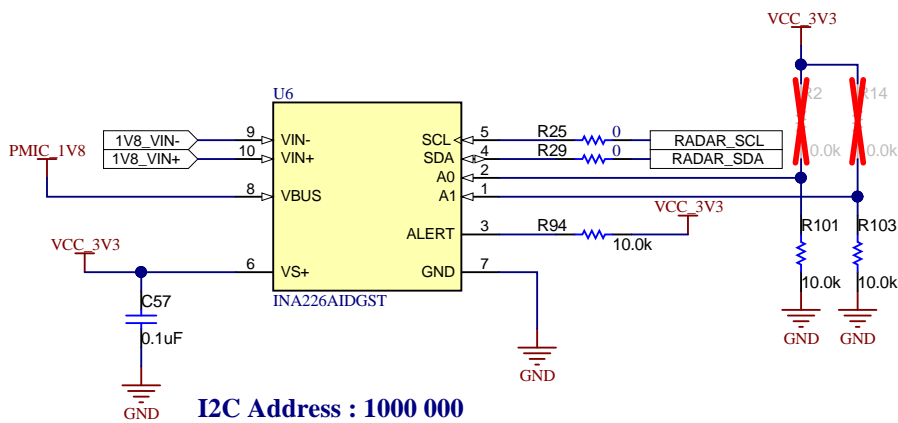
60 PIN HD CONNECTOR FOR xWRxxxx DEVICES COMPATABILITY



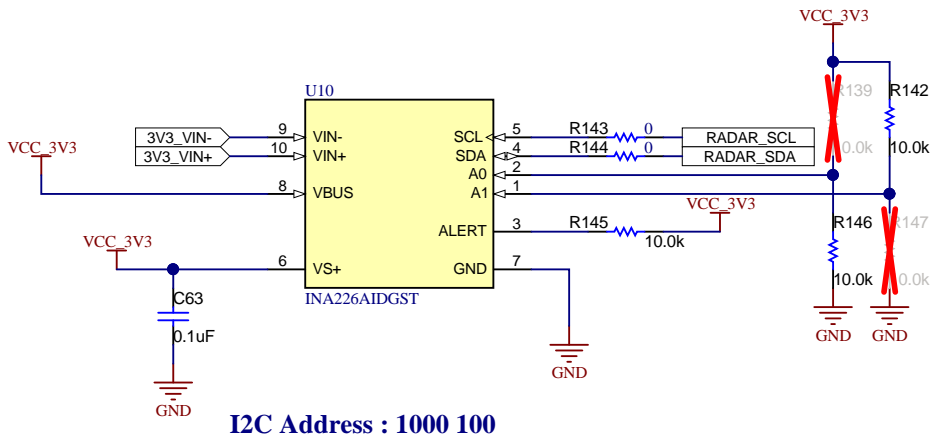
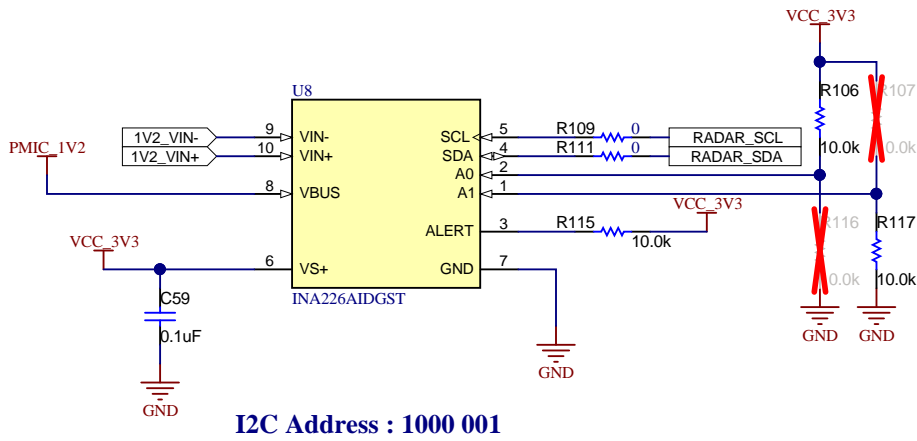
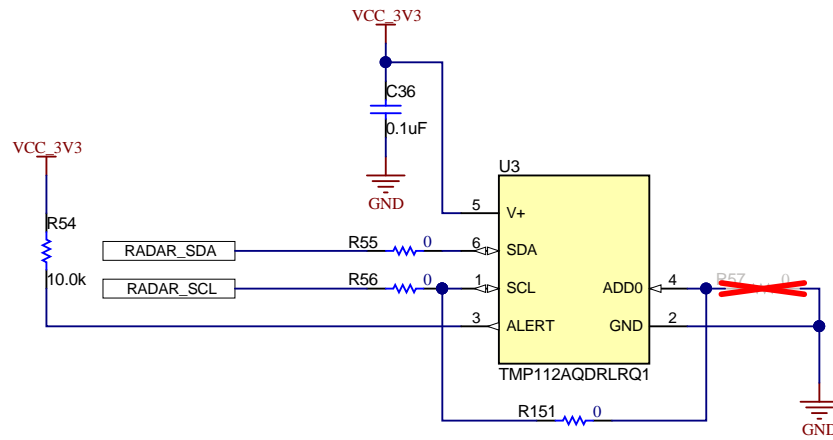
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Orderable: IWR6843LEV	Designed for: Public Release	Mod. Date: 05-10-2021
TID #: N/A	Project Title: IWR6843 LOW COST EVM	
Number: PROC116	Rev: A	Sheet Title: HD Connector
SVN Rev: 108	Assembly Variant: 001_IWR	Sheet: 8 of 14
Drawn By: Chethan Kumar Y.B	File: PROC116A_HD_Connector_60Pin.SchDoc	Size: B
Engineer: Chethan Kumar Y.B	Contact: http://www.ti.com/support	

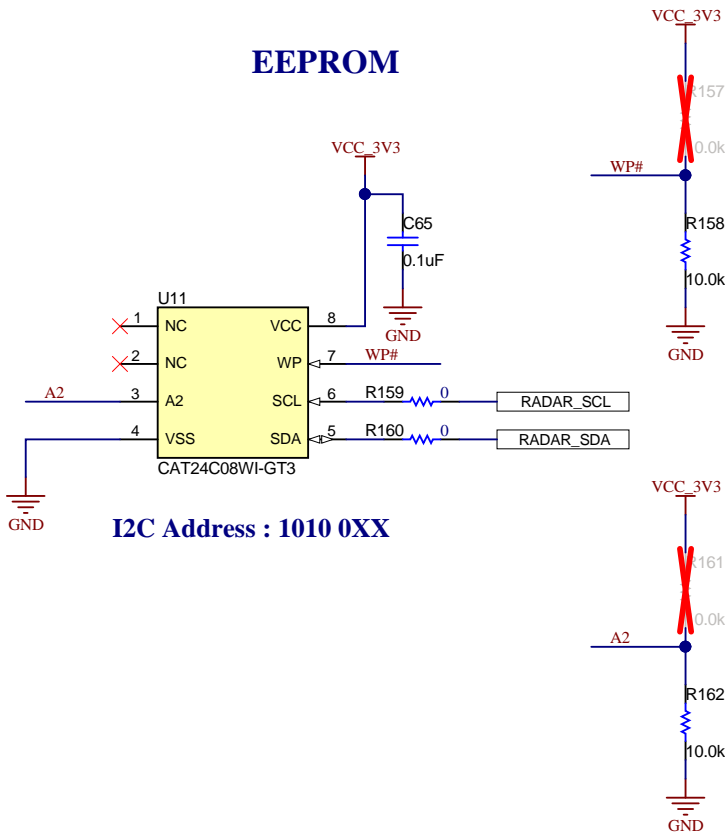
CURRENT SENSOR



TEMPERATURE SENSOR



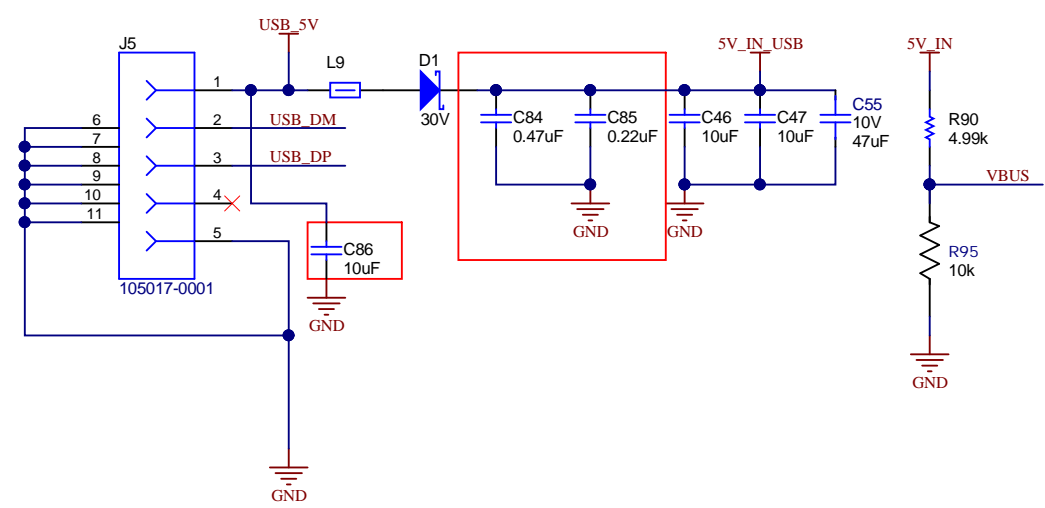
EEPROM



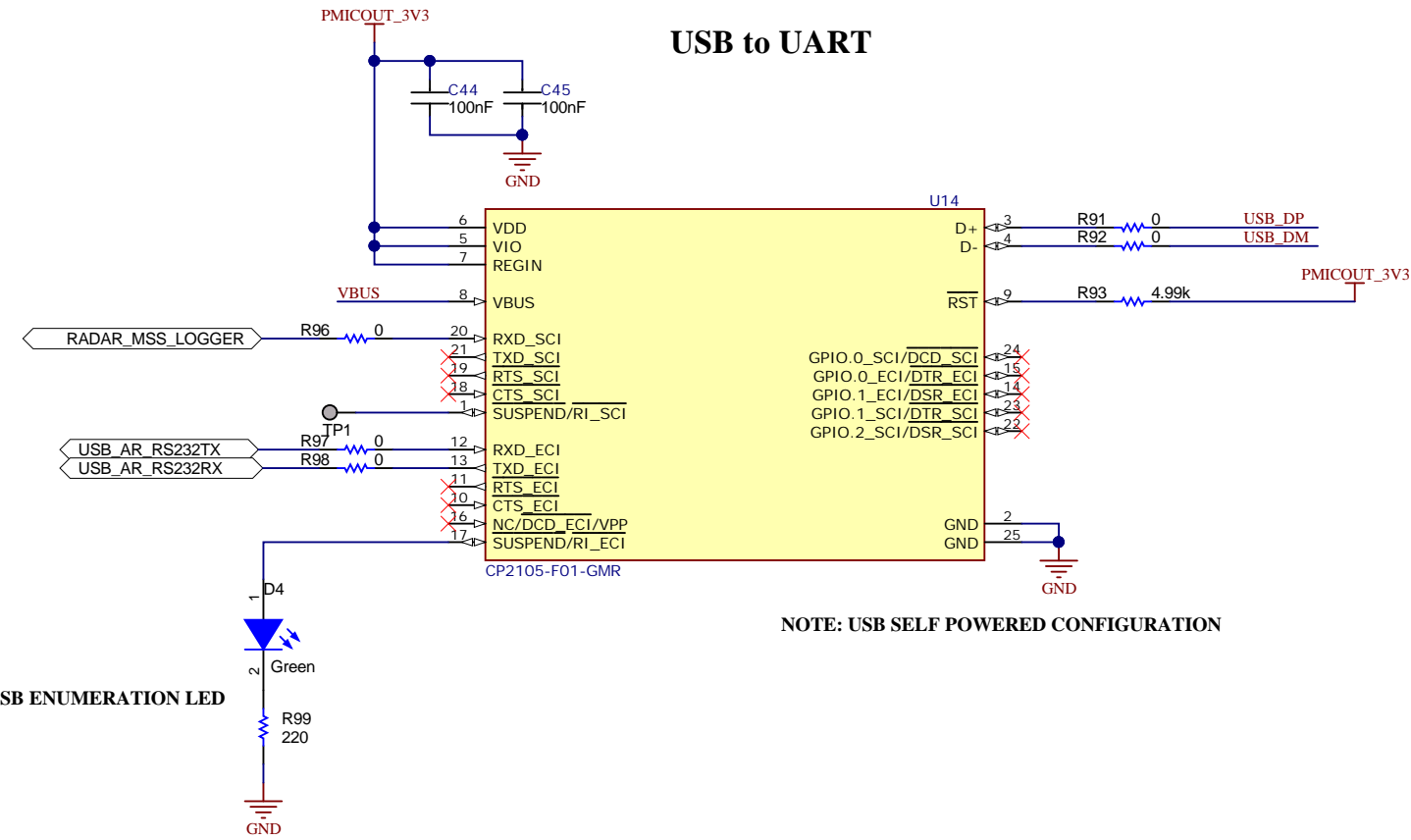
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Orderable: IWR6843LEVM	Designed for: Public Release	Mod. Date: 05-10-2021
TID #: N/A	Project Title: IWR6843 LOW COST EVM	
Number: PROC116	Rev: A	Sheet Title: Temp Current sensor
SVN Rev: 108	Assembly Variant: 001_IWR	Sheet: 9 of 14
Drawn By: Chethan Kumar Y.B	File: PROC116A_Temp_Current_sensor.SchDoc	Size: B
Engineer: Chethan Kumar Y.B	Contact: http://www.ti.com/support	

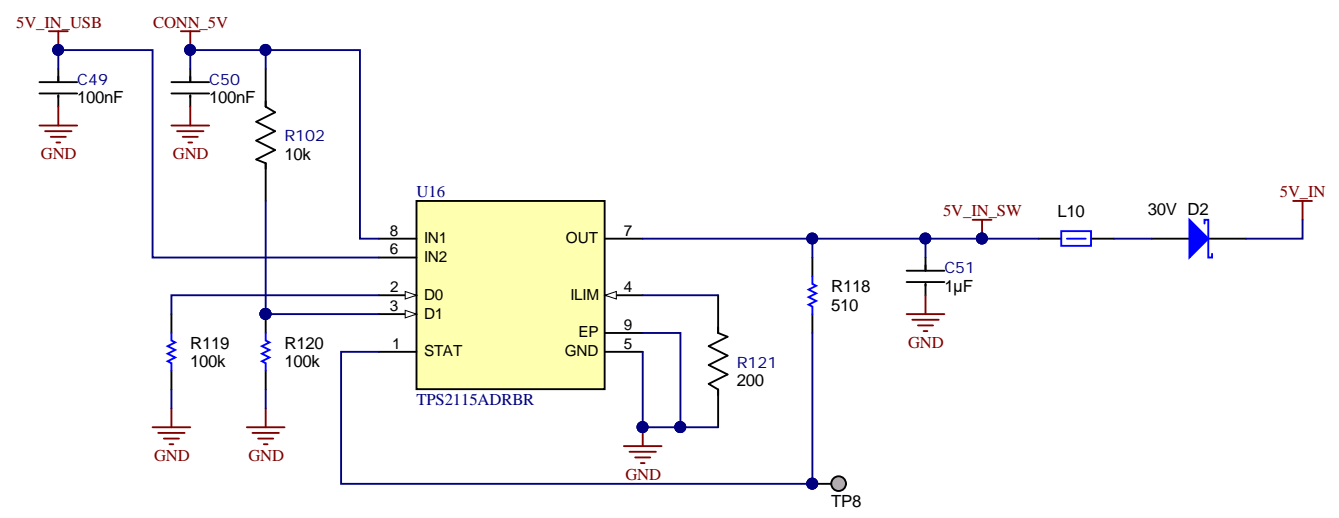
USB CONNECTOR



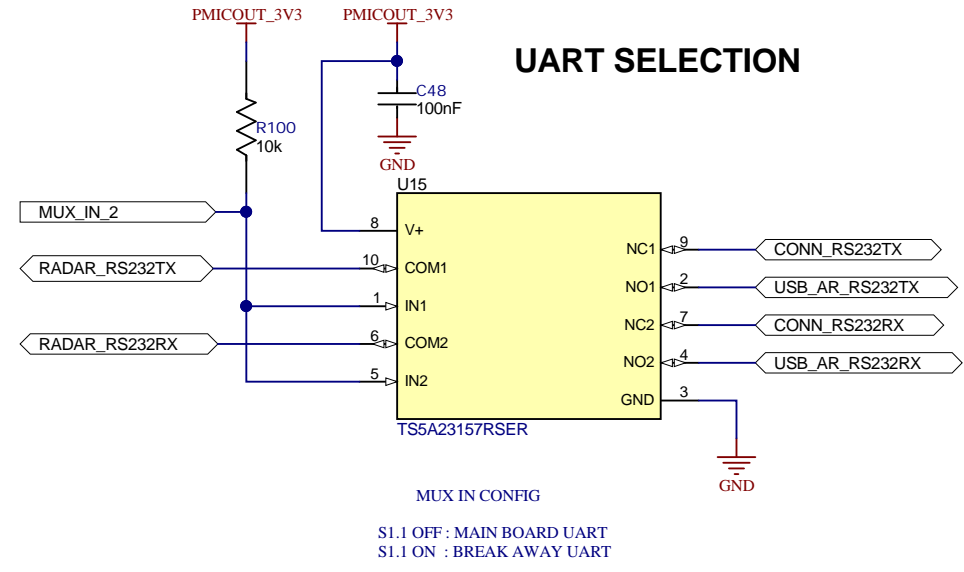
USB to UART



CONNECTOR PWR / USB PWR LOAD SWITCH

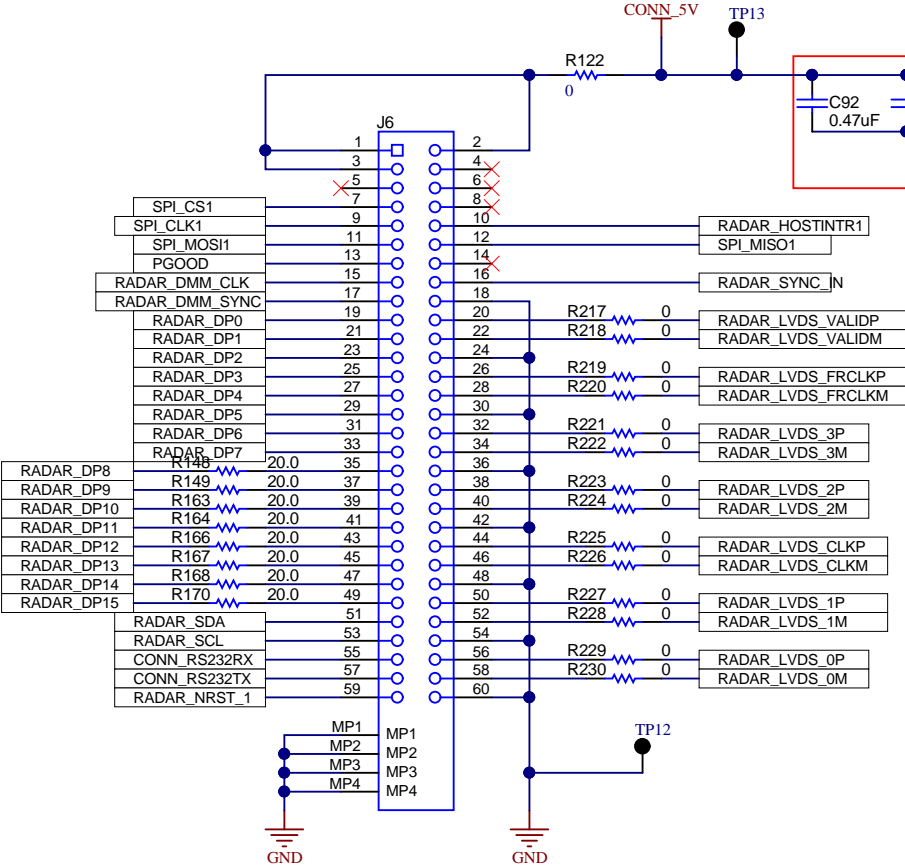


UART SELECTION

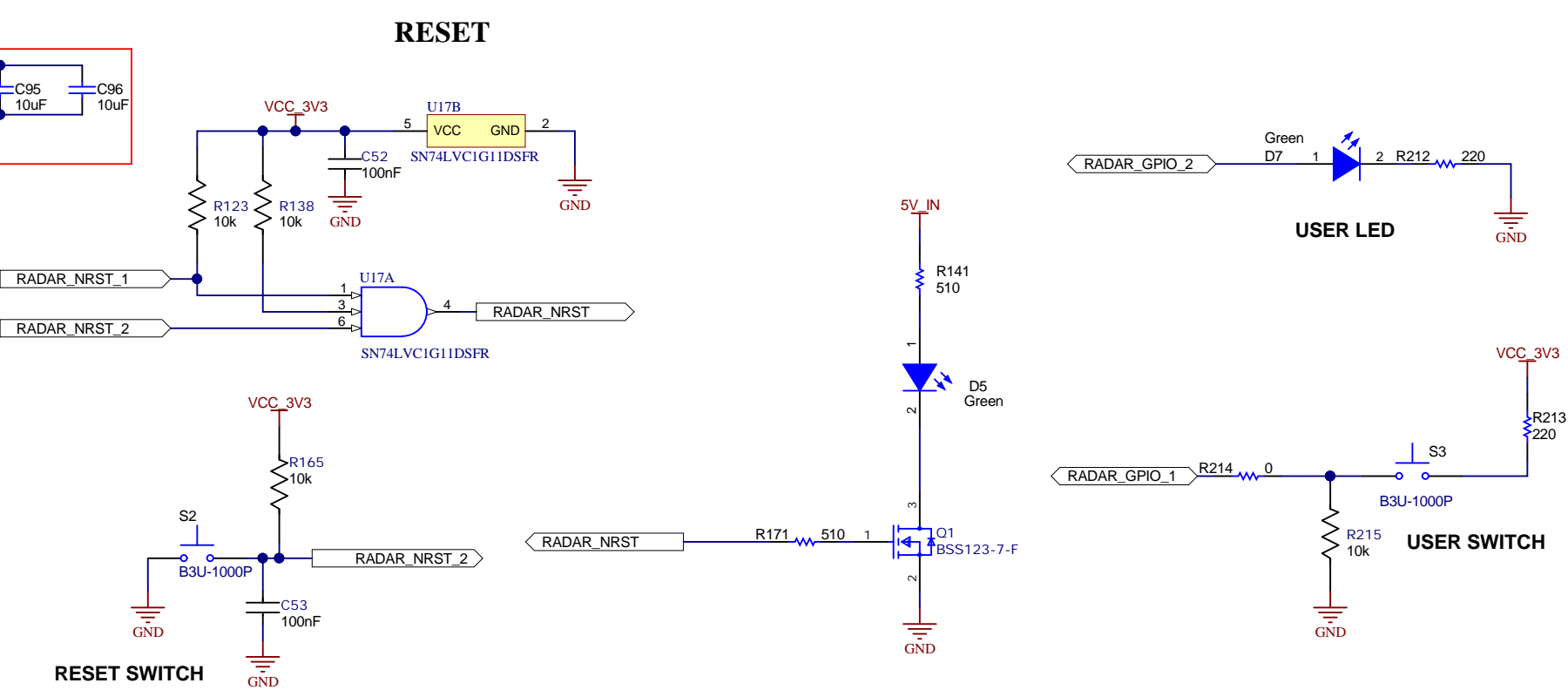


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60PIN HD CONNECTOR FOR DCA1000

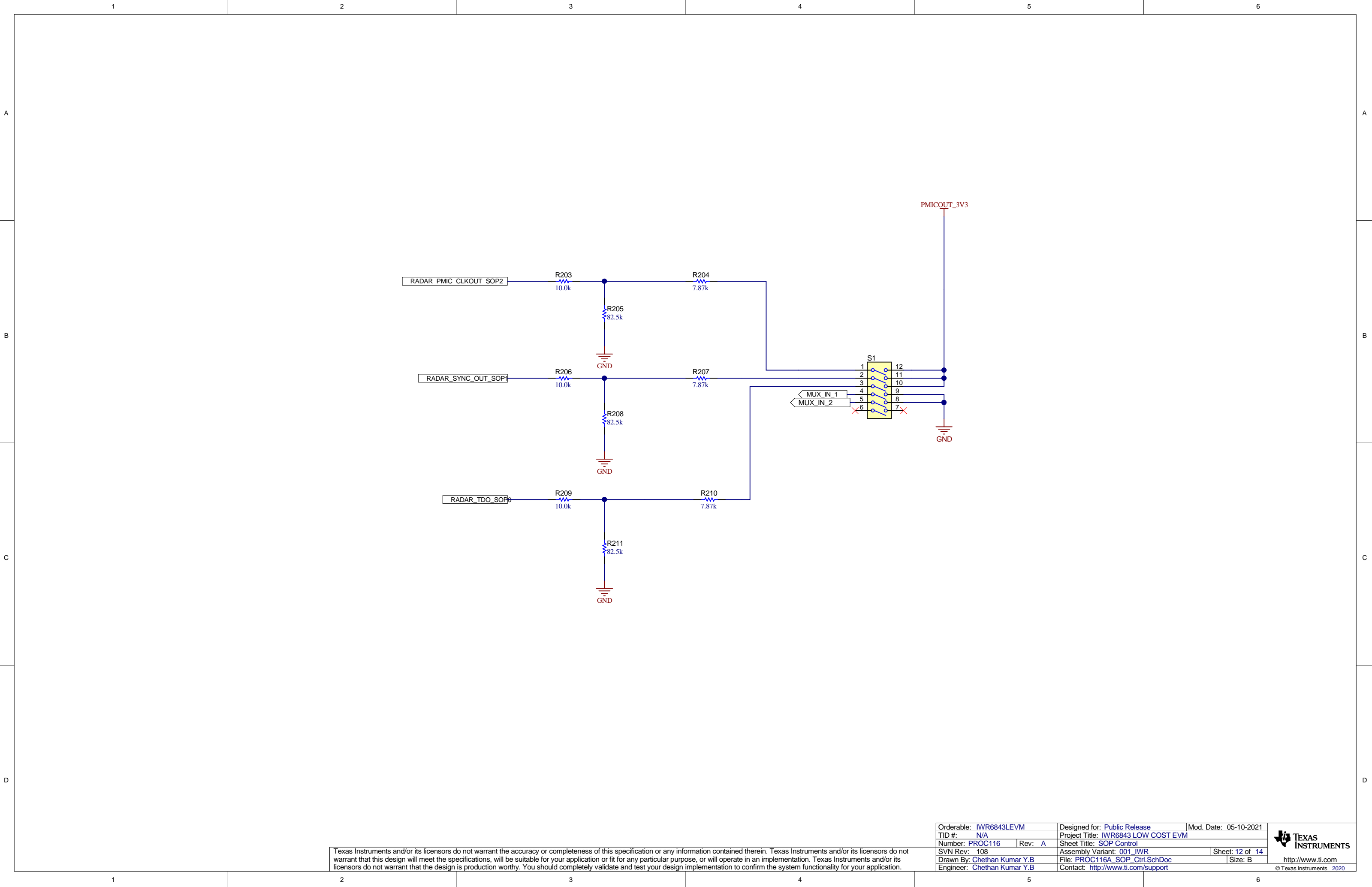


RESET, USER LED and SWITCHES



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Orderable: IWR6843LEVM	Designed for: Public Release	Mod. Date: 05-10-2021
TID #: N/A	Project Title: IWR6843 LOW COST EVM	
Number: PROC116	Rev: A	Sheet Title: HD DCA Connector
SVN Rev: 108	Assembly Variant: 001_IWR	Sheet: 11 of 14
Drawn By: Chethan Kumar Y.B	File: PROC116A_HD_DCA_Conn.SchDoc	Size: B
Engineer: Chethan Kumar Y.B	Contact: http://www.ti.com/support	



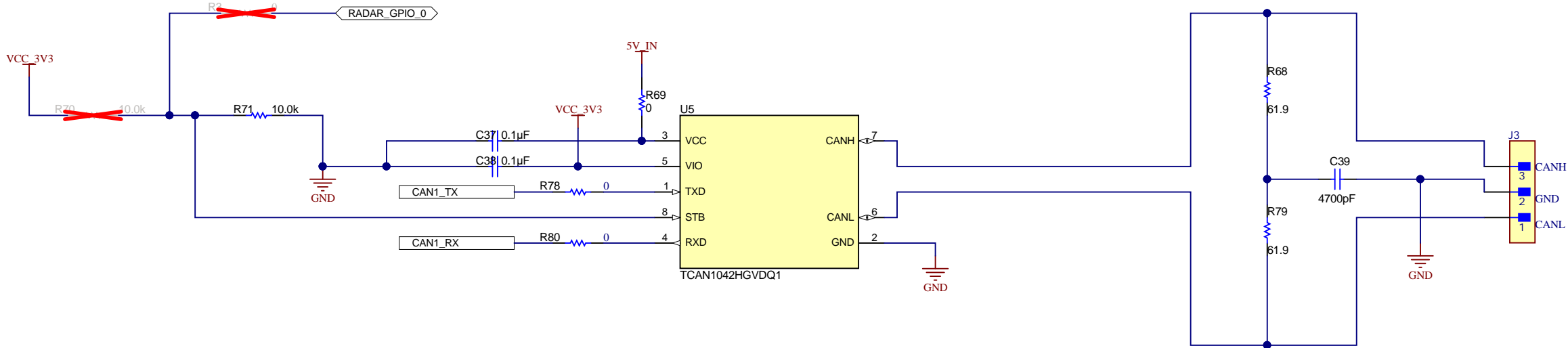
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TID #: N/A		Project Title: IWR6843 LOW COST EVM			
Number: PROC116		Rev: A		Sheet Title: SOP Control	
SVN Rev: 108		Assembly Variant: 001_IWR		Sheet: 12 of 14	
Drawn By: Chethan Kumar Y.B		File: PROC116A_SOP_Ctrl.SchDoc		Size: B	
Engineer: Chethan Kumar Y.B		Contact: http://www.ti.com/support			

A

A

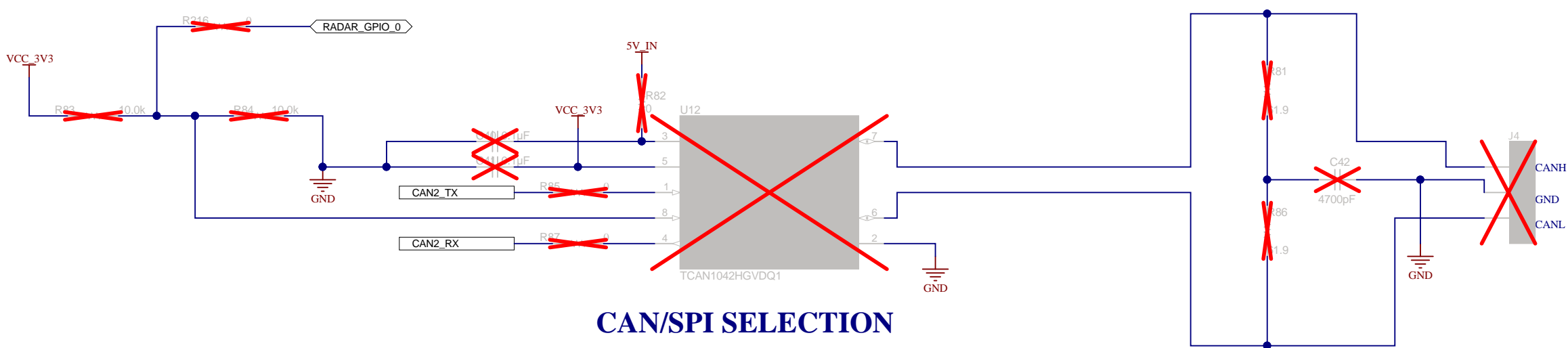
CAN_FD TRANSCEIVER



B

B

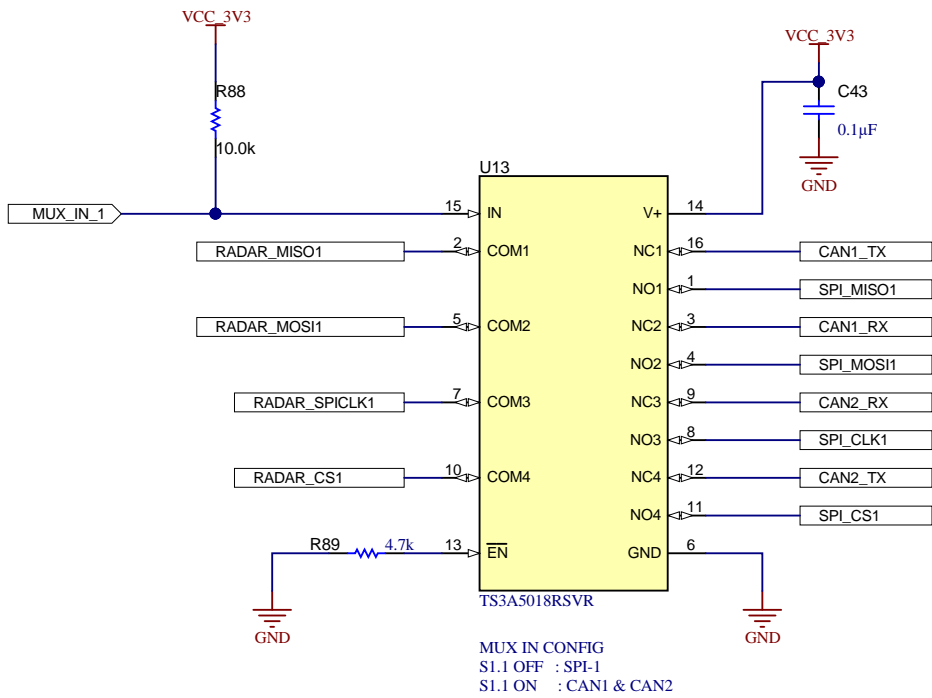
CAN_FD TRANSCEIVER



C

C

CAN/SPI SELECTION



D

D

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Orderable: IWR6843LEVM	Designed for: Public Release	Mod. Date: 05-10-2021
TID #: N/A	Project Title: IWR6843 LOW COST EVM	
Number: PROC116	Rev: A	Sheet Title: CAN Interface
SVN Rev: 108	Assembly Variant: 001_IWR	Sheet: 13 of 14
Drawn By: Chethan Kumar Y.B	File: PROC116A_Can_Interface.SchDoc	Size: B
Engineer: Chethan Kumar Y.B	Contact: http://www.ti.com/support	

