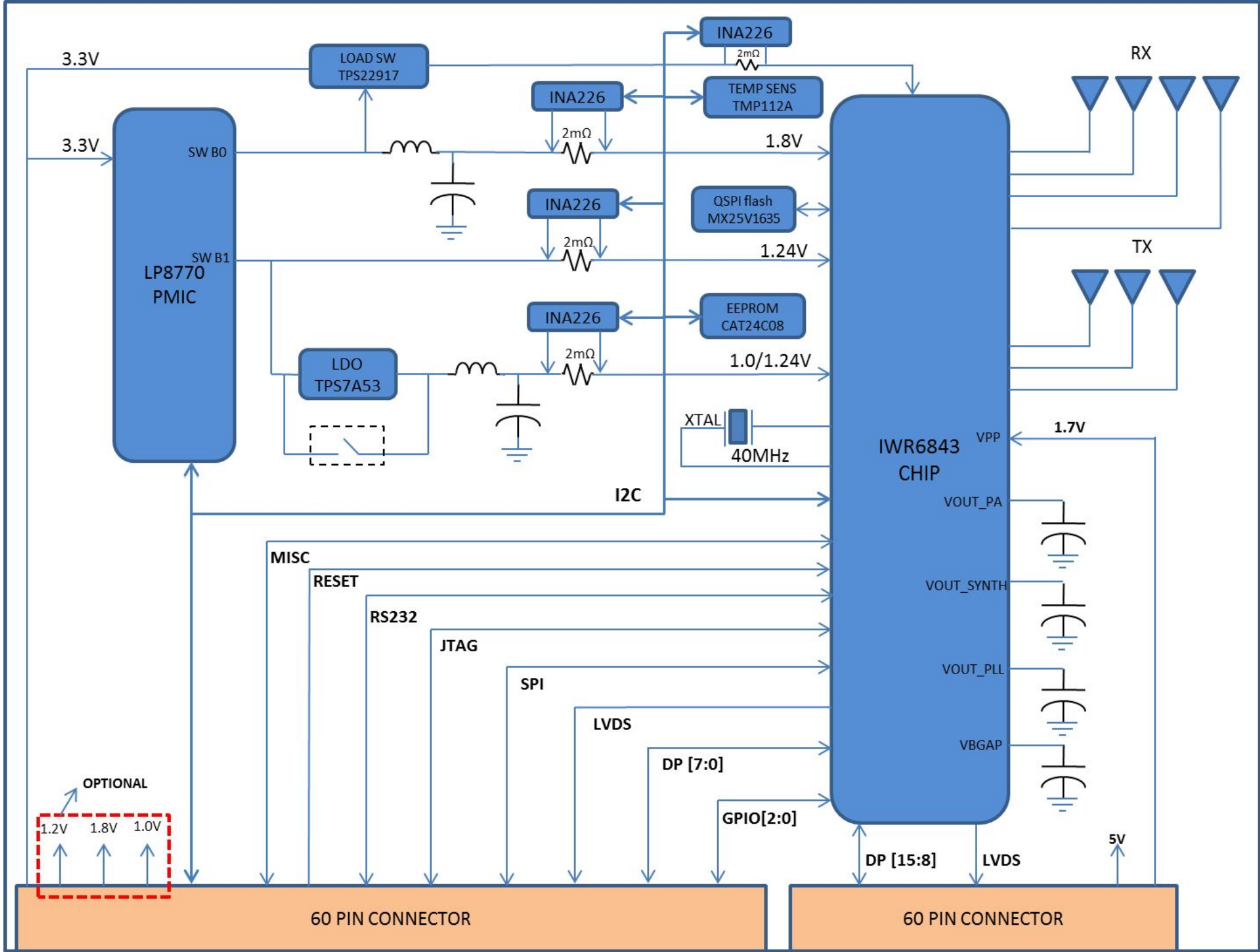


BLOCK DIAGRAM

Revision History

Rev	ECN #	Approved Date	Approved by	Notes
B	1	29/11/18	Chethan Kumar Y.B	J2 connector nets modified
B	2	29/11/18	Chethan Kumar Y.B	Moved R164 from R163.1 to R163.2



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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Orderable: IWR6843ISK	Designed for: Public Release	Mod. Date: 11/29/2018
TID #: N/A	Project Title: IWR6843ISK(Industrial Starter Kit)	
Number: PROC073	Rev: B	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 1 of 9
Drawn By:	File: PROC073B_Block_Diagram.SchDoc	Size: B
Engineer: Chethan Kumar Y.B	Contact: http://www.ti.com/support	

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

TABLE OF CONTENTS

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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	Hardware

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		TID #: N/A	Project Title: IWR6843ISK(Industrial Starter Kit)		
		Number: PROC073	Rev: B	Sheet Title:	
		SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 2 of 9	
		Drawn By:	File: PROC073B_Table_Of_Contents.SchDoc	Size: B	
		Engineer: Chethan Kumar Y.B	Contact: http://www.ti.com/support		

1	2	3	4	5	6
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PMIC (1.2V, 1.8V OUTPUTS)

1V24 TO 1V LDO

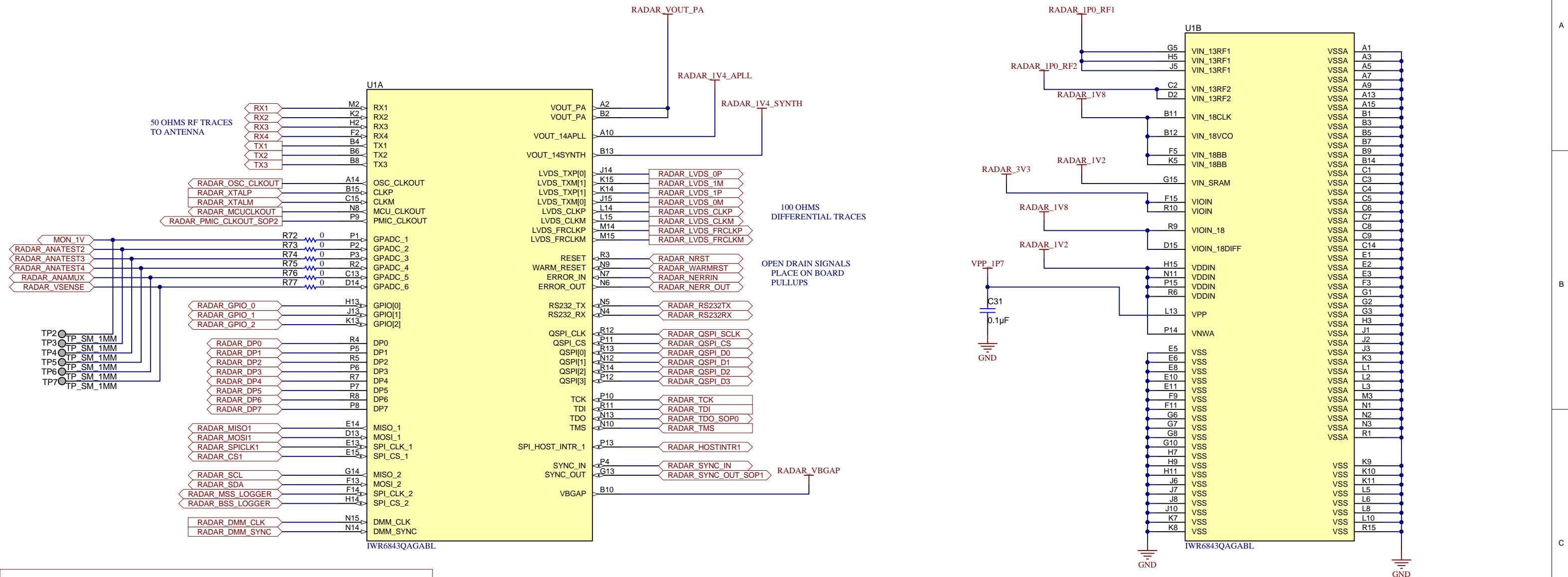
Load switch for delaying 3.3V to IWR6483 module

Current Sense Resistors

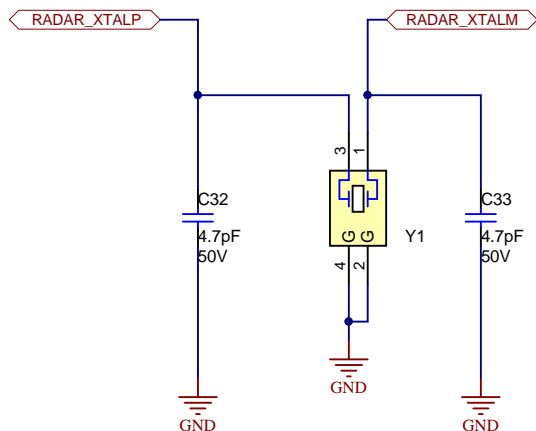
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SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 3 of 9	
Drawn By:	File: PROC073B_PMIC.SchDoc	Size: B	
Engineer: Chethan Kumar Y.B	Contact: http://www.ti.com/support		

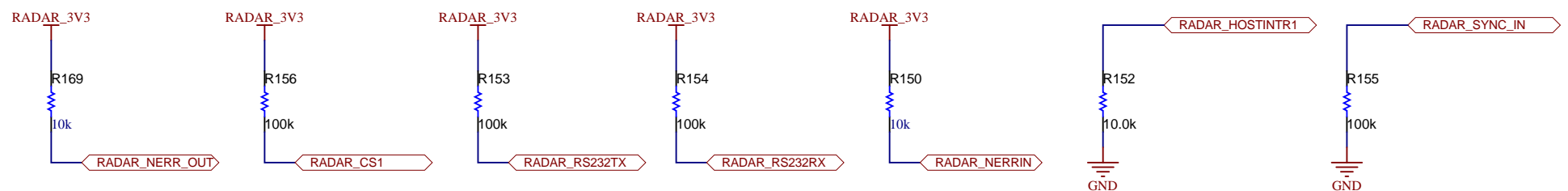
IWR6843 Chip



Crystal Oscillator 40MHz



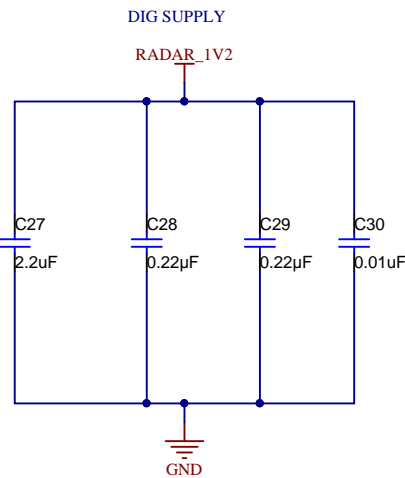
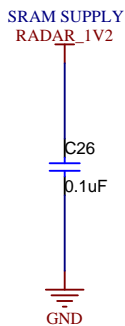
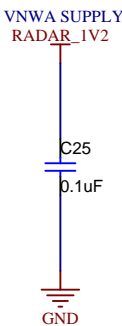
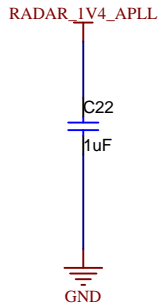
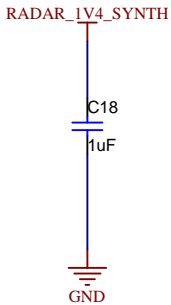
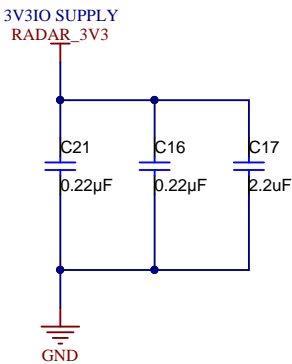
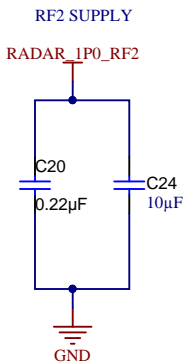
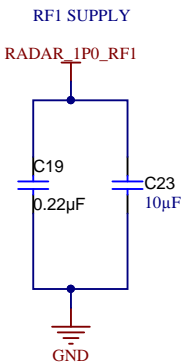
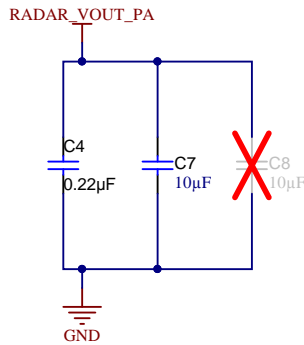
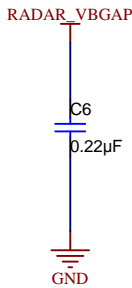
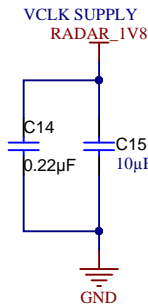
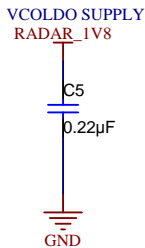
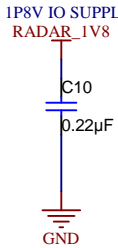
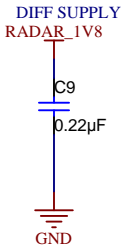
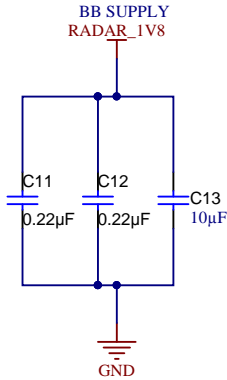
PULL UPs/DOWNs FOR SPI CS1, NERRIN, RS232, SYNC_IN & HOST_INTn



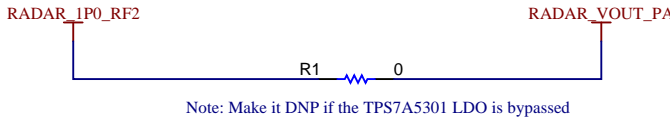
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TID #: N/A	Project Title: IWR6843ISK(Industrial Starter Kit)		
Number: PROC073	Rev: B		
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 4 of 9	
Drawn By:	File: PROC073B_IWR6843_Chip_SchDoc	Size: B	
Engineer: Chethan Kumar Y.B	Contact: http://www.ti.com/support		http://www.ti.com © Texas Instruments 2018

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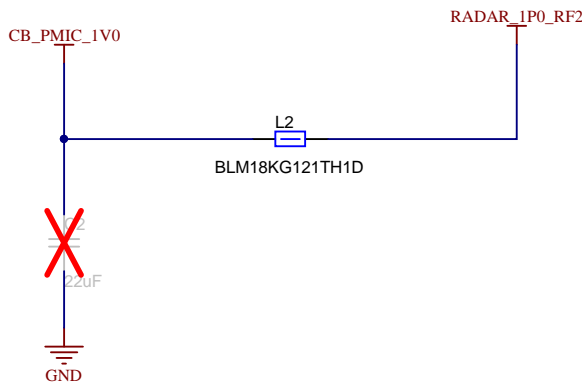
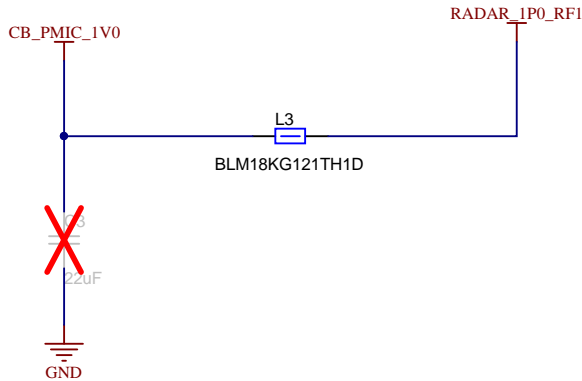
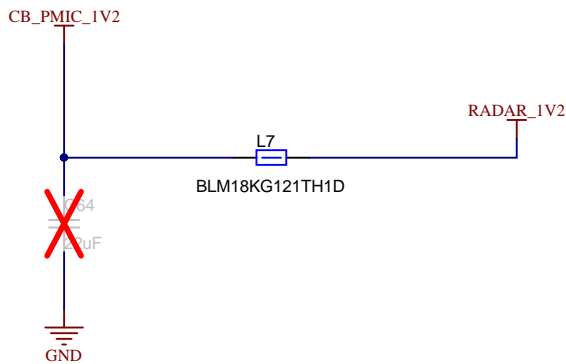
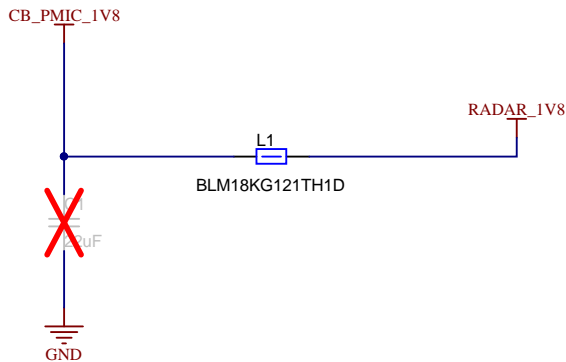
SUPPLY_DECOUPLING_CAPS



OPTIONS FOR INTERNAL DEBUG ONLY

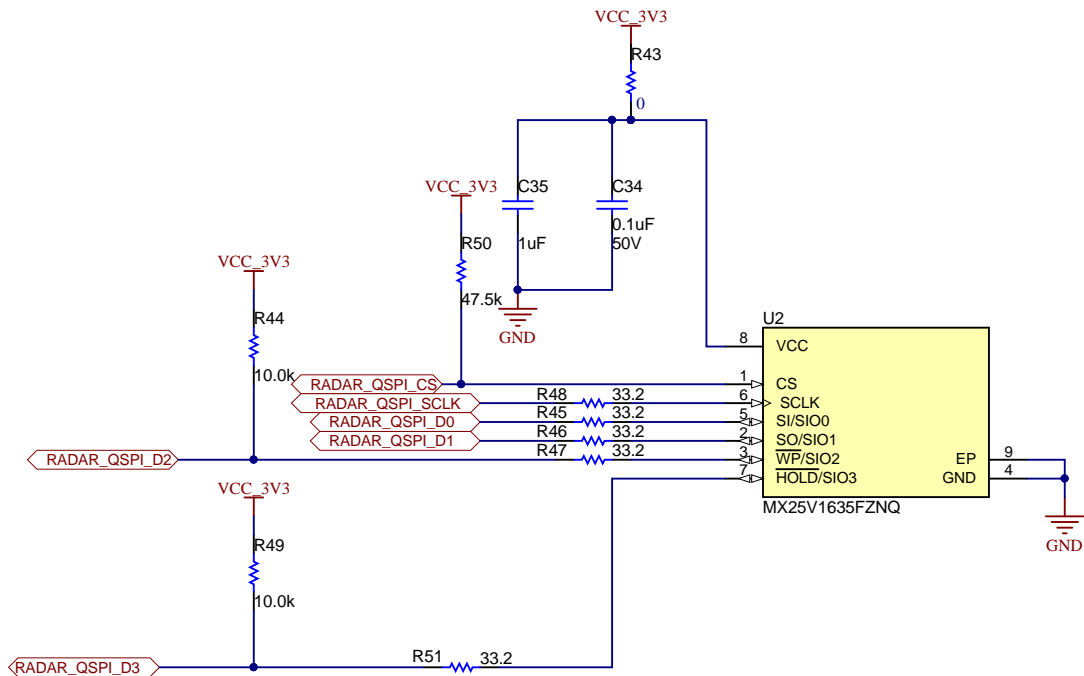


PMIC LC Filters



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QSPI FLASH

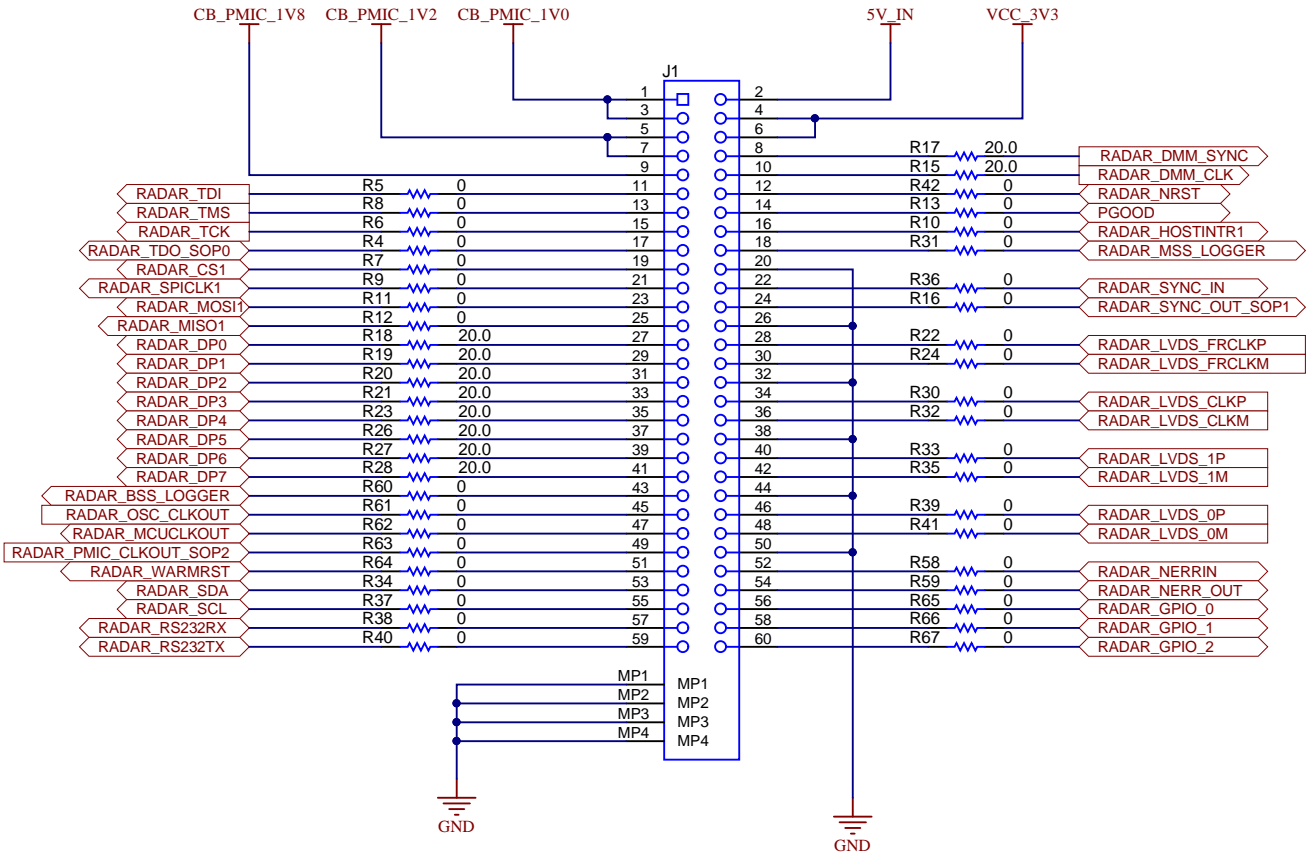


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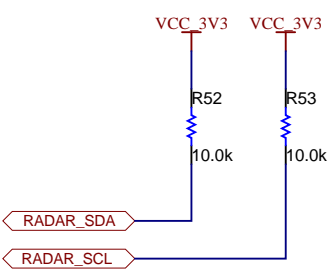
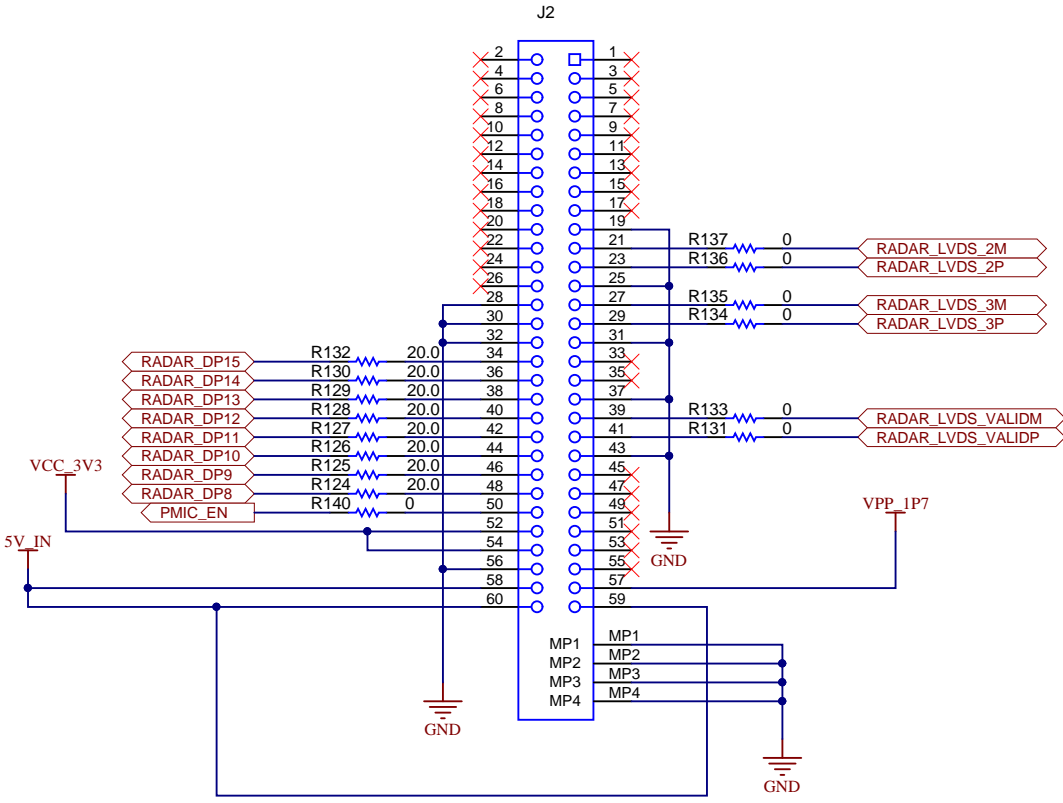
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TID #: N/A	Project Title: IWR6843ISK(Industrial Starter Kit)	
Number: PROC073	Rev: B	Sheet: 6 of 9
SVN Rev: Not in version control	Assembly Variant: 001	Size: B
Drawn By:	File: PROC073B_QSPI_Flash_section.SchDoc	
Engineer: Chethan Kumar Y.B	Contact: http://www.ti.com/support	

CONNECTORS

60 PIN HD CONNECTOR

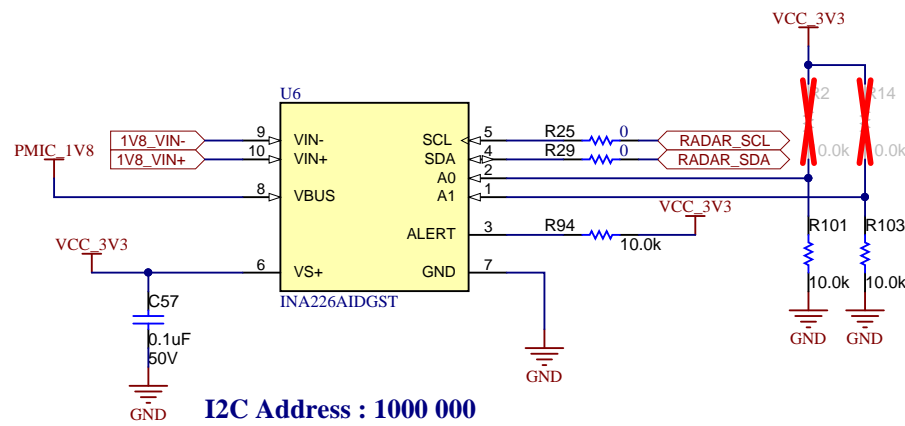


60 PIN HD CONNECTOR FOR xWRxxxx DEVICES COMPATABILITY

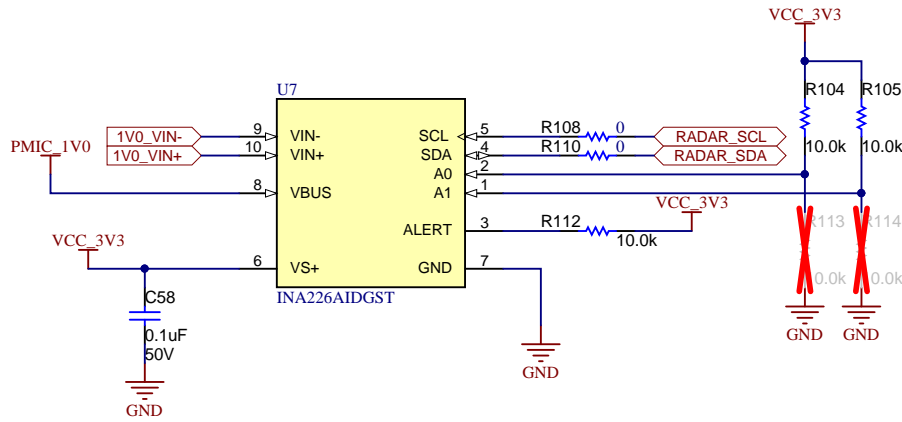


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SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 7 of 9
Drawn By:	File: PROC073B_HD_Connector_60Pin.SchDoc	Size: B
Engineer: Chethan Kumar Y.B	Contact: http://www.ti.com/support	

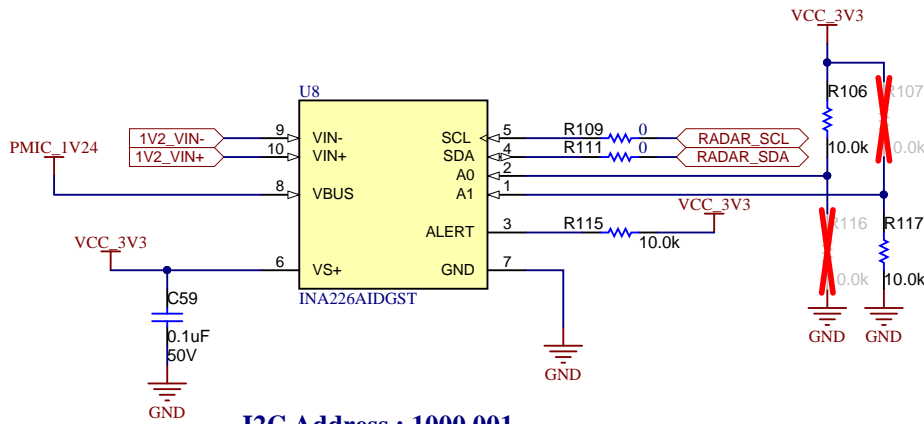
CURRENT SENSOR



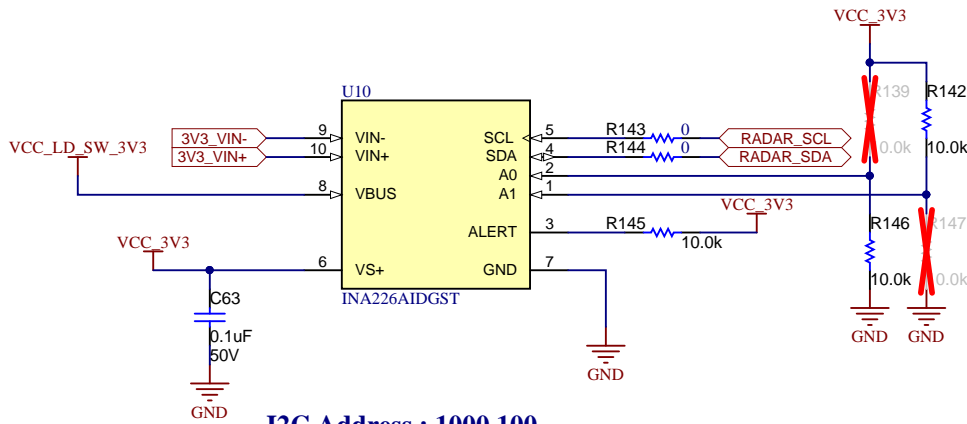
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I2C Address : 1000 101

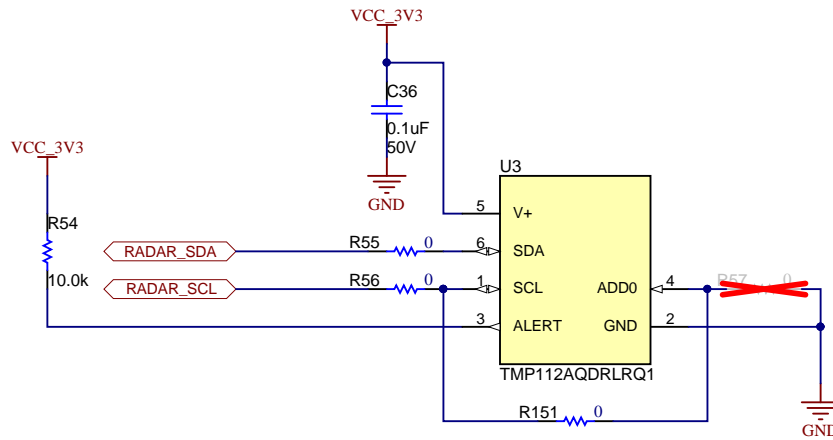


I2C Address : 1000 001



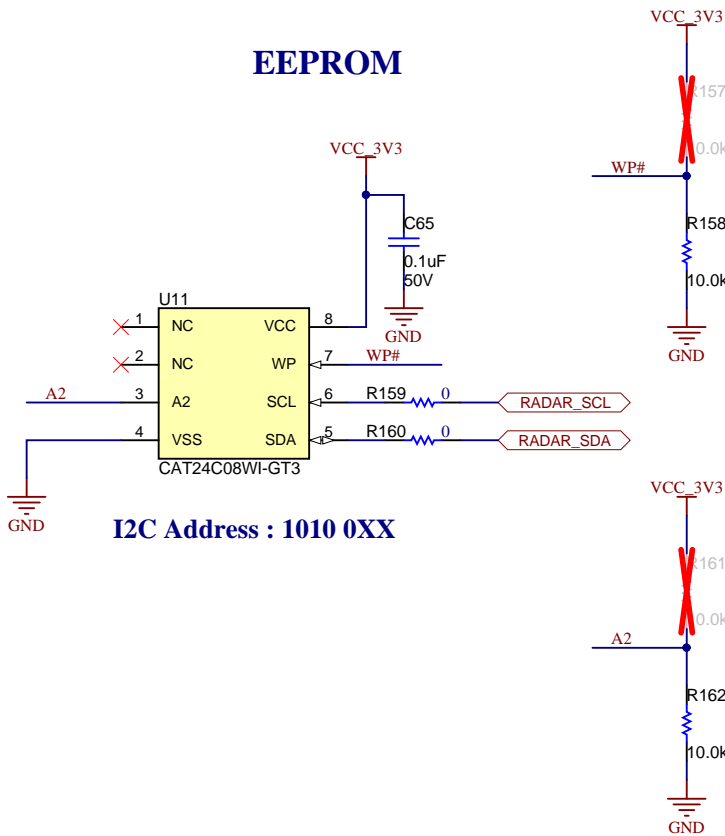
I2C Address : 1000 100

TEMPERATURE SENSOR



I2C Address : 1001 011

EEPROM



I2C Address : 1010 0XX



PCB Number: PROC073
PCB Rev: B

PCB
LOGO
Texas Instruments



PCB
LOGO
FCC disclaimer

PCB
LOGO
WEEE logo

PCB
LOGO
Texas Instruments

Variant/Label Table	
Variant	Label Text
001	IWR6843ISK

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

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.

HW Assembly Instructions
1.Mount the nuts,screws and washers to mate with MMWAVEICBOOST