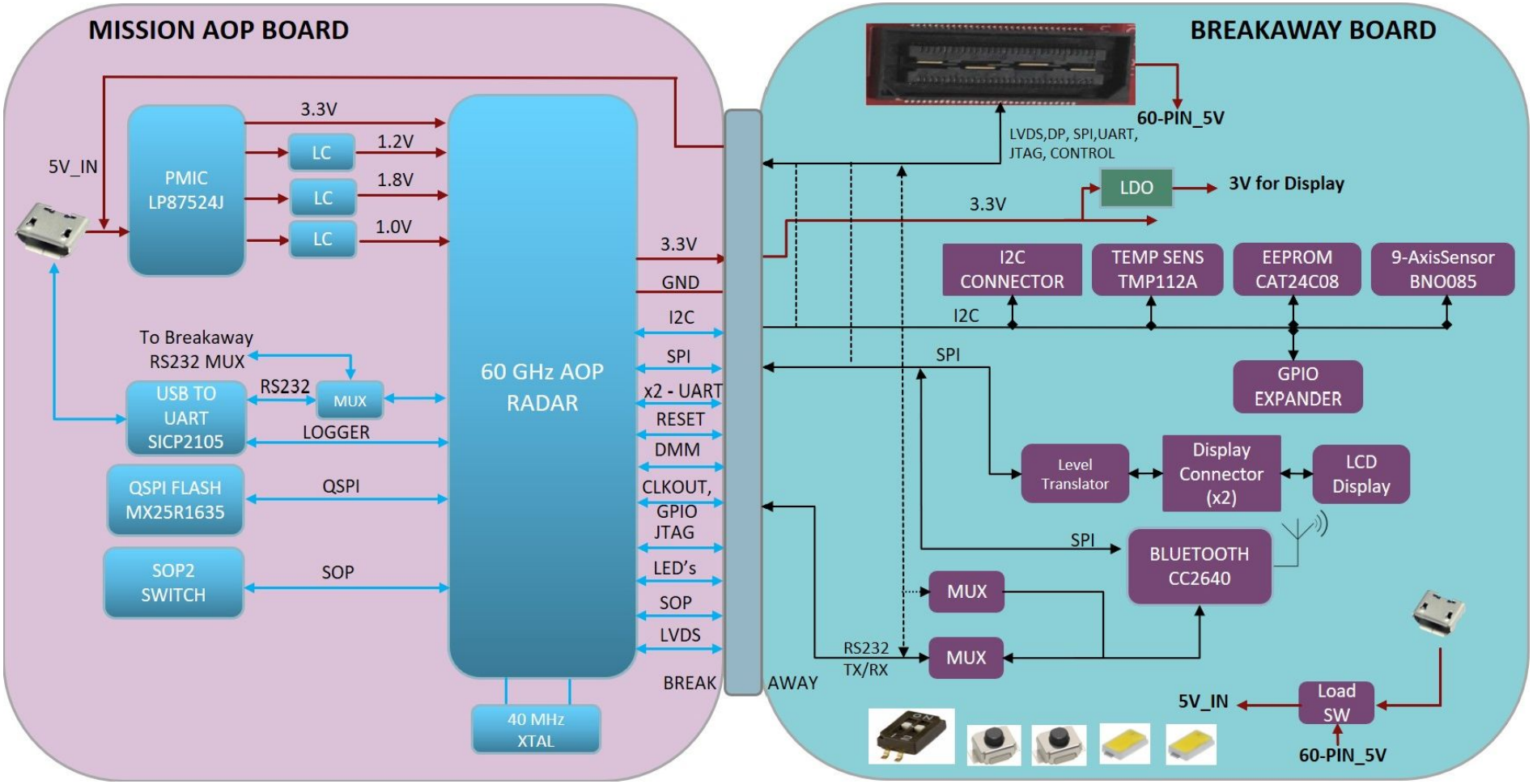
BLOCK DIAGRAM

Revision History				
Rev	ECN #	Approved Date	Approved by	Notes
N/A	N/A	N/A	N/A	N/A

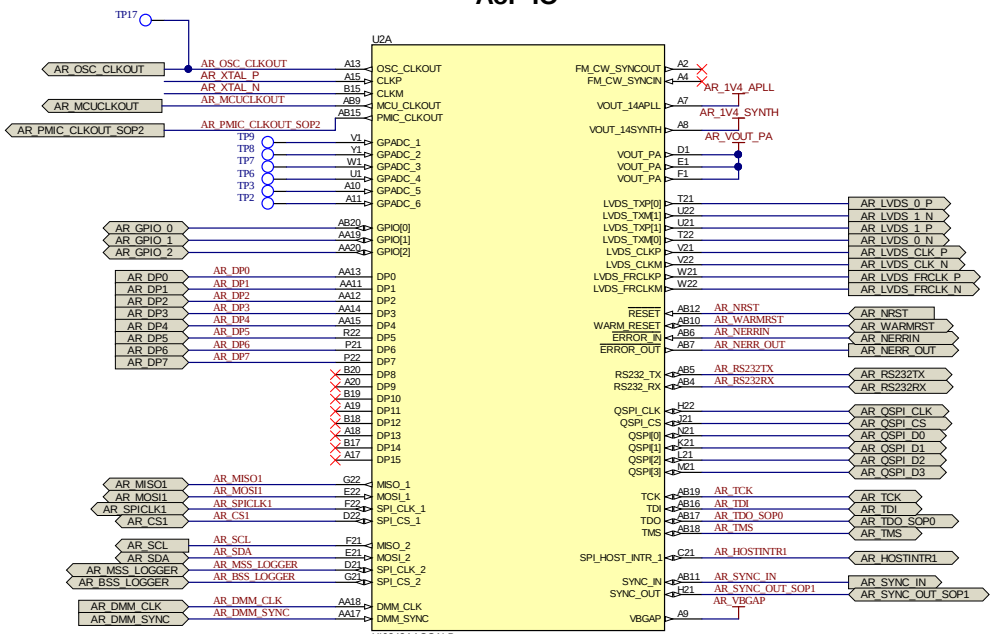


Orderable:		Designed for: Public Release	Mod. Date: 3/13/2019
TID #: N/A		Project Title: IWR6843AOPEVM	
Number: PROC091	Rev: B		
SVN Rev:		Assembly Variant:	Sheet: 1 of 12
Drawn By:		File: PROC091B_BLOCK_DIAGRAM.SchDoc	Size: B
Engineer: ANTONY/BALA		Contact: http://www.ti.com/support	http://www.ti.com

TABLE OF CONTENTS

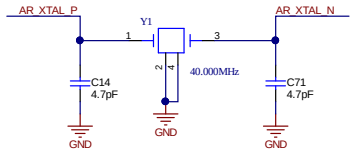
Orderable:		Designed for: Public Release	Mod. Date: 3/13/2019
TID #: N/A		Project Title: IWR6843AOPEVM	
Number: PROC091	Rev: B		
SVN Rev:		Assembly Variant:	Sheet: 2 of 12
Drawn By:		File: PROC091B_TABLE_OF_CONTENTS.SchDoc	Size: B
Engineer: ANTONY/BALA		Contact: http://www.ti.com/support	http://www.ti.com

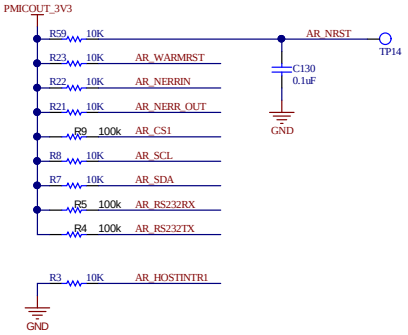
AoP IO



40MHz CRYSTAL

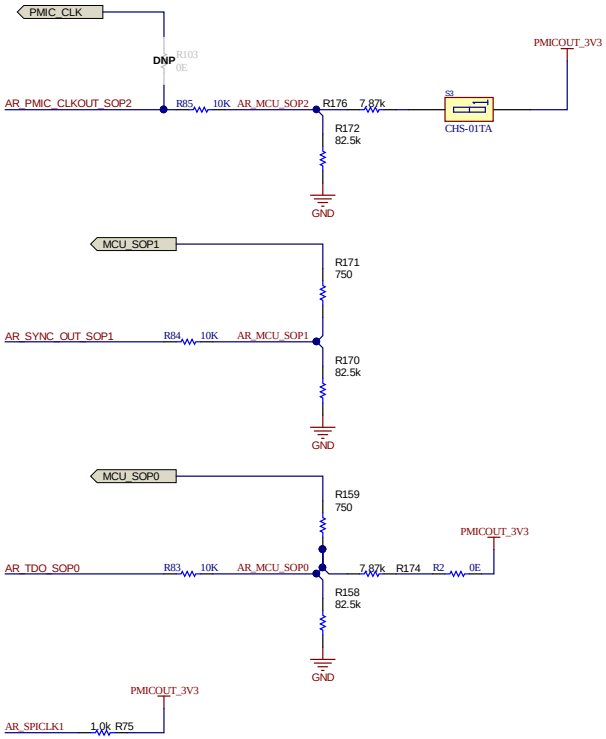
Avoid stubs on XTAL pins.





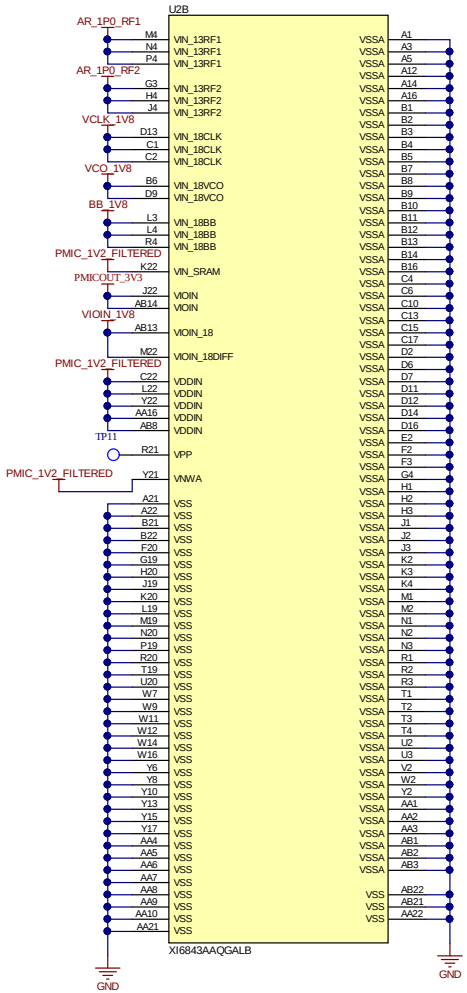
SOP_MODE2 - '011' - DEV/FLED/ORBIT
SOP_MODE4 - '001' - FUNCTIONAL MODE
SOP_MODE5 - '101' - FLASH MODE

SOP OPTIONS

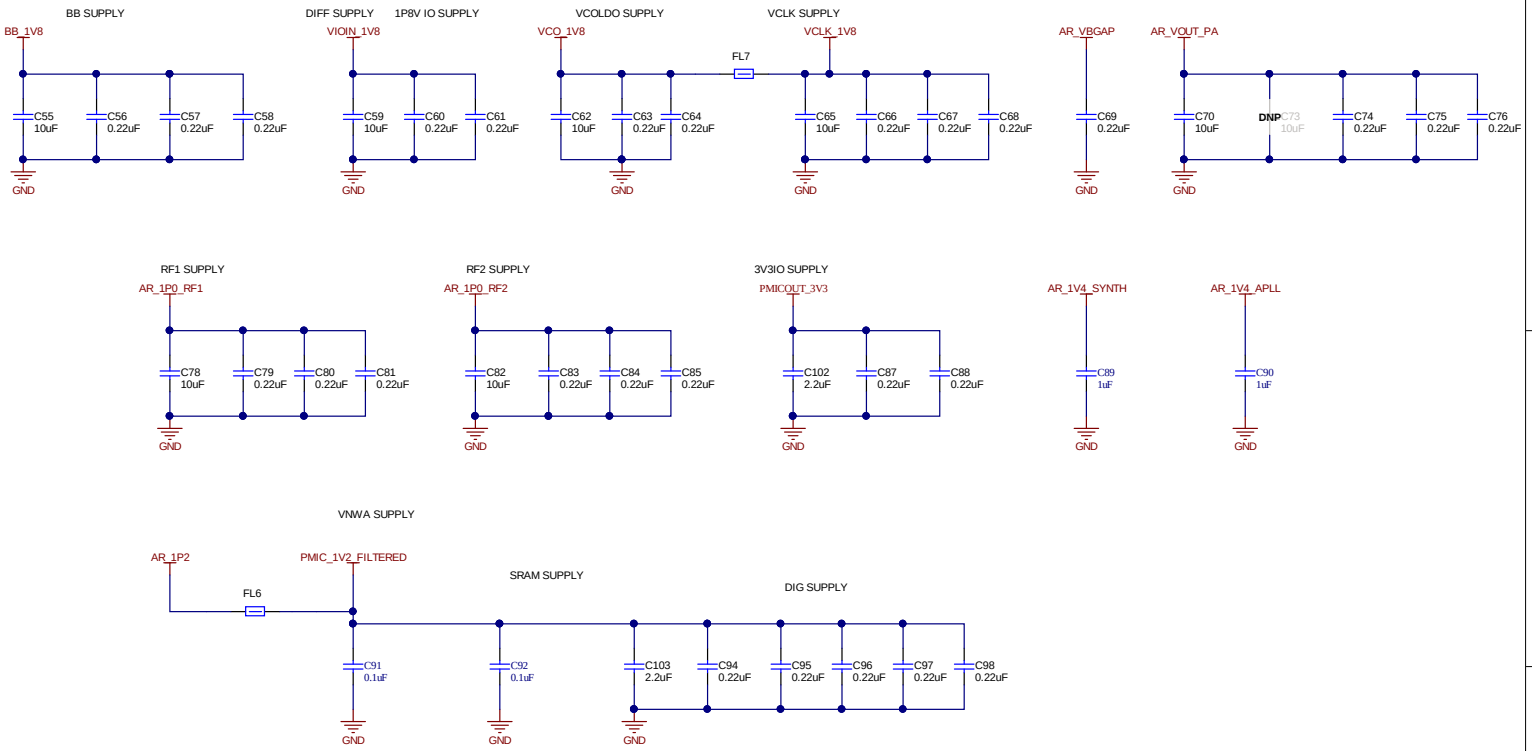


Orderable:		Designed for: Public Release	Mod. Date: 6/21/2019
TID #: N/A		Project Title: IWR6843AOPEVM	
Number: PROC091	Rev: B		
SVN Rev:		Assembly Variant:	Sheet: 3 of 12
Drawn By:		File: PROC091B_AOP-IO.SchDoc	Size: B
Engineer: ANTONY/BALA		Contact: http://www.ti.com/support	http://www.ti.com

AoP POWER



DECOUPLING CAPS



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TID #: N/A		Project Title: IWR6843AOPEVM	
Number: PROC091	Rev: B		
SVN Rev:		Assembly Variant:	Sheet: 4 of 12
Drawn By:		File: PROC091B_AOP_PWR.SchDoc	Size: B
Engineer: ANTONY/BALA		Contact: http://www.ti.com/support	

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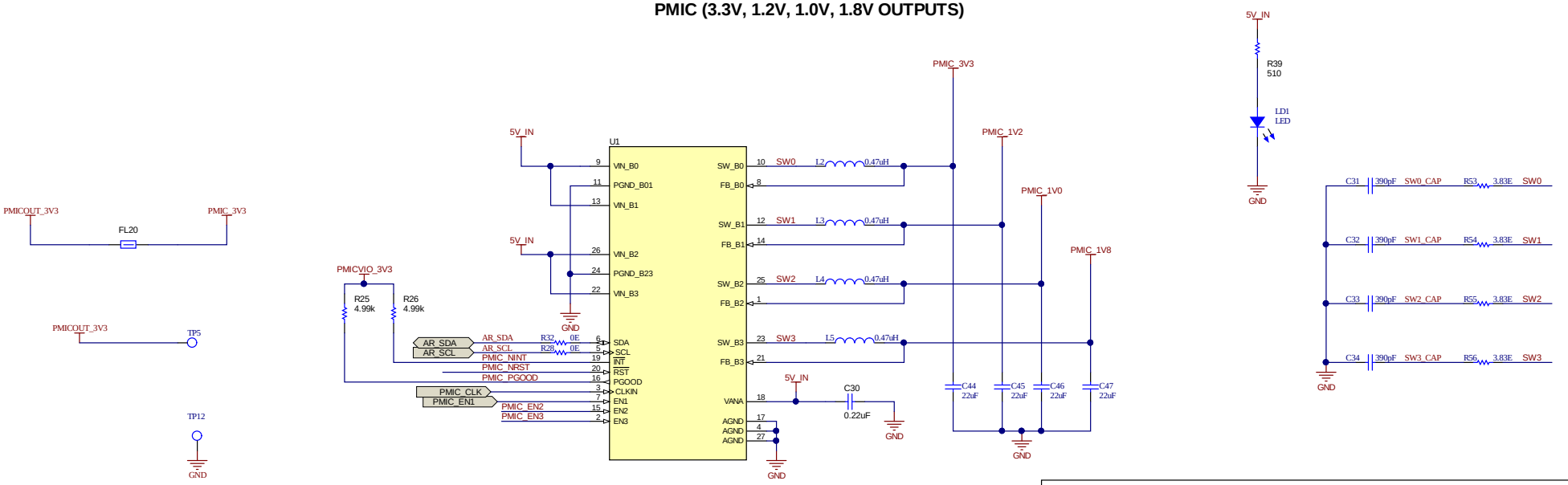
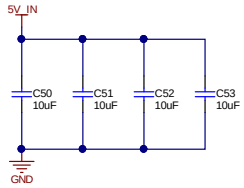
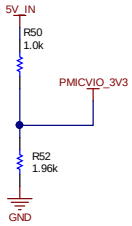
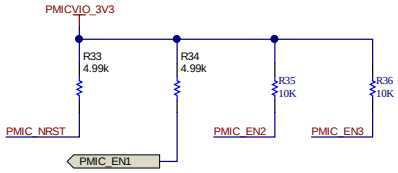
5V LED INDICATION

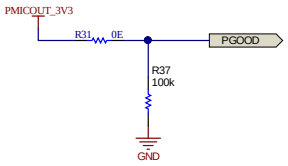
PMIC (3.3V, 1.2V, 1.0V, 1.8V OUTPUTS)



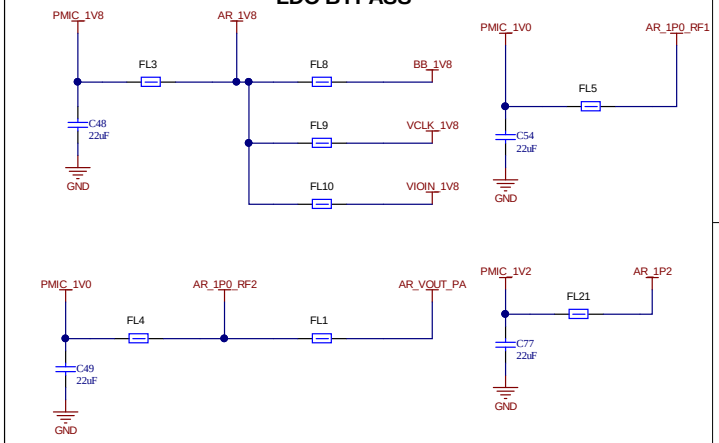






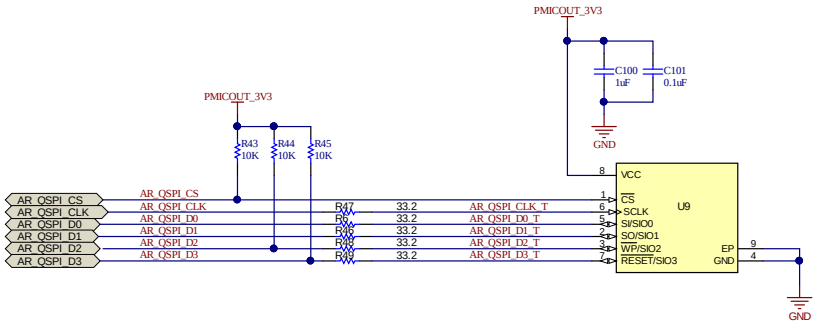


LDO BYPASS

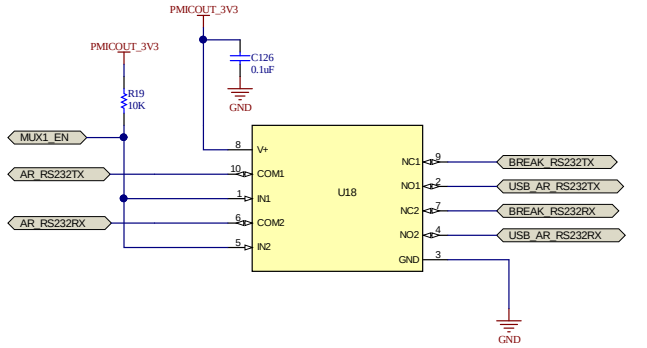


Orderable:		Designed for: Public Release	Mod. Date: 3/14/2019
TID #: N/A		Project Title: IWR6843AOPEVM	
Number: PROC091	Rev: B		
SVN Rev:		Assembly Variant:	Sheet: 5 of 12
Drawn By:		File: PROC091B_PMIC.SchDoc	Size: B
Engineer: ANTONY/BALA		Contact: http://www.ti.com/support	http://www.ti.com

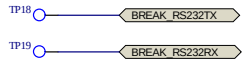
QSPI FLASH



ANALOG MUX SELECTION FOR UART



MUX IN CONFIG
S4 OFF : MAIN BOARD UART
S4 ON : BREAK AWAY UART



Orderable:		Designed for: Public Release	Mod. Date: 3/14/2019
TID #: N/A		Project Title: IWR6843AOPEVM	
Number: PROC091	Rev: B		
SVN Rev:		Assembly Variant:	Sheet: 6 of 12
Drawn By:		File: PROC091B_FLASH.SchDoc	Size: B
Engineer: ANTONY/BALA		Contact: http://www.ti.com/support	

TEXAS INSTRUMENTS
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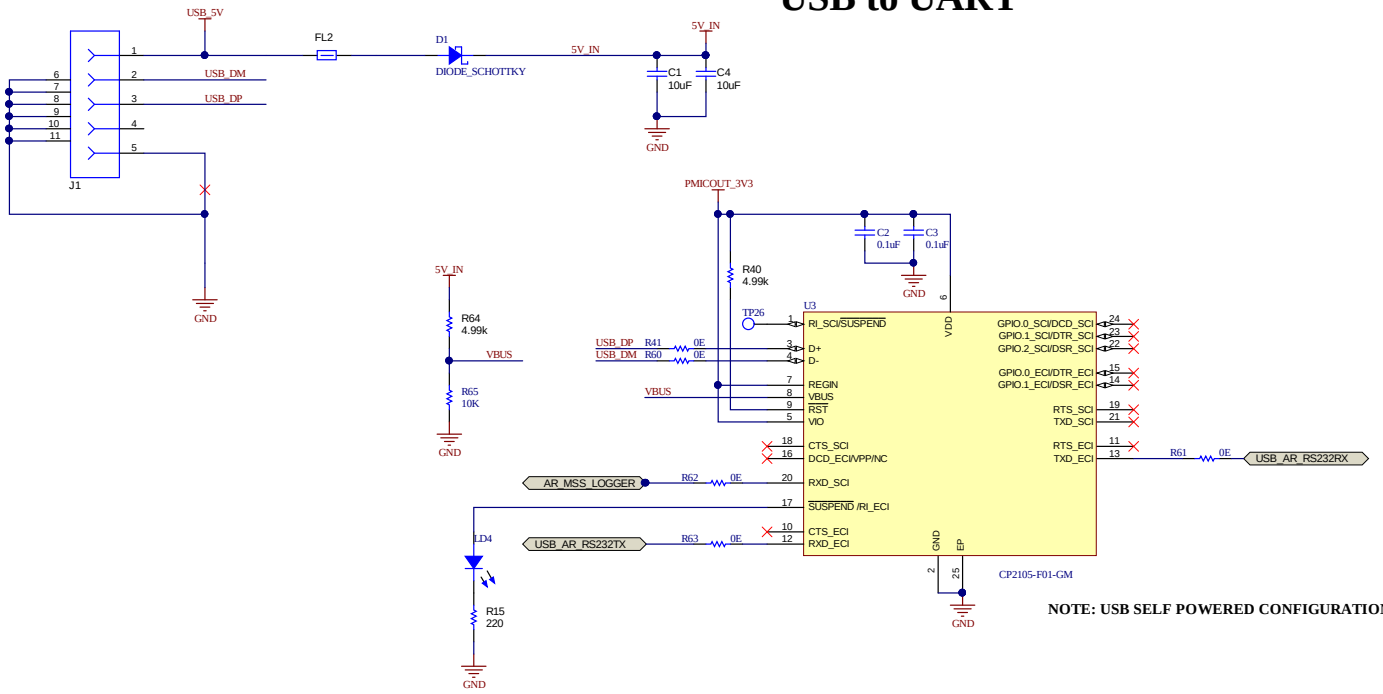
USB to UART



USB ENUMERATION LED

NOTE: USB SELF POWERED CONFIGURATION

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TID #: N/A		Project Title: IWR6843AOPEVM	
Number: PROC091	Rev: B		
SVN Rev:		Assembly Variant:	Sheet: 7 of 12
Drawn By:		File: PROC091B_USB_TO_UART.SchDoc	Size: B
Engineer: ANTONY/BALA		Contact: http://www.ti.com/support	

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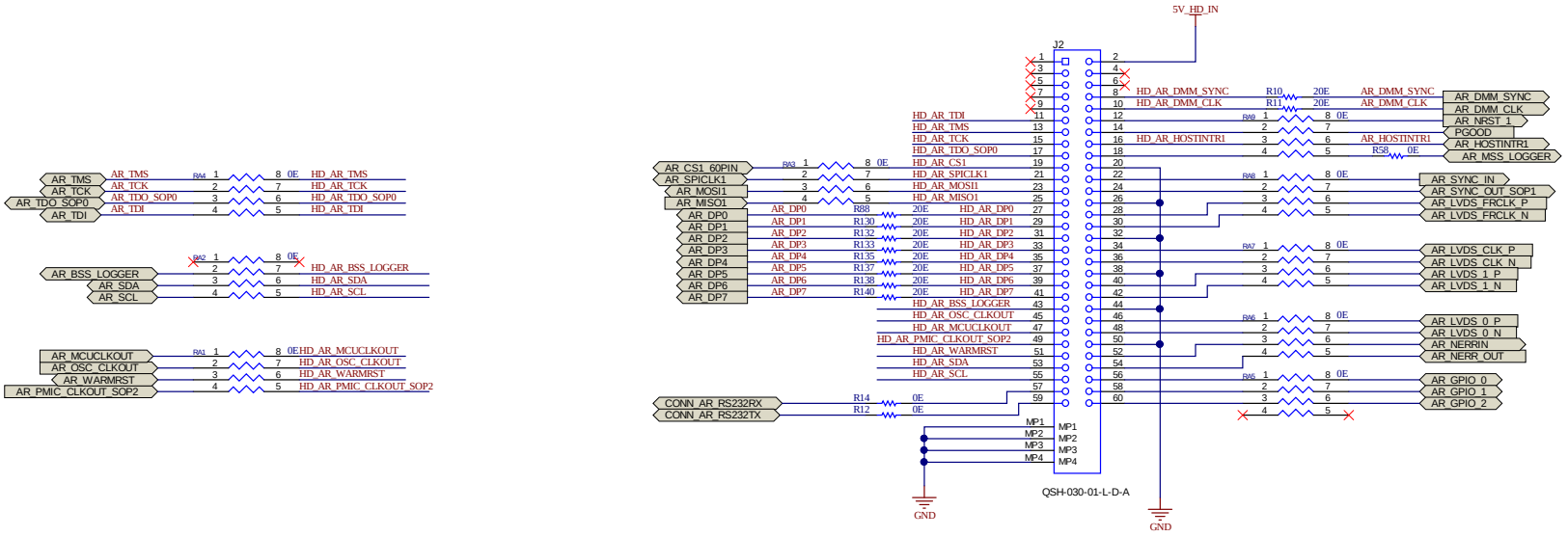
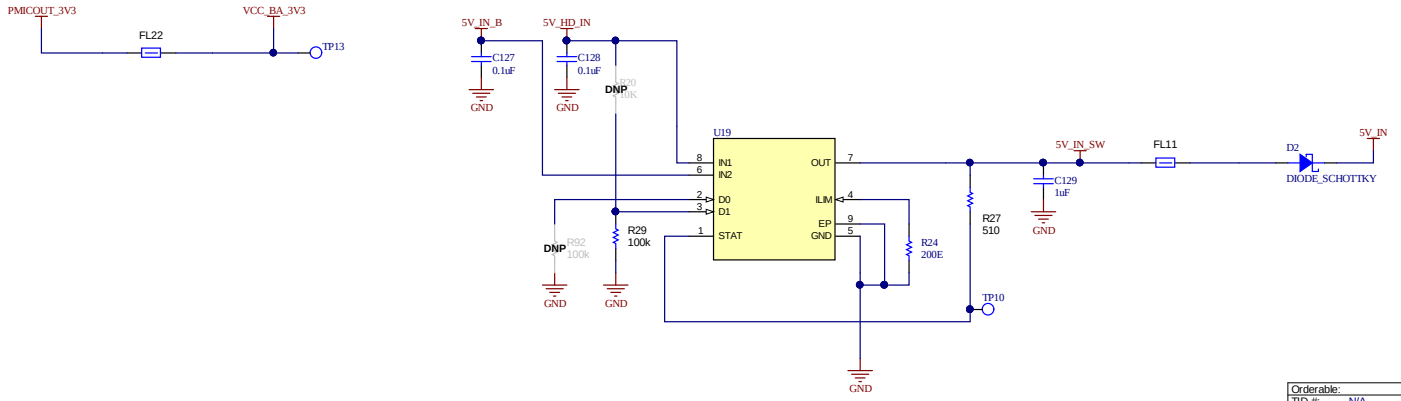
BREAKAWAY _ 60-PIN HD CONNECTOR



CONNECTOR PWR / USB PWR LOAD SWITCH



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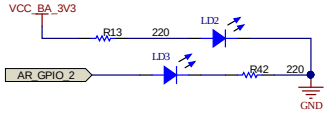
TID #: N/A		Project Title: IWR6843AOPEVM	
Number: PROC091	Rev: B		
SVN Rev:		Assembly Variant:	Sheet: 8 of 12
Drawn By:		File: PROC091B_BREAKAWAY_60PIN_CONN.SchDoc	Size: B
Engineer: ANTONY/BALA		Contact: http://www.ti.com/support	http://www.ti.com

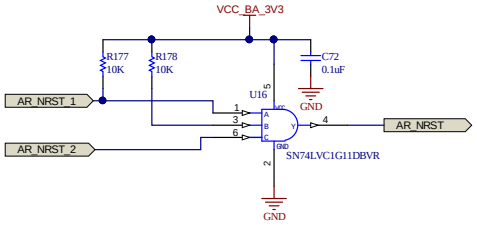
BREAKAWAY_SECTION_2

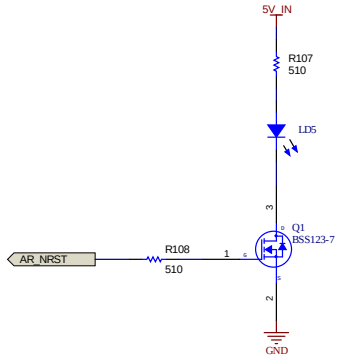
3V3 LED INDICATION

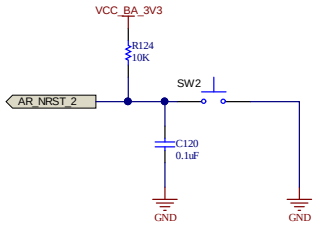


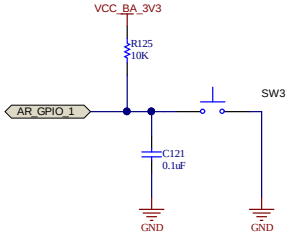
USER LED

AOP RESET





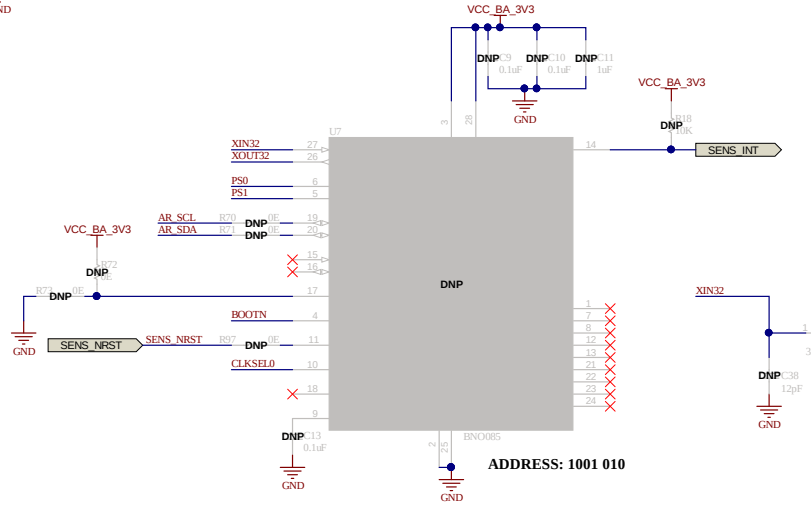




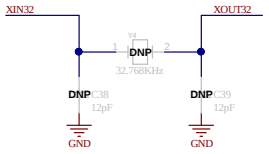
TP20

GND

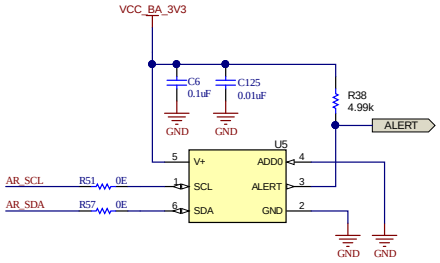
9 - AXIS SENSOR



ADDRESS: 1001 010

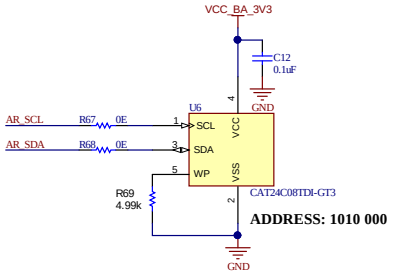


TEMPERATURE SENSOR



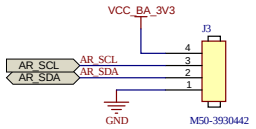
ADDRESS: 1001 000

EEPROM

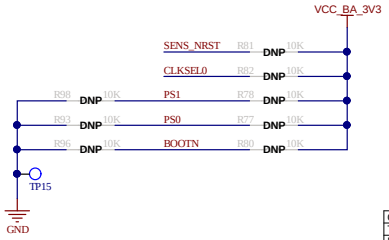


ADDRESS: 1010 000

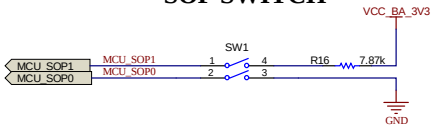
I2C HEADER



PULL-UPs



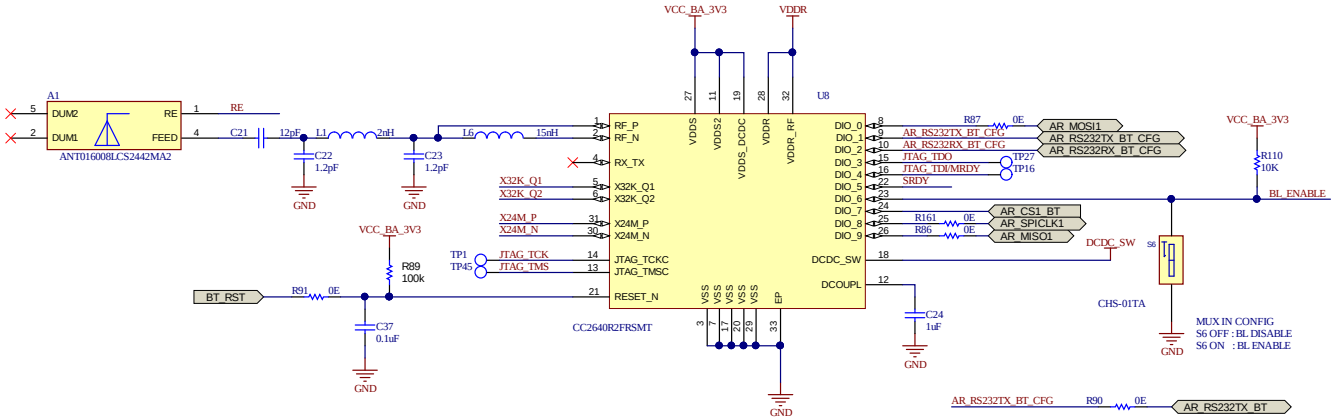
SOP SWITCH

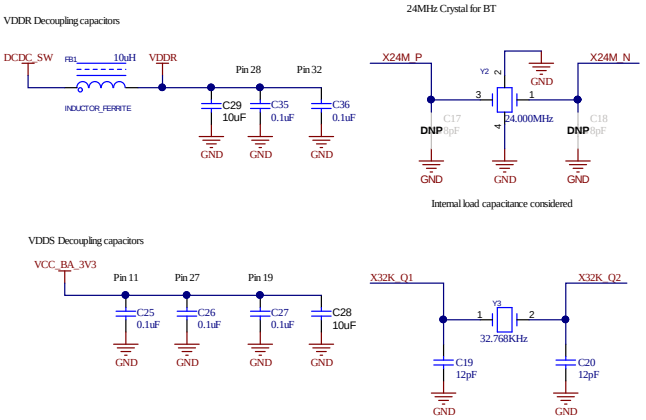


Orderable:		Designed for: Public Release	Mod. Date: 3/14/2019
TID #: N/A		Project Title: IWR6843AOPEVM	
Number: PROC091	Rev: B		
SVN Rev:		Assembly Variant:	Sheet: 9 of 12
Drawn By:		File: PROC091B_BREAKAWAY_2.SchDoc	Size: B
Engineer: ANTONY/BALA		Contact: http://www.ti.com/support	http://www.ti.com

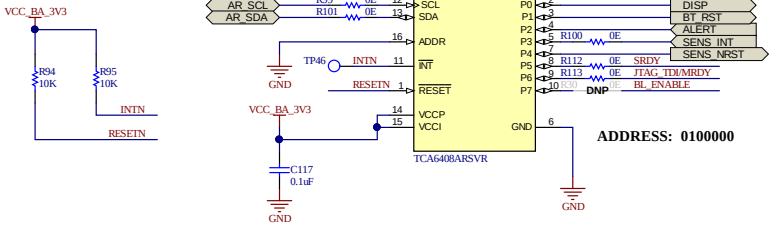
BREAKAWAY_SECTION_3

BLUETOOTH

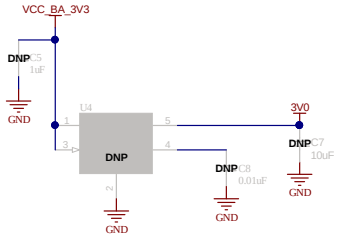




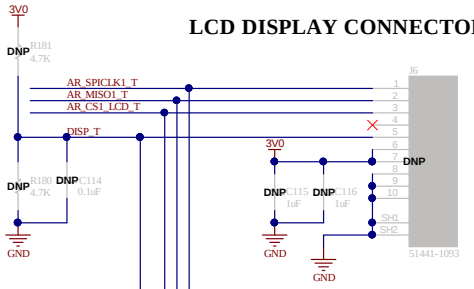
GPIO EXPANDER



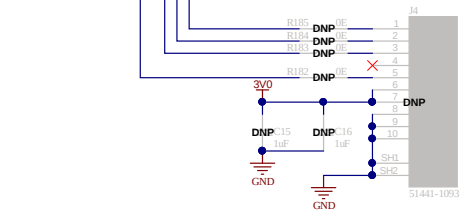
3V3 TO 3V LDO



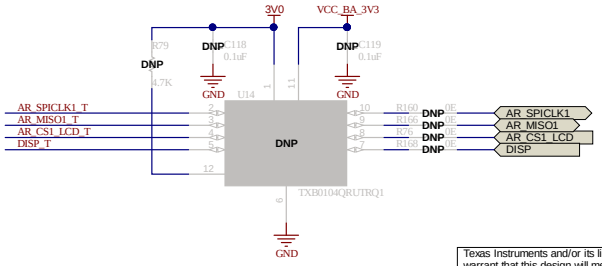
LCD DISPLAY CONNECTOR-1



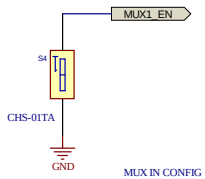
LCD DISPLAY CONNECTOR-2



LEVEL TRANSLATOR FOR DISPLAY



UART SELECTION SWITCH FOR U18



MUX IN CONFIG
S4 OFF : MAIN BOARD UART
S4 ON : BREAK AWAY UART

Orderable:		Designed for: Public Release	Mod. Date: 3/14/2019
TID #: N/A		Project Title: IWR6843AOPEVM	
Number: PROC091	Rev: B		
SVN Rev:		Assembly Variant:	Sheet: 10 of 12
Drawn By:		File: PROC091B_BREAKAWAY_3.SchDoc	Size: B
Engineer: ANTONY/BALA		Contact: http://www.ti.com/support	

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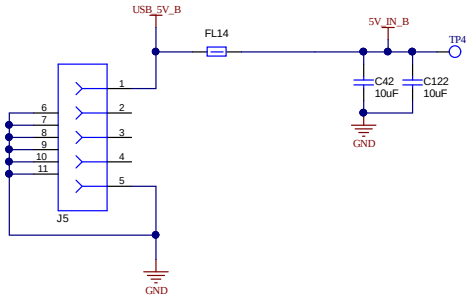
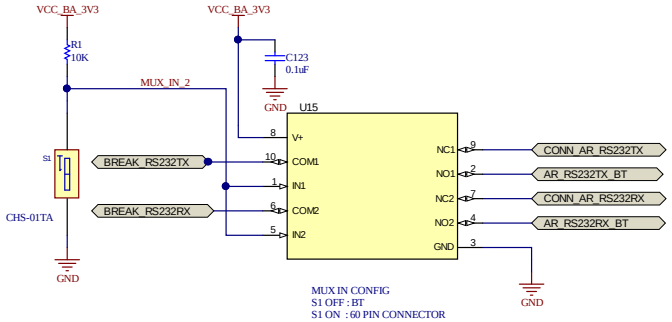
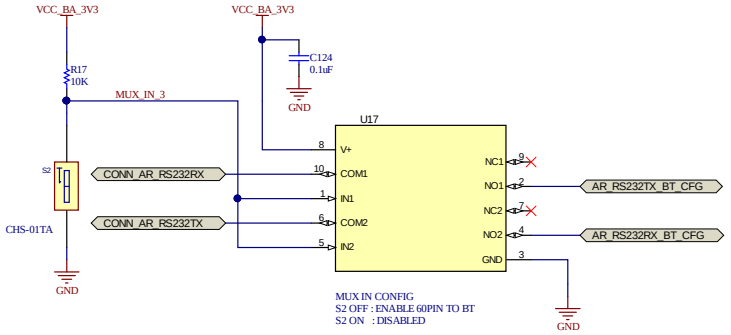
BREAKAWAY_SECTION_4

ANALOG MUX SELECTION FOR UART

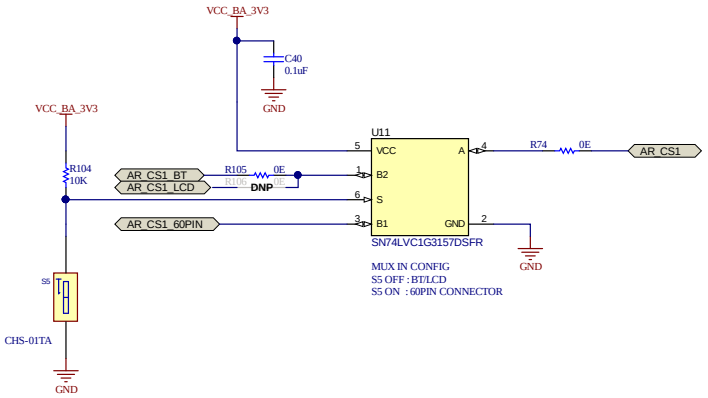
USB CONNECTOR







ANALOG MUX SELECTION FOR SPI



Orderable:		Designed for: Public Release	Mod. Date: 3/14/2019
TID #: N/A		Project Title: IWR6843AOPEVM	
Number: PROC091	Rev: B		
SVN Rev:		Assembly Variant:	Sheet: 11 of 12
Drawn By:		File: PROC091B_BREAKAWAY_4.SchDoc	Size: B
Engineer: ANTONY/BALA		Contact: http://www.ti.com/support	

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HARDWARE

FIDUCIALS

DNP FID1

DNP FID2

DNP FID4

DNP FID3

STAND

ACC1

ACCESSORY

USB CABLE

ACC2

10-02333

SCREWS - M2 X 6MM

MH1

SCREW_PAN

MH2

SCREW_PAN

WASHERS - M2 X 0.4MM

MH3

WASHER_LOCK

MH4

WASHER_LOCK

NUT - M2 X 0.4MM

MH5

NUT_HEX

MH6

NUT_HEX

Logo1

PCB
LOGO

Texas Instruments

PCB
LOGO

ESD Susceptible

PCB
LOGO

FCC disclaimer

CAUTION HOT SURFACE1

CAUTION HOT SURFACE

Logo4

PCB
LOGO

WEEE logo

LOGO3

LBL1

PCB Label

Size: 0.65" x 0.20 "

PCB LABELS : THESE LABELS NEED TO BE PUT ON THE ASSEMBLED PCB

1) TOP SIDE OF THE PCB ->

AOP EVM

REV B

ASSEMBLY NOTES:

ASSEMBLIES MUST BE CLEAN AND FREE FROM FLUX AND ALL CONTAMINANTS. USE OF NO CLEAN FLUX IS NOT ACCEPTABLE PCB LOGO FCC DISCLAIMER

ASSEMBLIES MUST COMPLY WITH WORKMANSHIP STANDARDS IPC-A-610 CLASS 2, UNLESS OTHERWISE SPECIFIED

Orderable:		Designed for: Public Release	Mod. Date: 3/14/2019
TID #: N/A		Project Title: IWR6843AOPEVM	
Number: PROC091	Rev: B		
SVN Rev:		Assembly Variant:	Sheet: 12 of 12
Drawn By:		File: PROC091B_Hardware.schdoc	Size: B
Engineer: ANTONY/BALA		Contact: http://www.ti.com/support	

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