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REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVAL
B	INITIAL RELEASE	11-9-2021	Stephen Carroll

Variant: [No Variations]

RELEASED

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DESIGN CONSIDERATIONS

DESIGN NOTE:  
Example text for informational  
design notes .

DESIGN NOTE:  
Example text for critical  
design notes.

DESIGN NOTE:  
Example text for cautionary  
design notes.

LAYOUT NOTE:  
Example text for critical  
layout guidelines.

SAP MATERIAL NUMBER:  
PCL298338

APPROVAL AND RELEASE  
RECORDS MAINTAINED IN PDE

DESIGNER  
ENGR.

William Bryson  
Stephen Carroll

DATE  
11-9-2021

TITLE:  
DWM3001C PCB  
LAMINATE SCHEMATIC

PDE CONTROLLED

SIZE  
B

DOCUMENT NUMBER:  
DWM3001C-100

PROTOTYPE  
INSTANCE:  
N/A

REV.  
B

SCALE: NTS

SHEET 1 OF 8

1

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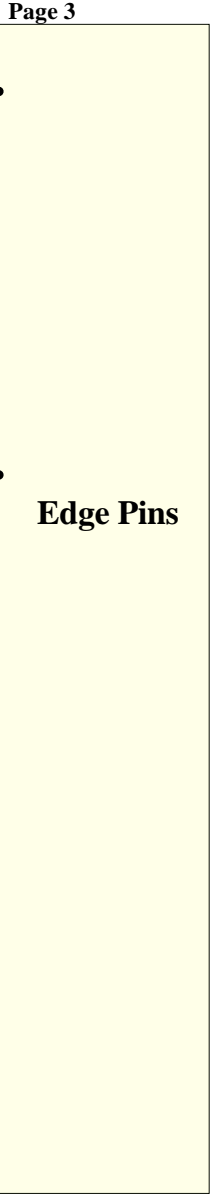
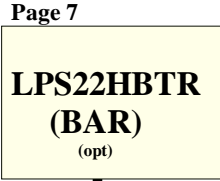
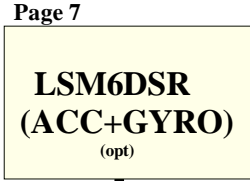
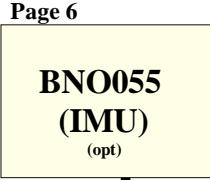
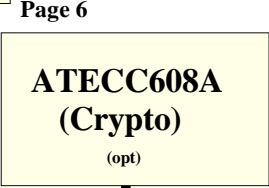
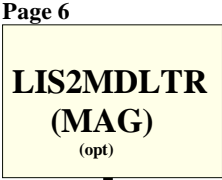
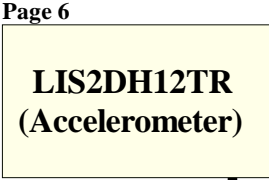
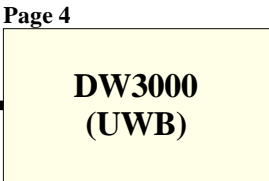
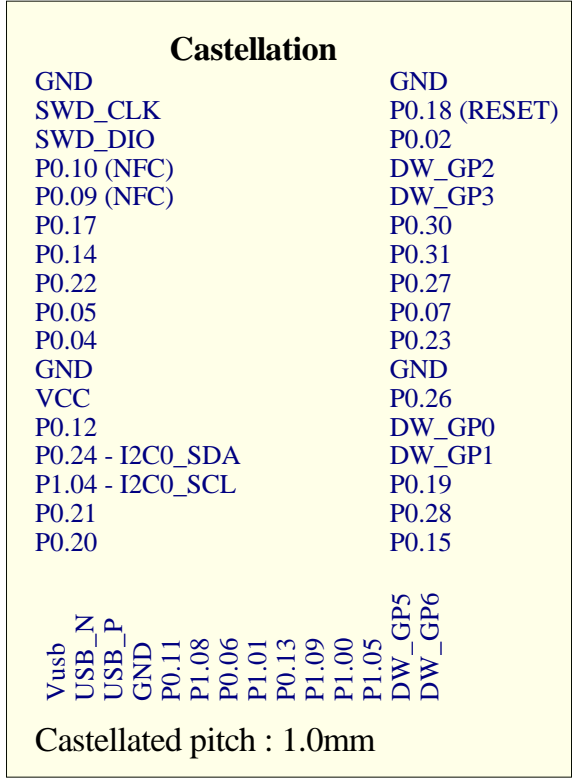
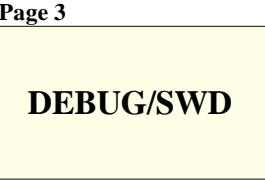
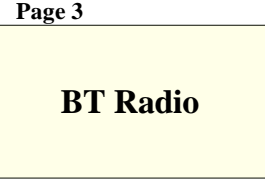
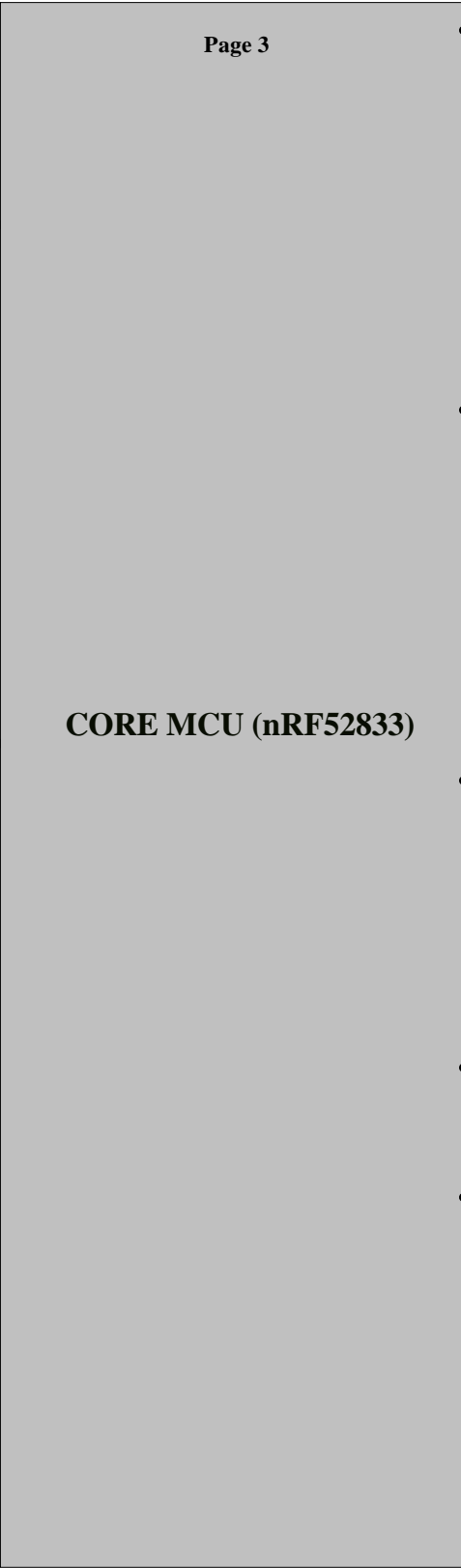
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FOR-001324 REV D

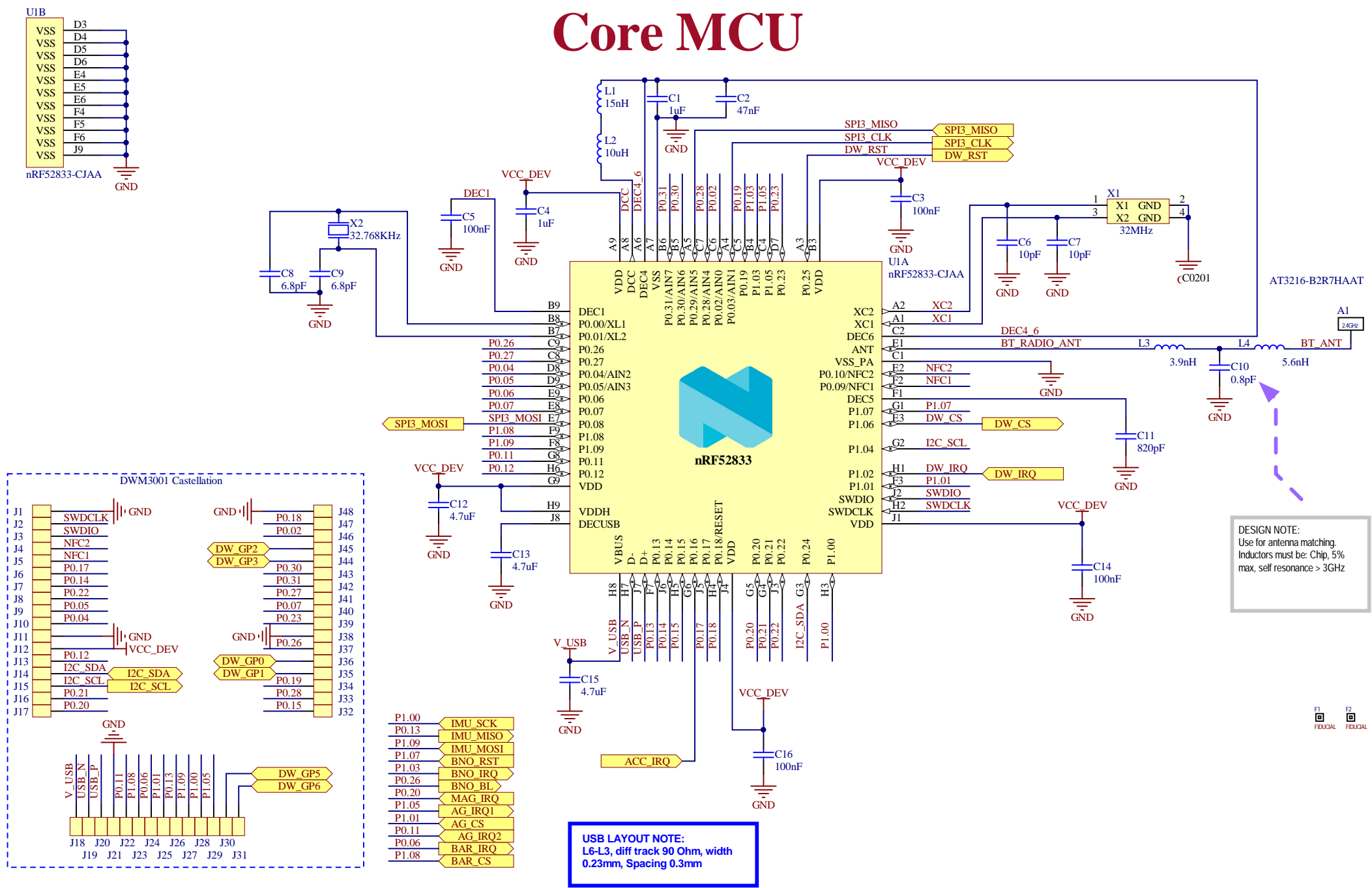
DWM3001  
(Block Diagram)




SAP MATERIAL NUMBER: PCL298338						
APPROVAL AND RELEASE RECORDS MAINTAINED IN PDE	DATE					
DESIGNER William Bryson	11-9-2021					
ENGR. Stephen Carroll						
PDE CONTROLLED		TITLE: DWM3001C PCB LAMINATE SCHEMATIC				
		SIZE B	DOCUMENT NUMBER: DWM3001C-100		PROTOTYPE INSTANCE: N/A	REV. B
		SCALE: NTS			SHEET 2	OF 8

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVAL
B	INITIAL RELEASE	11-9-2021	Stephen Carroll

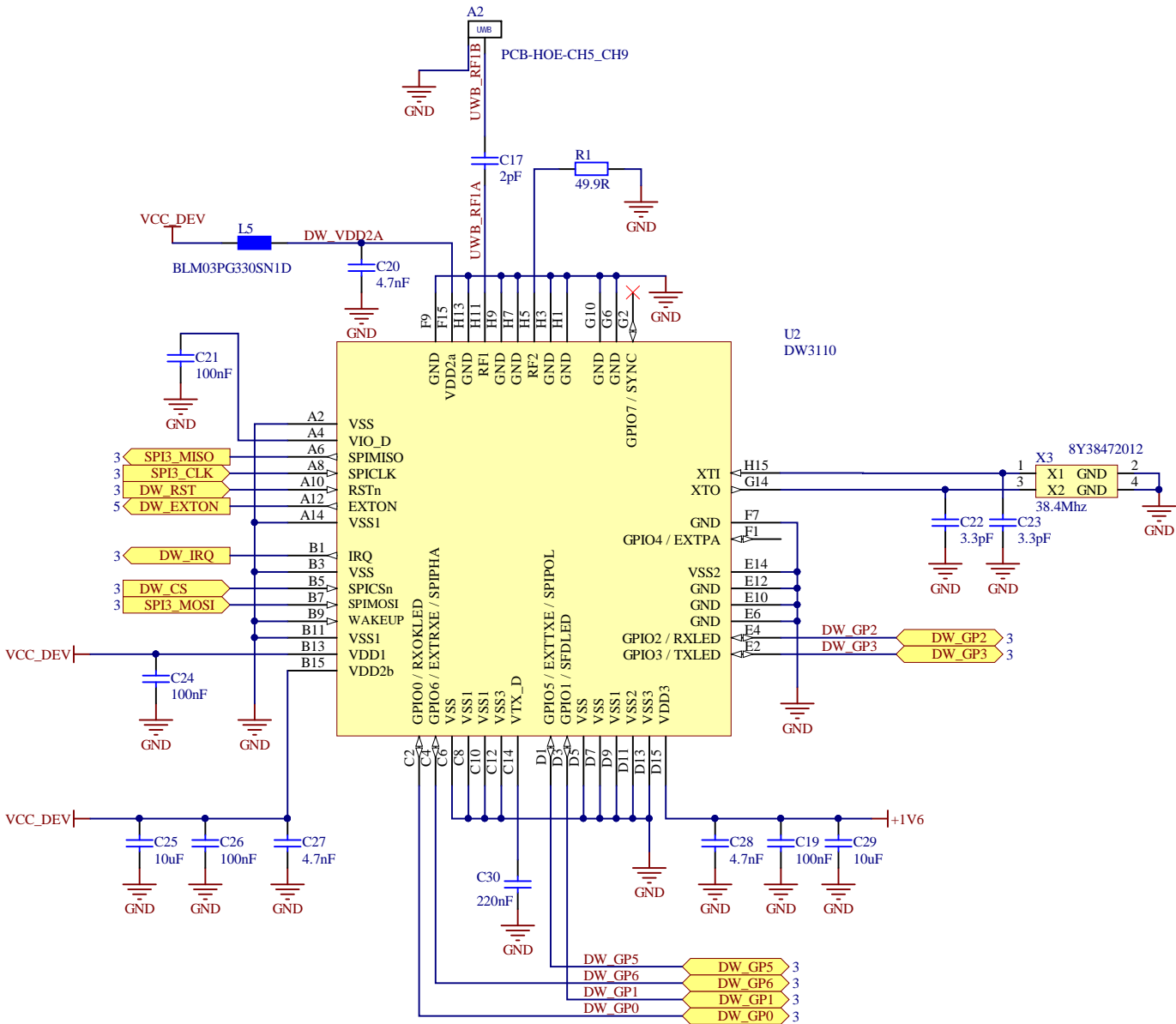
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVAL
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SAP MATERIAL NUMBER: PCL298338					
APPROVAL AND RELEASE RECORDS MAINTAINED IN PDE	DATE		TITLE:  DWM3001C PCB LAMINATE SCHEMATIC		
DESIGNER	William Bryson				
ENGR.	Stephen Carroll				
PDE CONTROLLED			SIZE B	DOCUMENT NUMBER: DWM3001C-100	PROTOTYPE INSTANCE: N/A
		SCALE: NTS		SHEET 3 OF 8	

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVAL
B	INITIAL RELEASE	11-9-2021	Stephen Carroll

DW3000



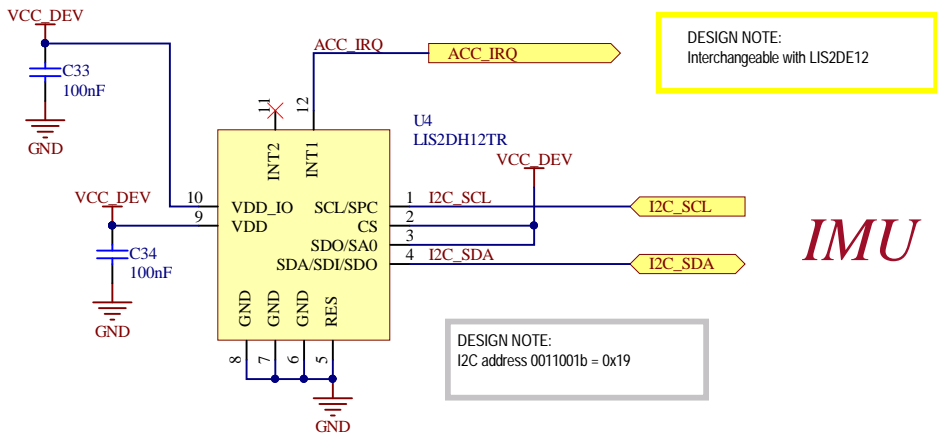
SAP MATERIAL NUMBER: PCL298338					
APPROVAL AND RELEASE RECORDS MAINTAINED IN PDE	DATE				
DESIGNER	William Bryson				
ENGR.	Stephen Carroll				
11-9-2021					
TITLE: DWM3001C PCB LAMINATE SCHEMATIC					
PDE CONTROLLED		SIZE	DOCUMENT NUMBER:	PROTOTYPE INSTANCE:	REV.
		B	DWM3001C-100	N/A	B
		SCALE: NTS		SHEET 4	OF 8



REVISION HISTORY			
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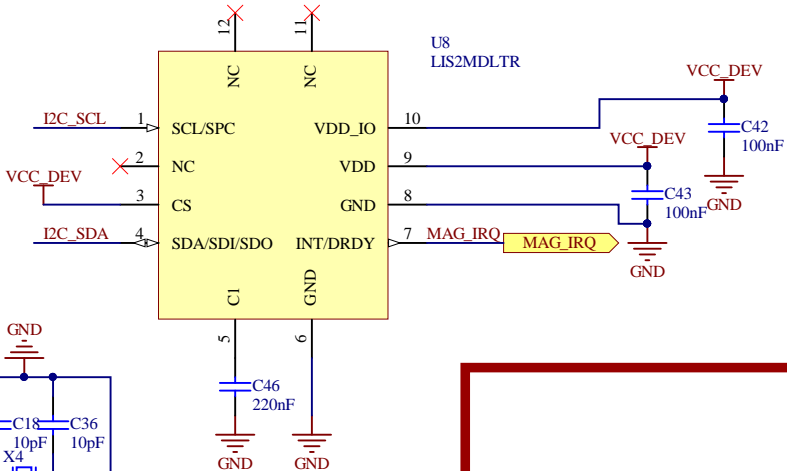
I2C devices

3-Axes Accelerometer



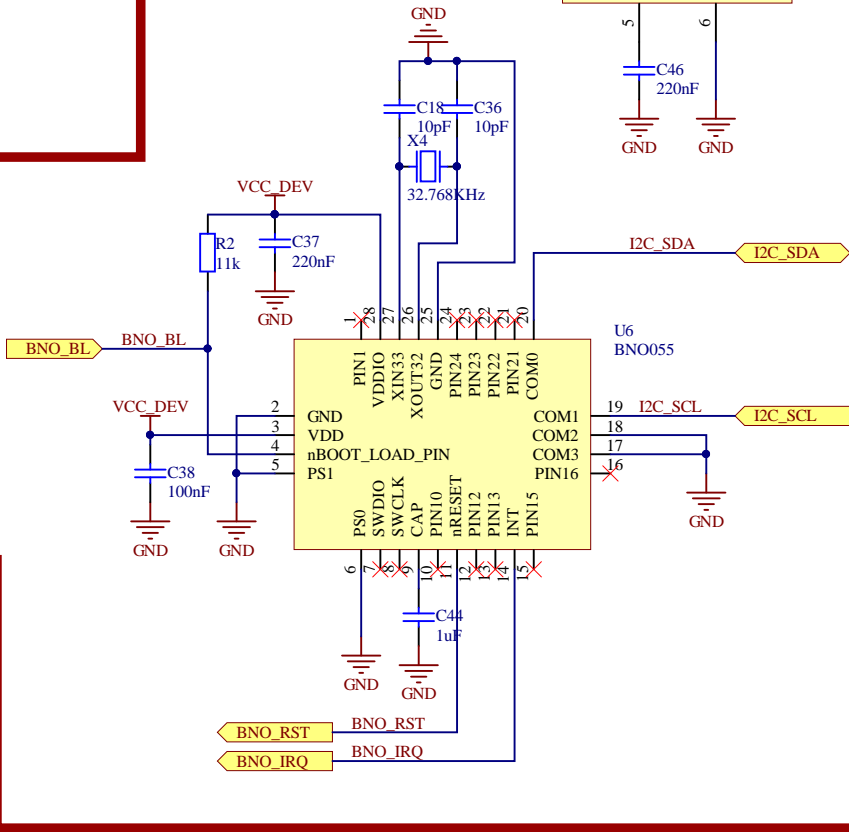
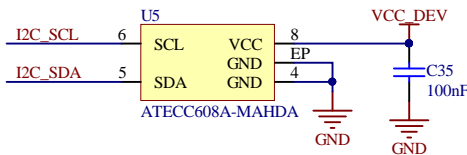
IMU

3-Axes Magnetometer




Do Not Populate

CryptoAuthentication

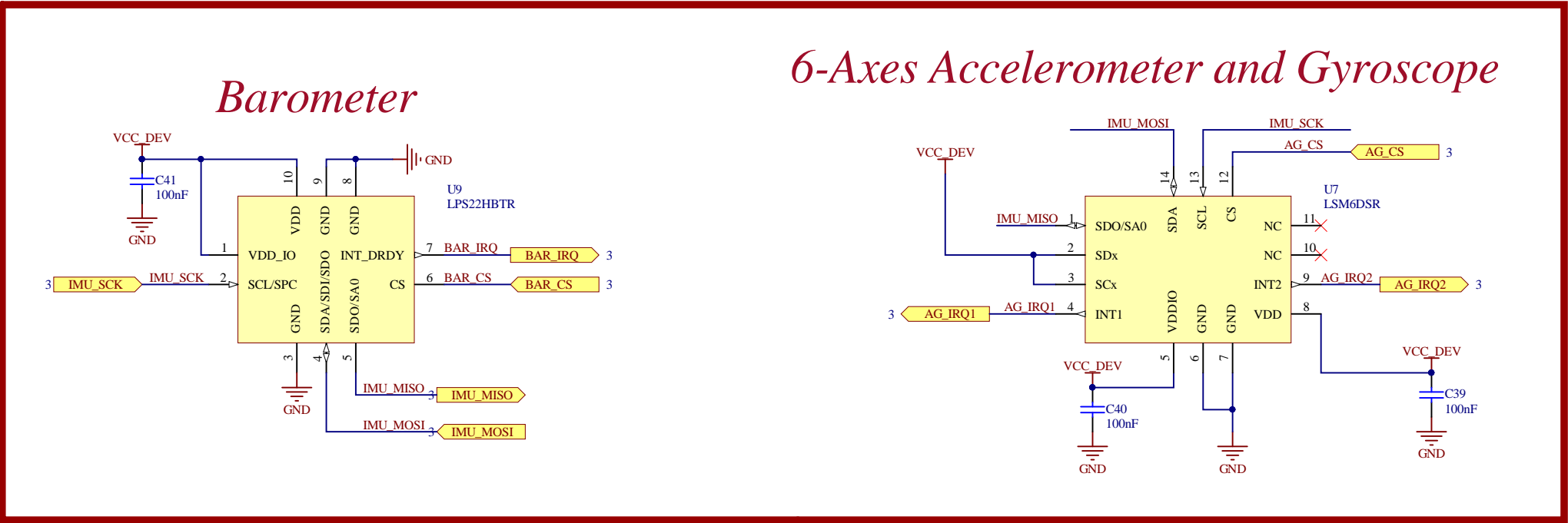


DESIGN NOTE:  
BNO XTAL caps must be  
recalculated  
nBootload Res should be 10k


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ENGR.	Stephen Carroll					
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		B	DWM3001C-100		N/A	B
		SCALE:	NTS		SHEET	6

REVISION HISTORY			
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SPI devices



Do Not Populate

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DESIGNER	William Bryson	11-9-2021		TITLE: DWM3001C PCB LAMINATE SCHEMATIC		
ENGR.	Stephen Carroll					
PDE CONTROLLED		SIZE	DOCUMENT NUMBER:		PROTOTYPE INSTANCE:	REV.
		B	DWM3001C-100		N/A	B
		SCALE:	NTS		SHEET	7

# PCB REVISION HISTORY

## A1

- Inital version

## B1

- SMA -> HOE Antenna

## C1

- Qorvo BOM

## D1

- ICM-20948 -> BNO055
- P0.26 is now shared with BNO055 Bootloader pin


## D1-SMA

- Hoe antenna replaced with SMA
- PCB board is downsized to be compatible with A1 version

## E1

- Fixed I2C castellation
- Fixed typo error in castellation in Block diagram P1.02 -> P0.02
- Adjusted GND copper pour in L2, L3, L4
- Swapped DW\_GP5 and DW\_GP6 to fit castellation in Block diagram
- Added Solder mask on antenna GND port to prevent solder leakage

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ENGR.	Stephen Carroll					
PDE CONTROLLED			SIZE	DOCUMENT NUMBER:	PROTOTYPE INSTANCE:	REV.
			B	DWM3001C-100	N/A	B
			SCALE:	NTS		SHEET 8 OF 8