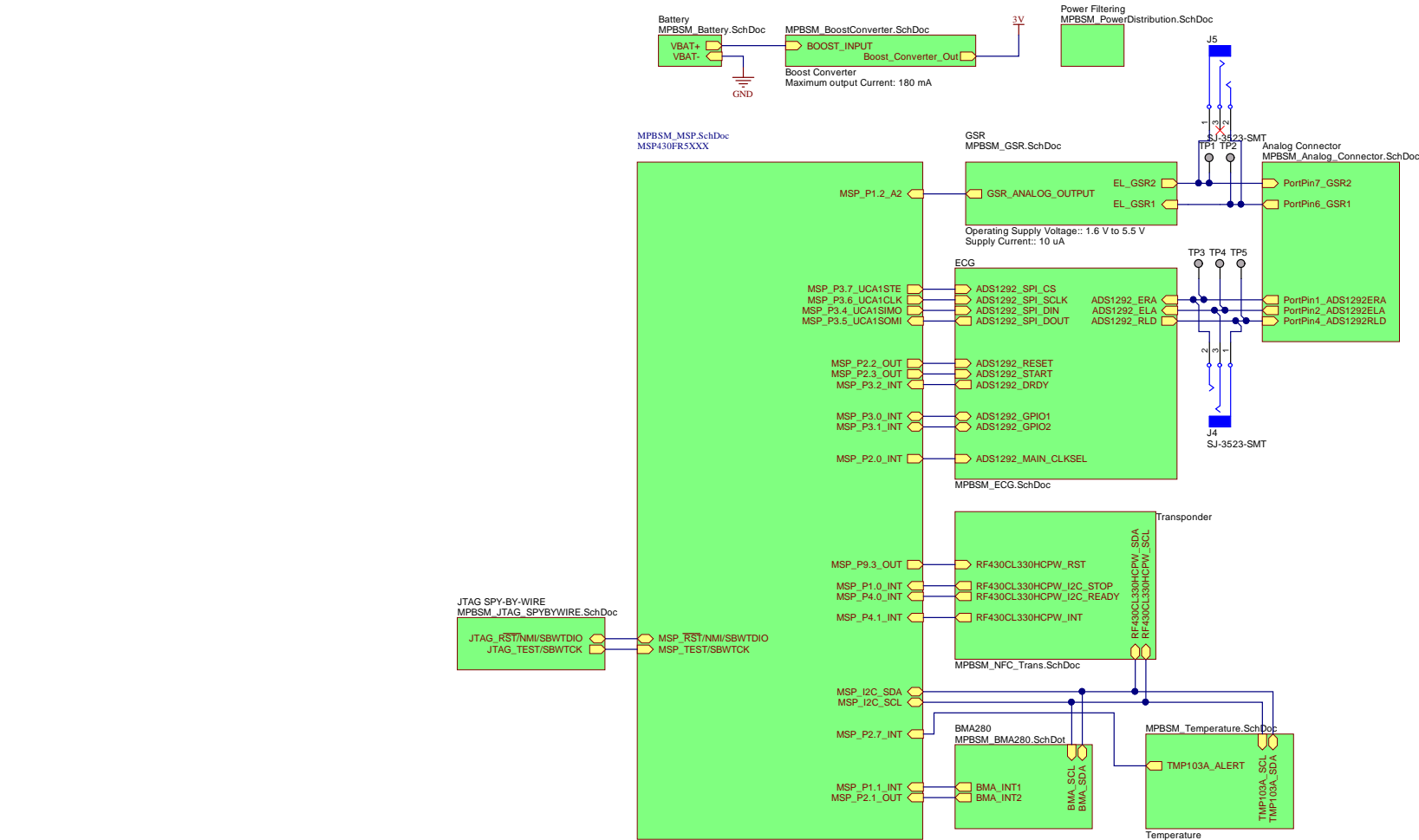


Revision History	
Revision	Notes



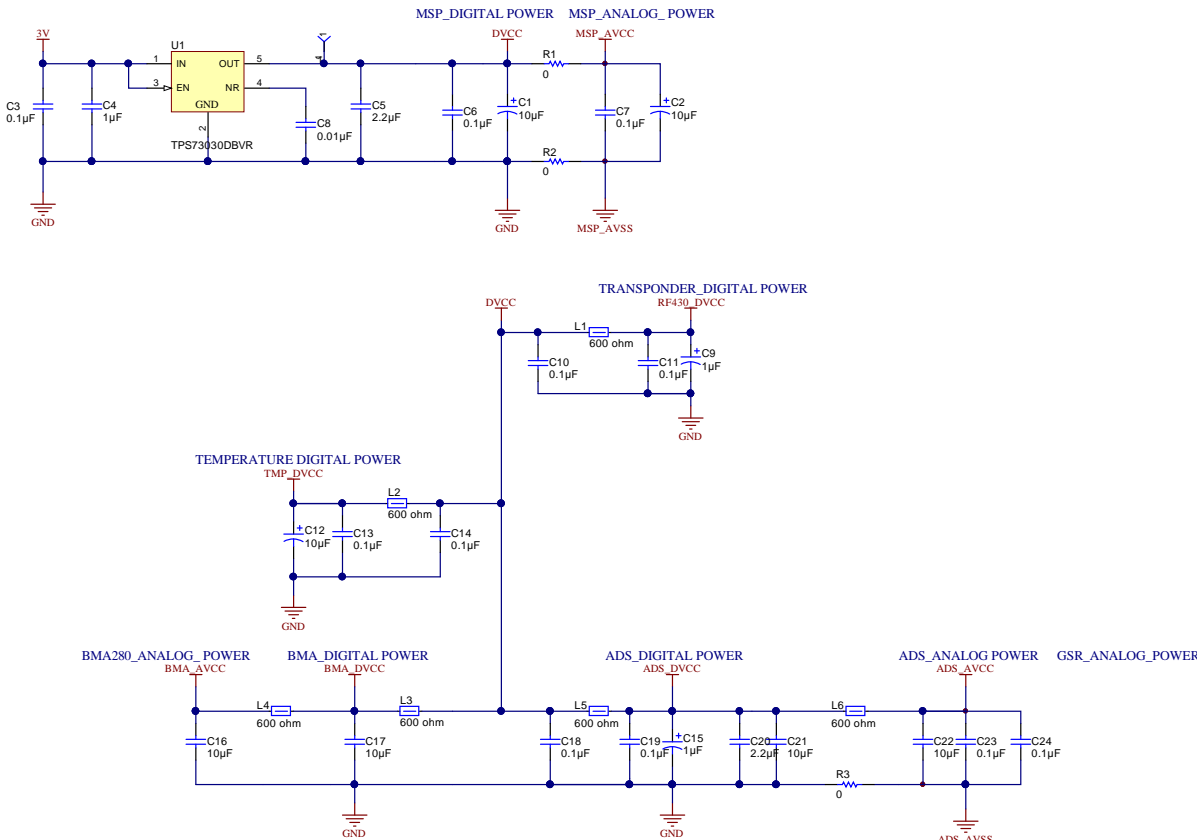
Designator
MPBSM_Hardware_ANSI-B.SchDoc

Texas Instruments and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. Texas Instruments and/or its licensors warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. Texas Instruments and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.

Number: TIDM-BIOSIGNMONITOR	Designed for: Public Release	Mod. Date: 5/11/2016
Number: E2	Project Title: Multi-Parameter Bio-signal monitor	
Rev: 2	Sheet Title: MPBSM Block Diagram	
Rev: 2	Assembly Variant: MPBSM_Project_FR4	Sheet: 1 of 12
Rev: 2	File: MPBSM_Block_Diagram.SchDoc	Size: B
Rev: 2	Contact: http://www.ti.com/support	



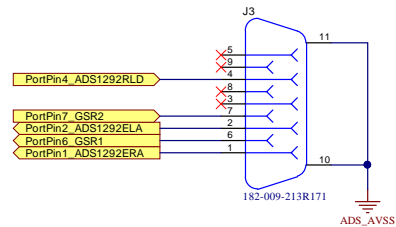
Power Distribution



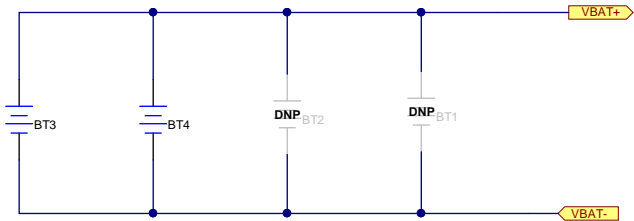
Texas Instruments and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. Texas Instruments and/or its licensors warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. Texas Instruments and its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.

Number: <u>TIDM-BIOSIGNMONITOR</u>		Designed for <u>Public Release</u>		Mod. Date: <u>5/11/2016</u>	
Number: _____		Project Title: <u>Multi-Parameter Bio-signal monitor</u>		 TEXAS INSTRUMENTS	
Rev: <u>E2</u>		Sheet Title: <u>Power distribution subcircuit</u>			
S/N Rev: <u>Version control disabled</u>		Assembly Variant: <u>MPMSB Project FR4</u>		Sheet <u>2</u> of <u>12</u>	
Drawn By: <u>Ricky Zepeda</u>		File: <u>MPMSB_PowerDistribution_SchDoc</u>		Size: <u>B</u>	
Engineer: <u>Ricky Zepeda</u>		Contact: <u>http://www.ti.com/suport</u>		http://www.ti.com © Texas Instruments 2014	

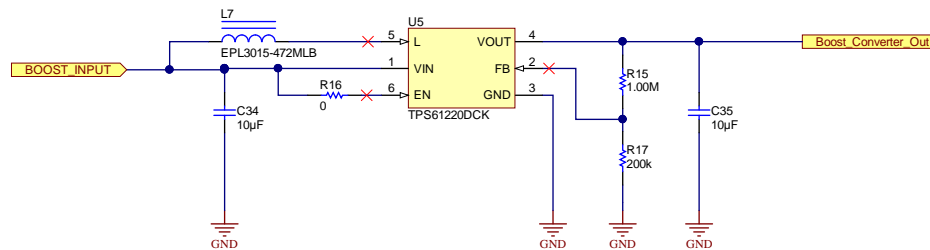




Current Protection Subcircuit



Boost Converter



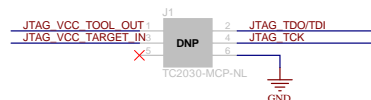
Texas Instruments and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. Texas Instruments and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. Texas Instruments and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.

Number: TIDM-BIOSIGNALMONITOR	Mod. Date: 5/11/2016
Designed for: Public Release	
Project: Multi-Parameter Bio-Signal monitor	
Sheet Title: Boost Converter Subcircuit	Sheet: 4 of 12
Size: A3	Schematic: 870PRJ_BasePN Rev: E2
Assembly Variant: MPBSM_Project_FR4	
File: MPBSM_BoostConverter.SchDoc	
Contact: http://www.ti.com/support	

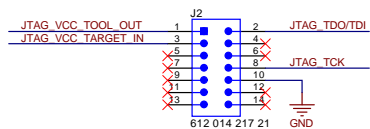


<http://www.ti.com>
©Texas Instruments 2014

JTAG SPY-BY-WIRE Plug of nails

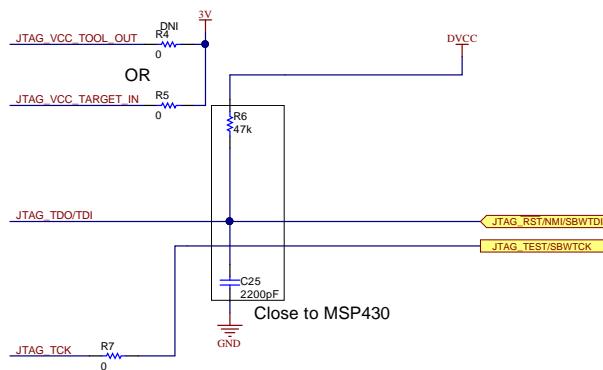


JTAG SPY-BY-WIRE Plug of nails

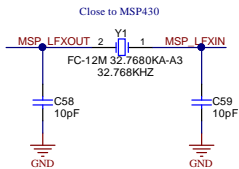
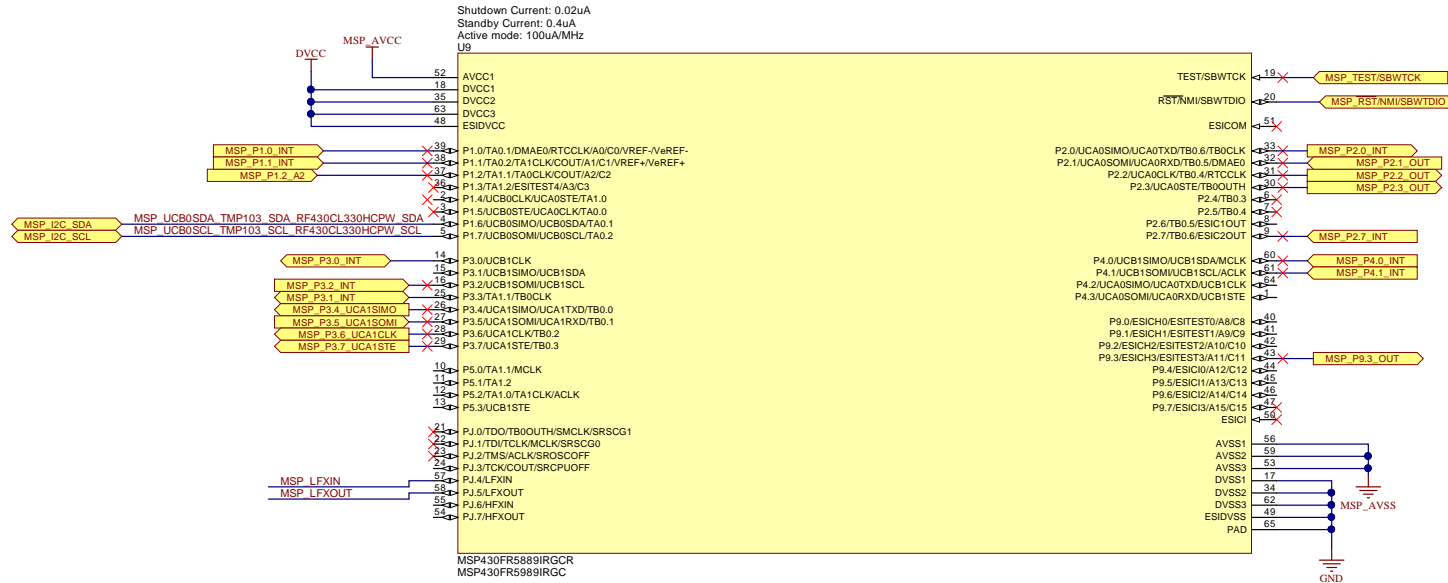
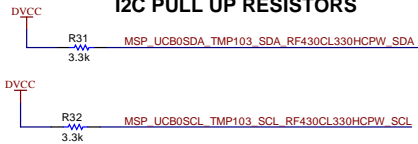


JTAG SPY-BY-WIRE FILTERING

Close to MSP430

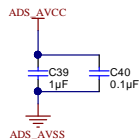


I2C PULL UP RESISTORS



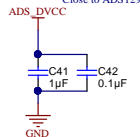
Decoupling Capacitors

Close to ADS1292R

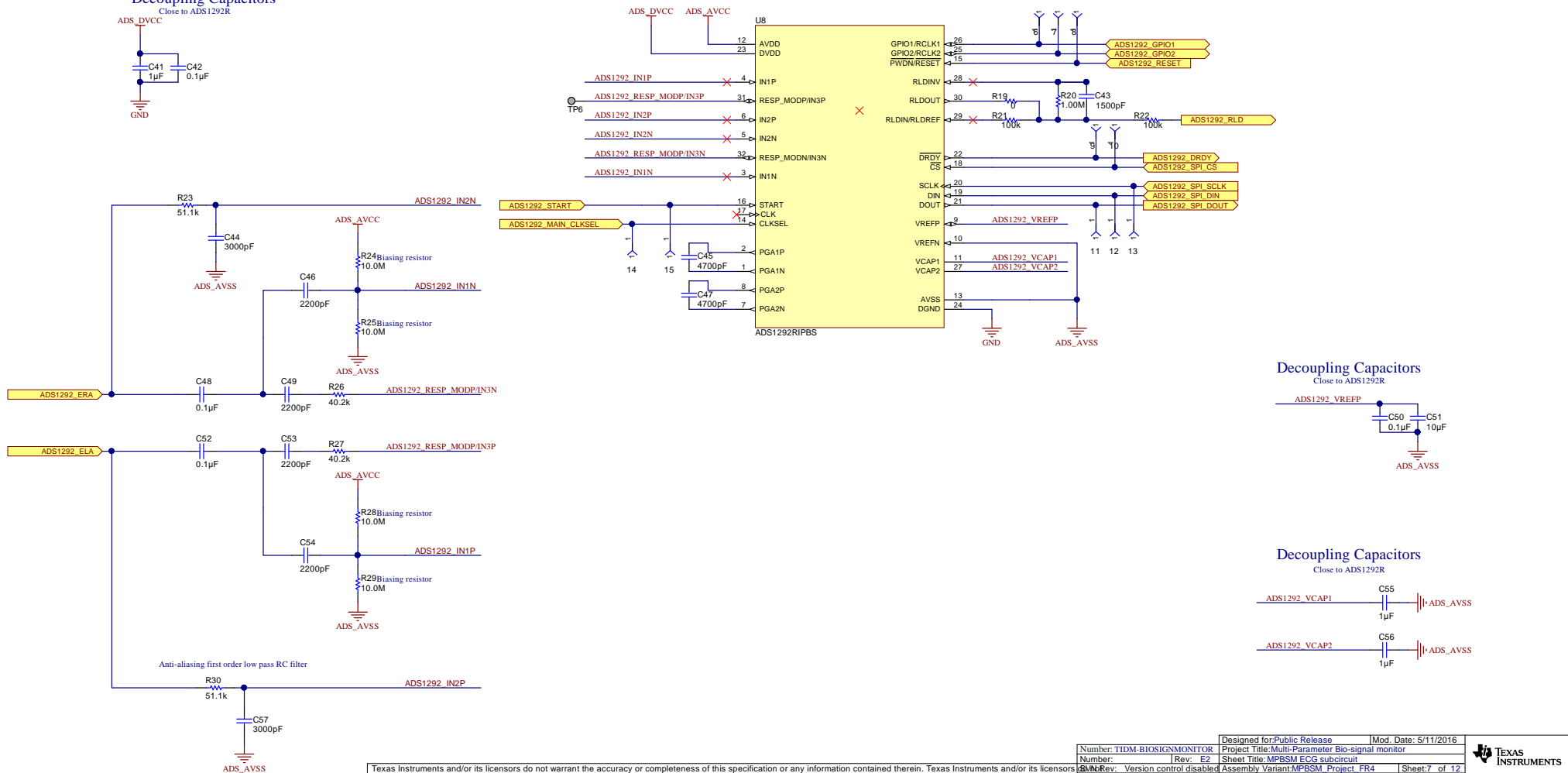


Decoupling Capacitors

Close to ADS1292R

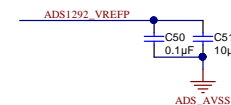


Two-lead ECG with Respiration Detection subcircuit



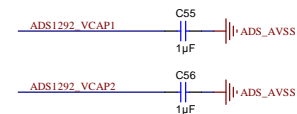
Decoupling Capacitors

Close to ADS1292R

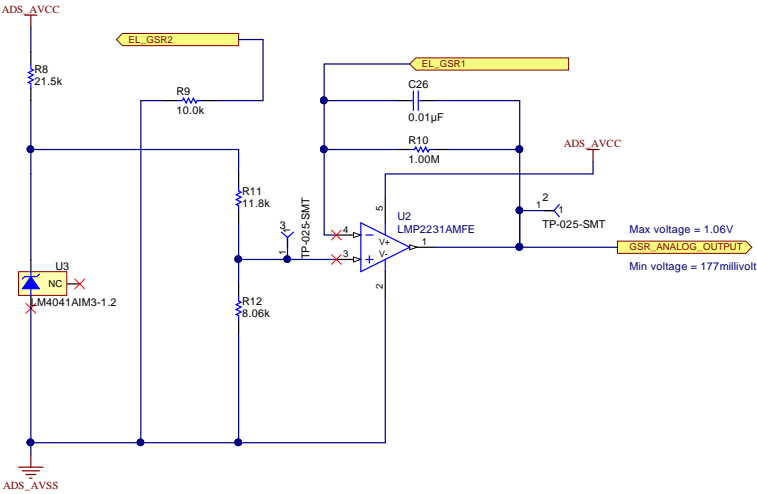


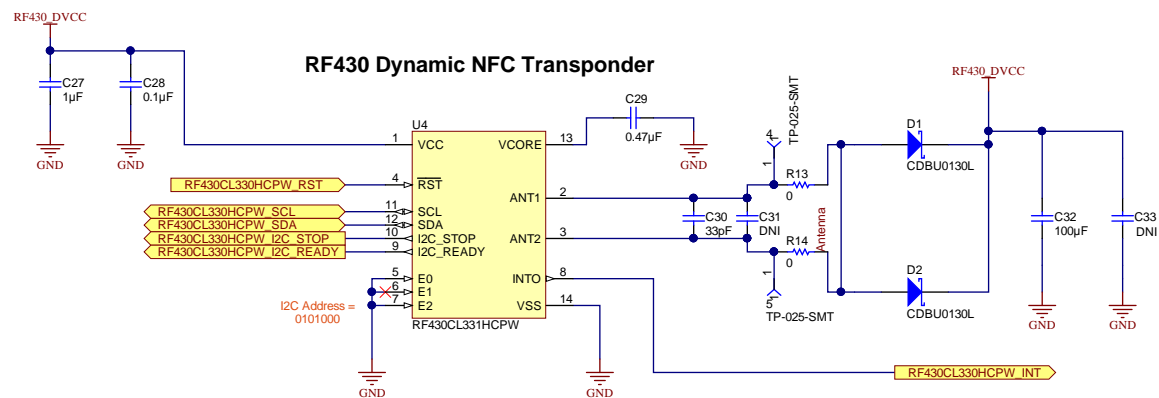
Decoupling Capacitors

Close to ADS1292R



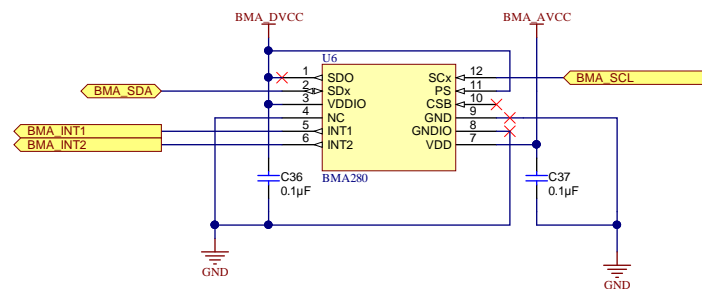
Galvanic Skin Response Subcircuit





Texas Instruments and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. Texas Instruments and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. Texas Instruments and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.

Number: TIDM-BIOSIGNMONITOR		Mod. Date: 5/11/2016	
Designed for: Public Release			
Project: Multi-Parameter Bio-signal monitor			
Sheet Title: NFC Transponder Subcircuit		Sheet: 9 of 12	
Size: A3		Schematic: 870PRJ_BasePN Rev. E2	
Assembly Variant: MPBSM_Project_FR4			
File: MPBSM_NFC_Trans_SchDoc			
Contact: http://www.ti.com/support			



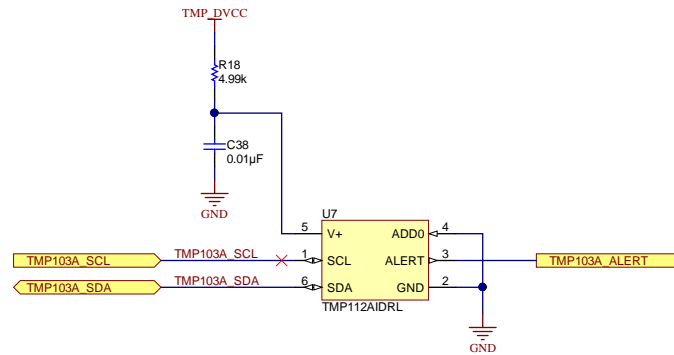
Texas Instruments and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. Texas Instruments and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. Texas Instruments and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.

Number: TIDM-BIOSIGNMONITOR		Mod. Date: 5/11/2016	
Designed for: Public Release			
Project: Multi-Parameter Bio-signal monitor			
Sheet Title: MPBSM Triaxial Subcircuit		Sheet: 10 of 12	
Size: A3		Schematic: 870PRJ BasePN Rev. E2	
Assembly Variant: MPBSM Project FR4			
File: MPBSM_BMA280.SchDot			
Contact: http://www.ti.com/support			



<http://www.ti.com>
©Texas Instruments 2014

Local Temperature Sensor



Texas Instruments and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. Texas Instruments and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. Texas Instruments and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.

Number: TIDM-BIOSIGNMONITOR		Mod. Date: 5/11/2016	
Designed for: Public Release			
Project: Multi-Parameter Bio-signal monitor			
Sheet Title: MPBSM Temperature Subcircuit		Sheet: 11 of 12	
Size: A3		Schematic: 870PRJ BasePN Rev: E2	
Assembly Variant: MPBSM Project FR4			
File: MPBSM_Temperature.SchDoc			
Contact: http://www.ti.com/support			



<http://www.ti.com>

©Texas Instruments 2014

