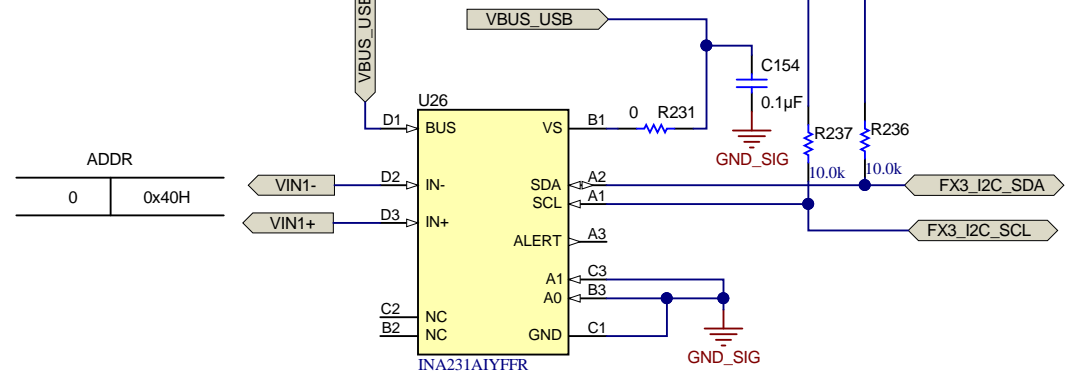
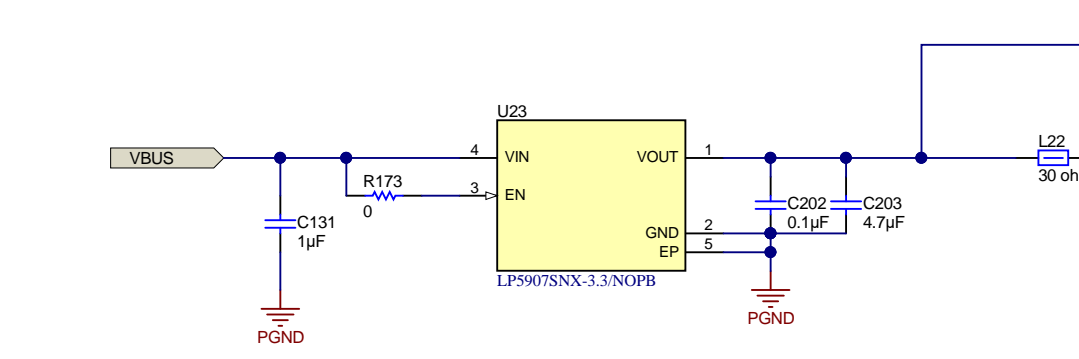


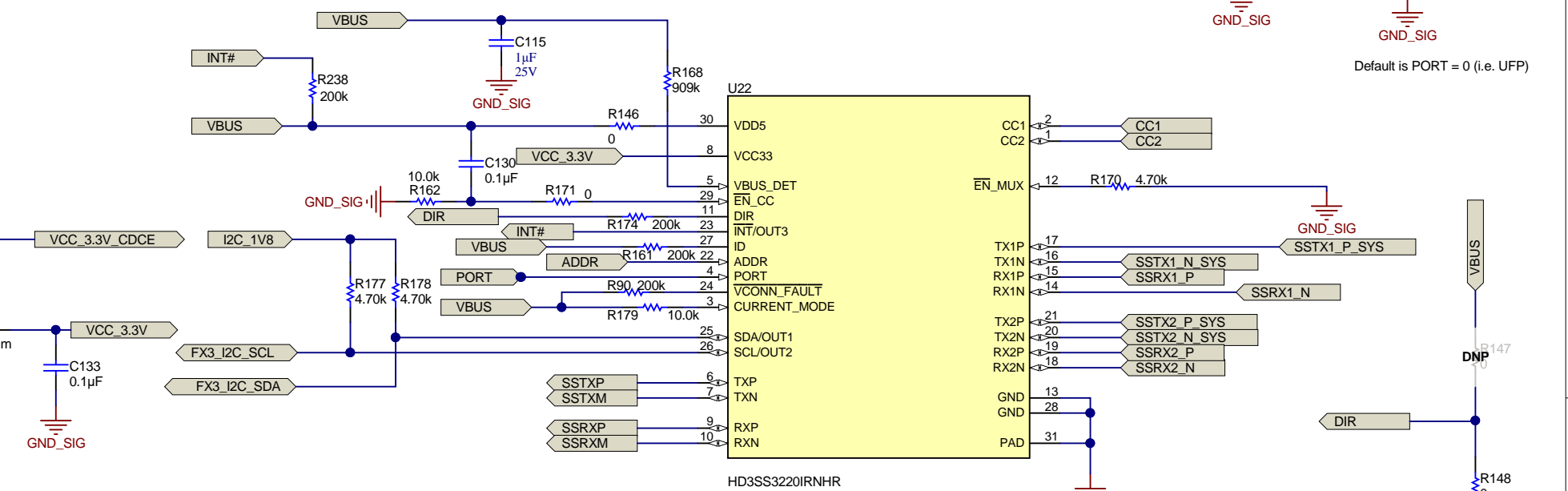
USB Type C Input Connector with ESD protection



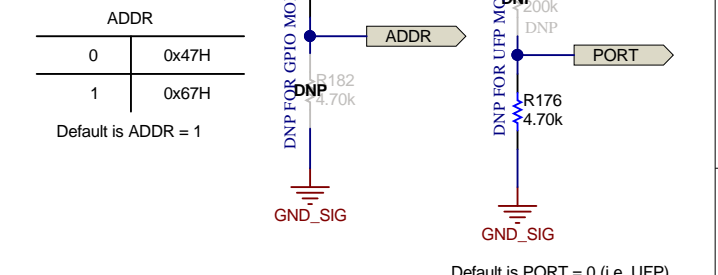
Total System Power Measurement

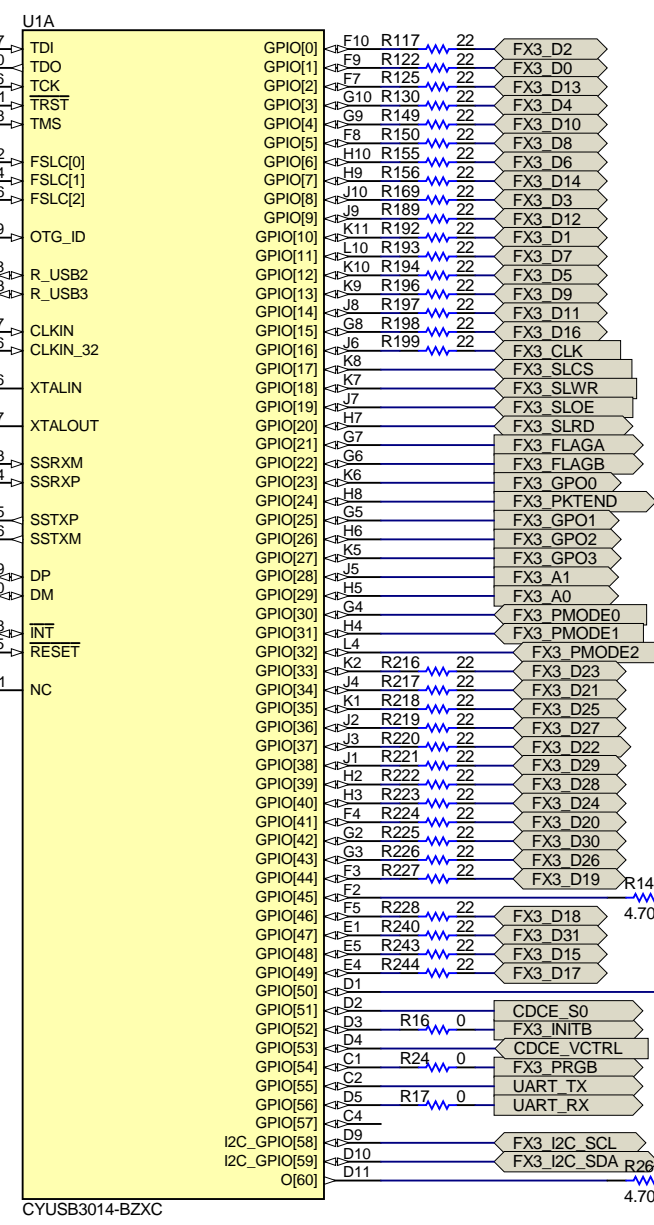
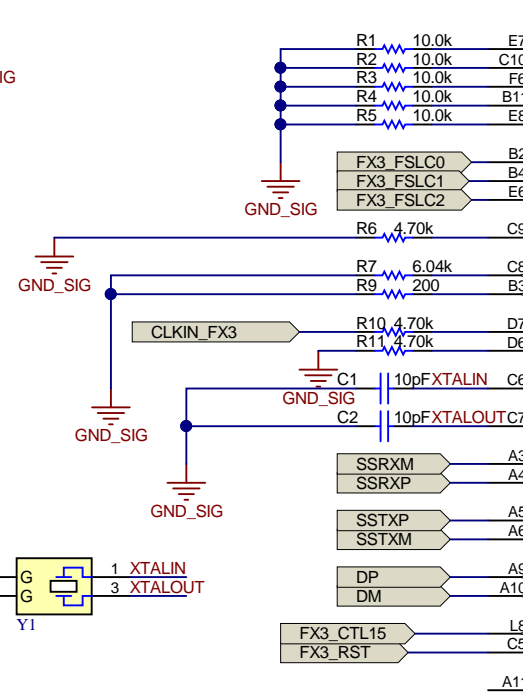
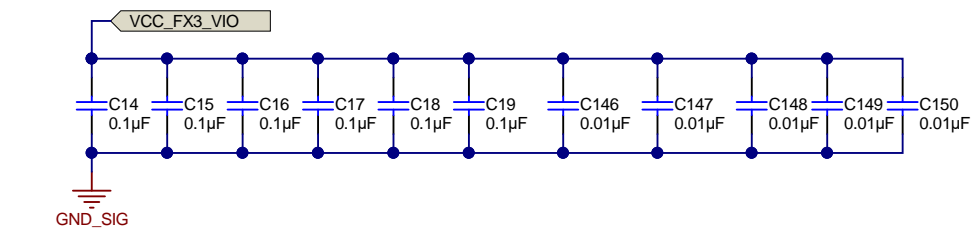
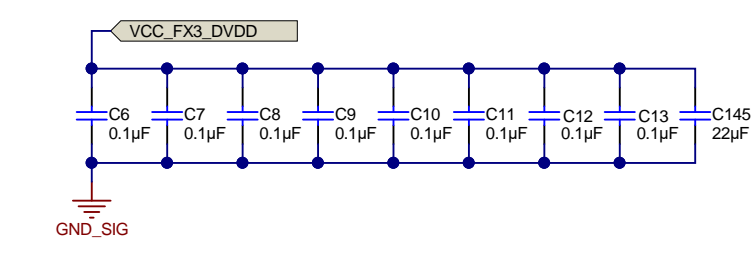
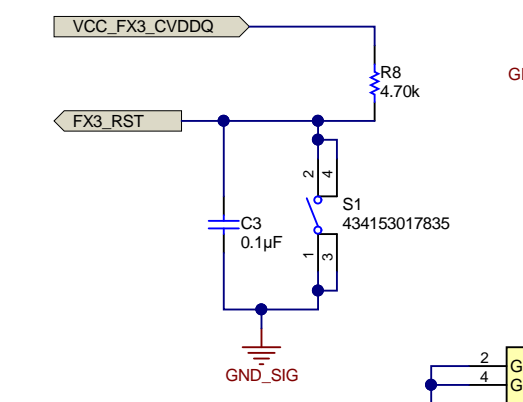
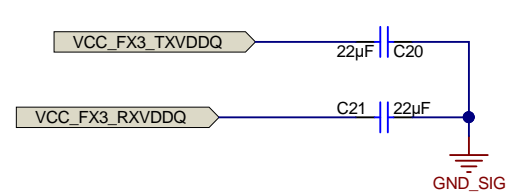


3.3 V supply for USB Controller

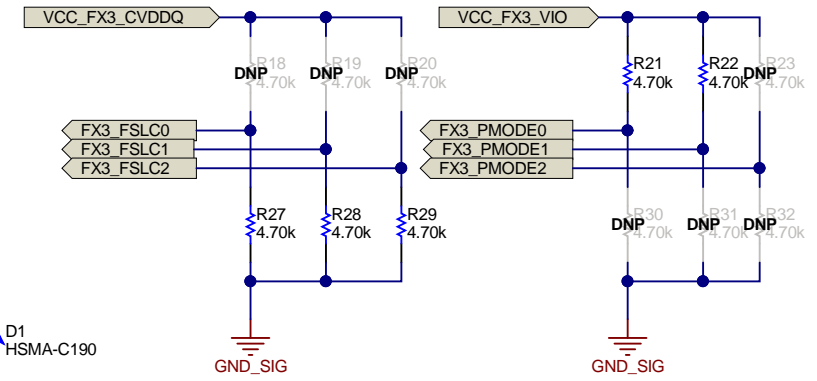
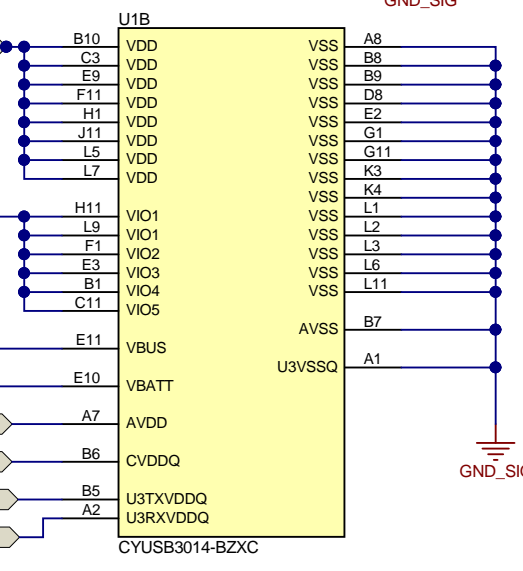
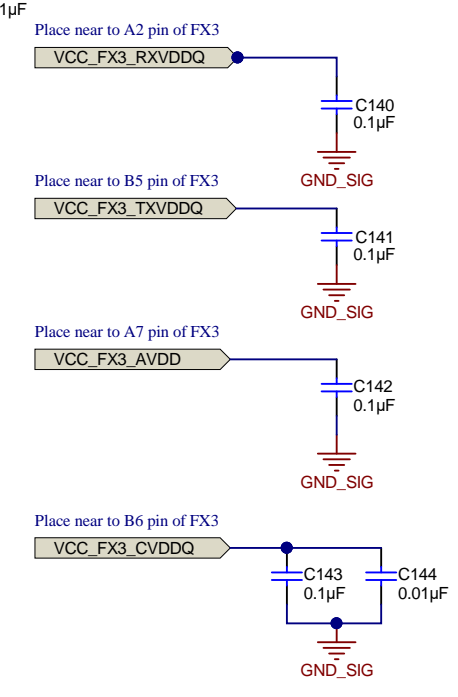
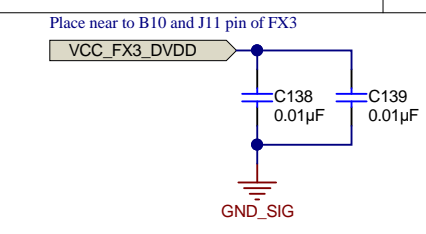
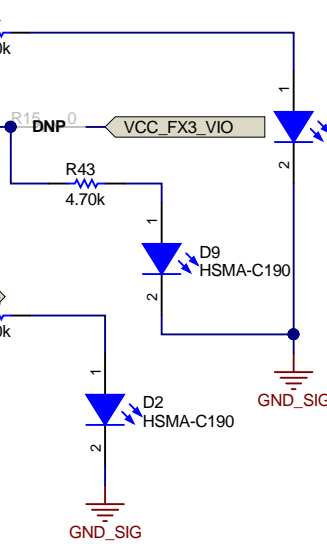


USB Type C Controller

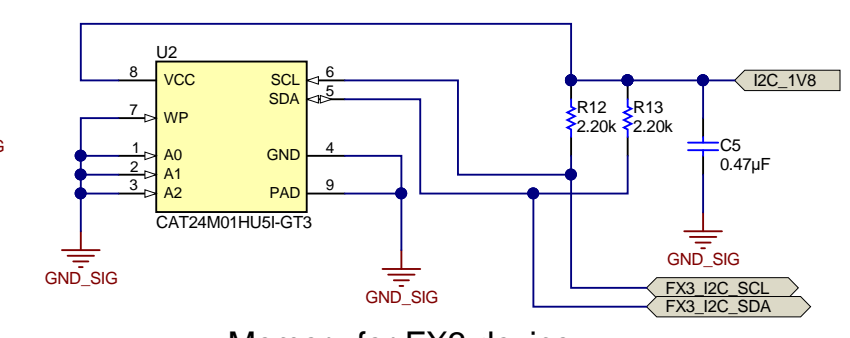




USB Type C Data Control

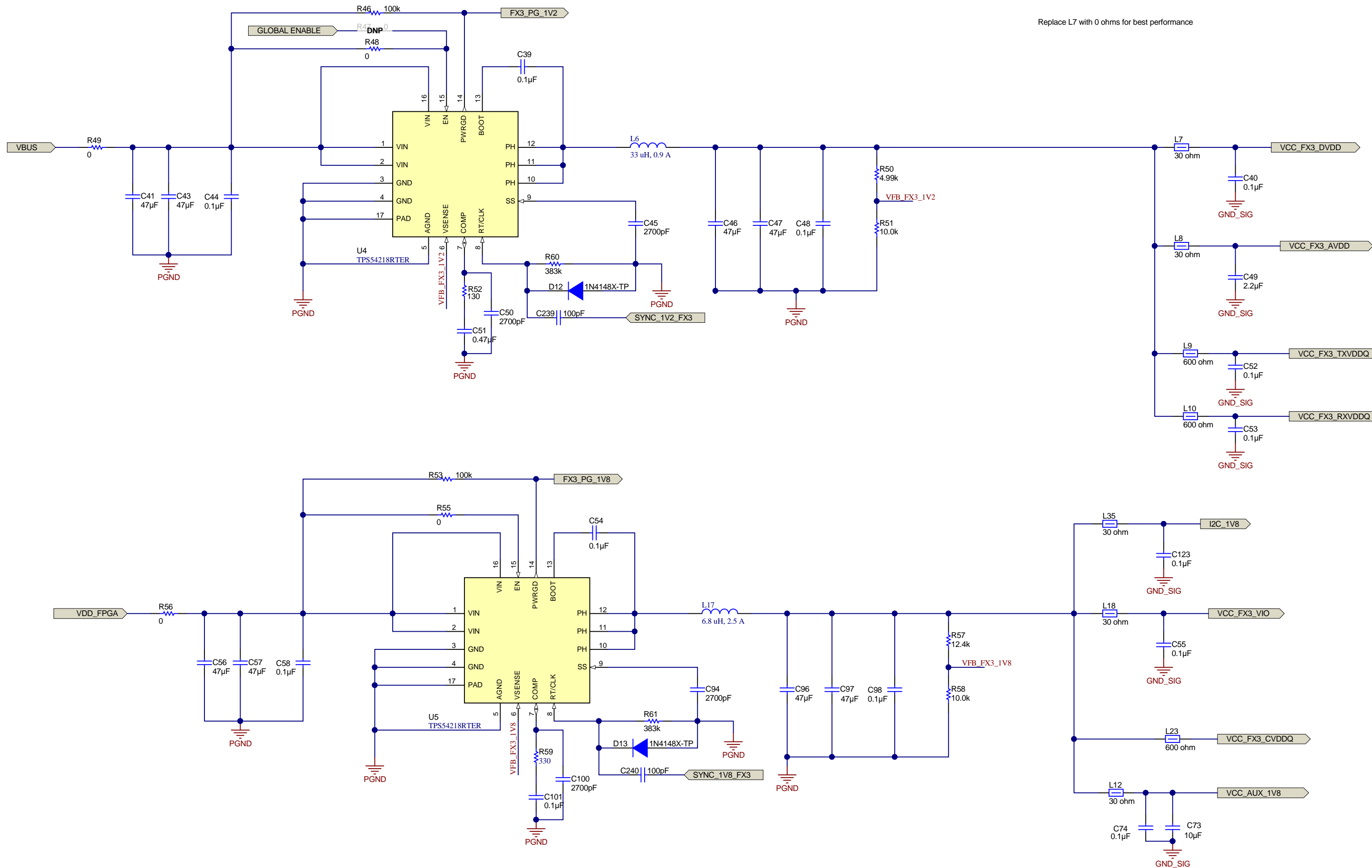


FX3 Configuration resistors



Memory for FX3 device

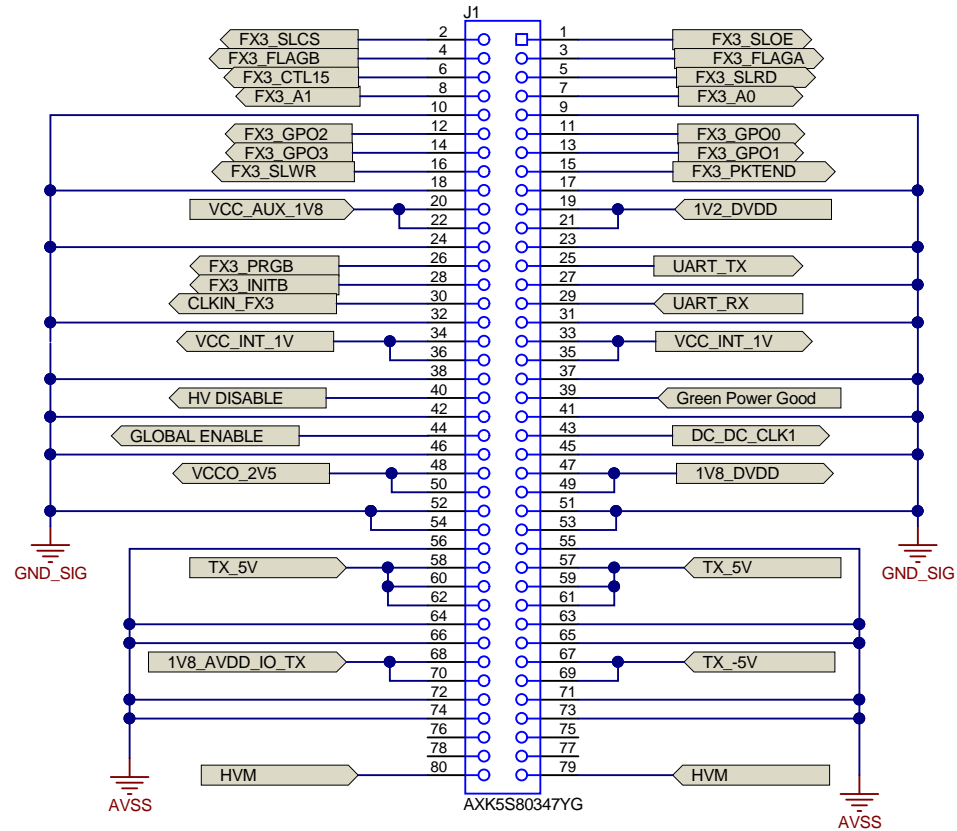
Texas Instruments and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. Texas Instruments and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular 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.



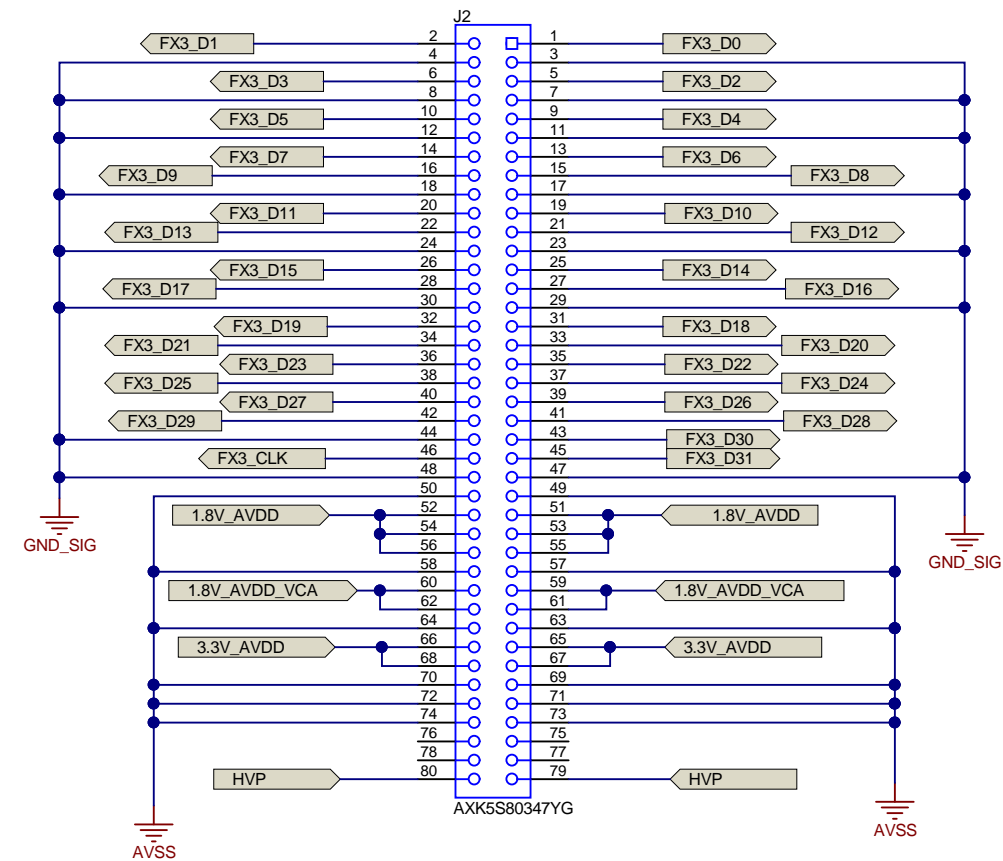
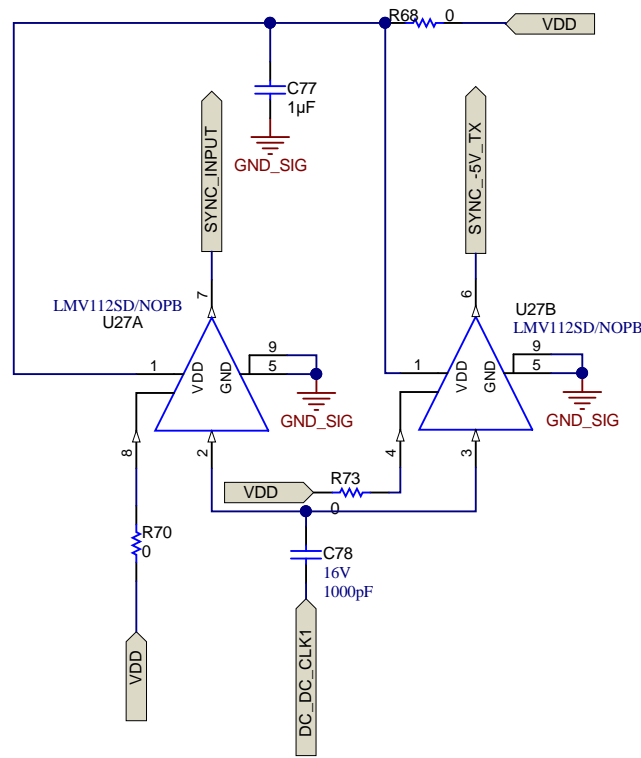
Replace L7 with 0 ohms for best performance

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.

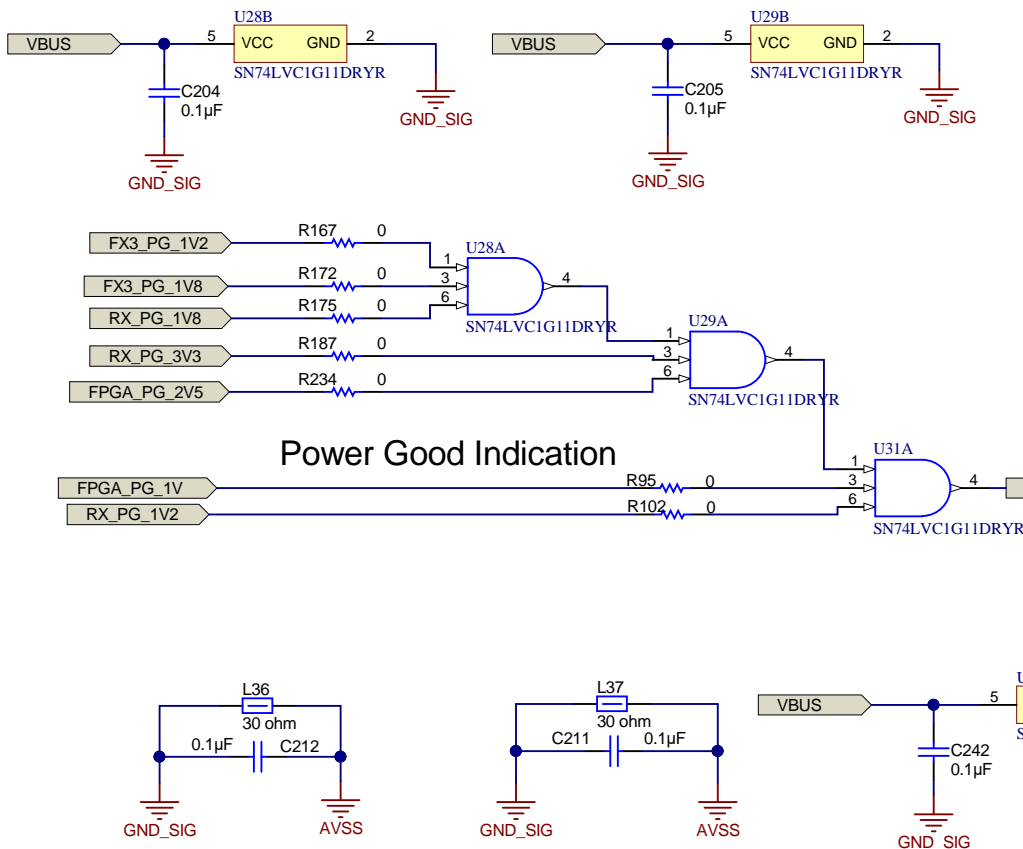
Orderable: ChangeMe!	Designed for: Public Release	Mod. Date: 9/19/2019
TID #: TIDA-010057	Project Title: Smart Probe Power Supply	
Number: TIDA-010057	Rev: E2	Sheet Title: FX3 Power Supply
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 4 of 12
Drawn By: Abhishek Vishwa	File: LVPS_FX3_Supply_SchDoc	Size: B
Engineer: Abhishek Vishwa	Contact: http://www.ti.com/support	



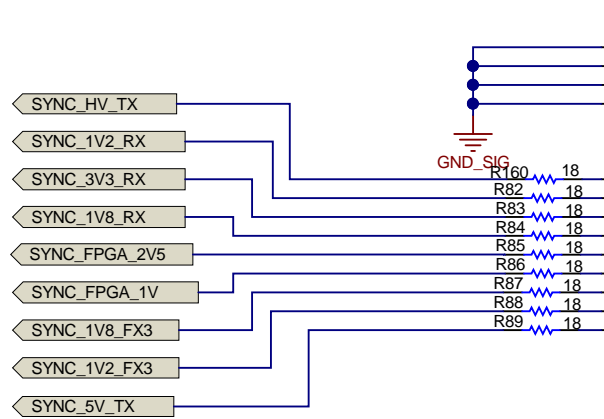
Input Power Connector



Input Data Connector

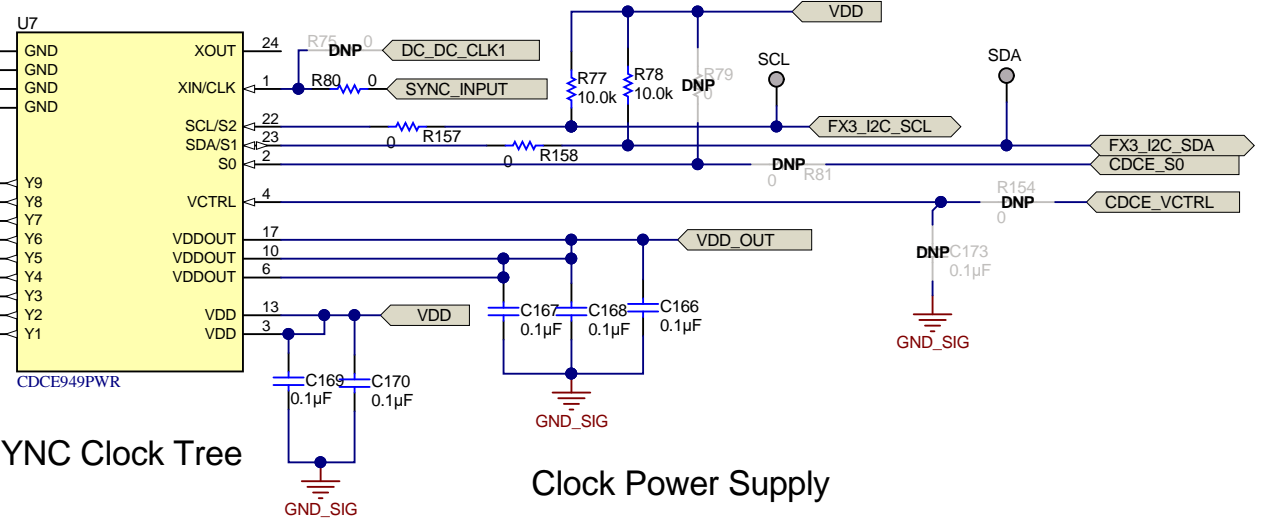


Power Good Indication



SYNC Clock Tree

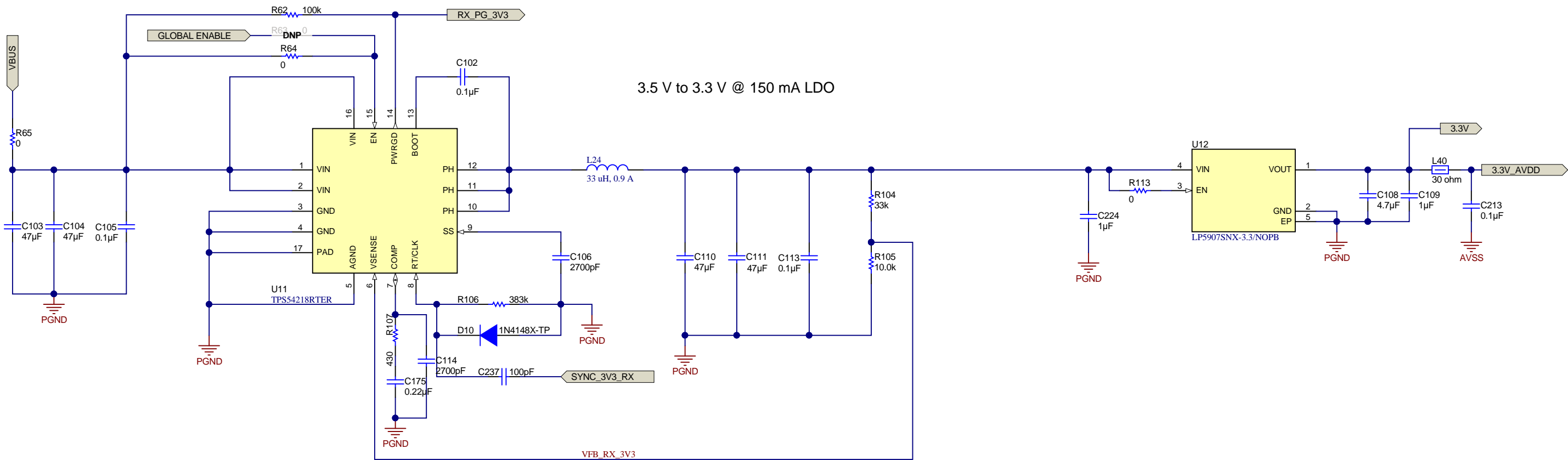
CLOCK SECTION



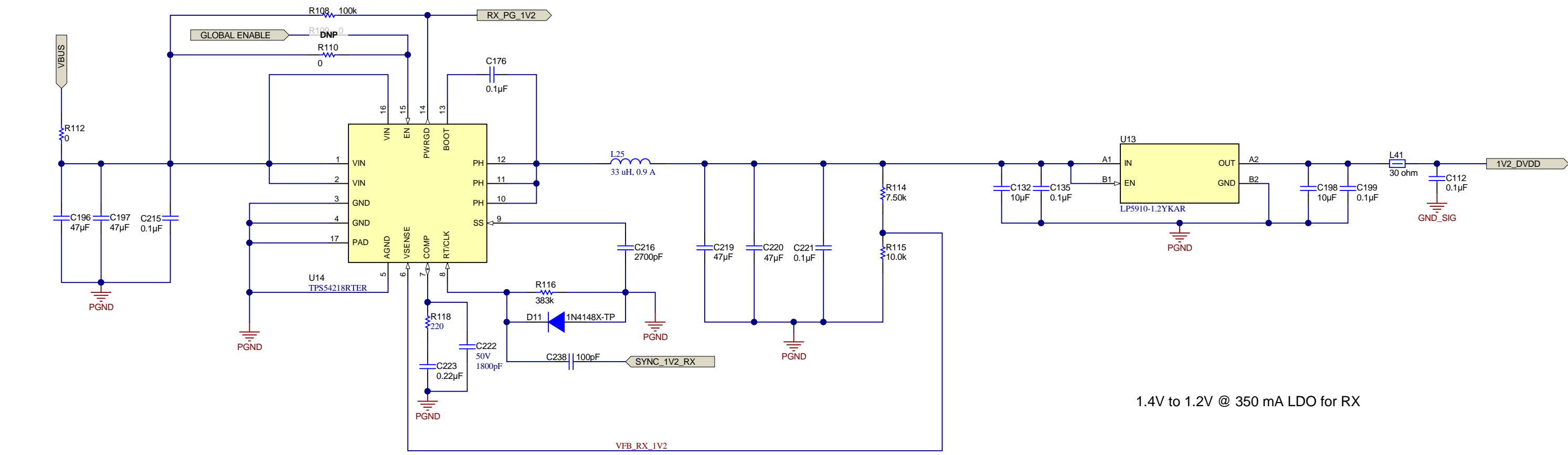
Clock Power Supply

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.

Orderable: ChangeMe!	Designed for: Public Release	Mod. Date: 8/26/2019
TID #: TIDA-010057	Project Title: Smart Probe Power Supply	
Number: TIDA-010057 Rev: E2	Sheet Title: Input Output Connectors	
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 5 of 12
Drawn By: Abhishek Vishwa	File: Input Output Connector_SchDoc	Size: B
Engineer: Abhishek Vishwa	Contact: http://www.ti.com/support	



3.5 V to 3.3 V @ 150 mA LDO



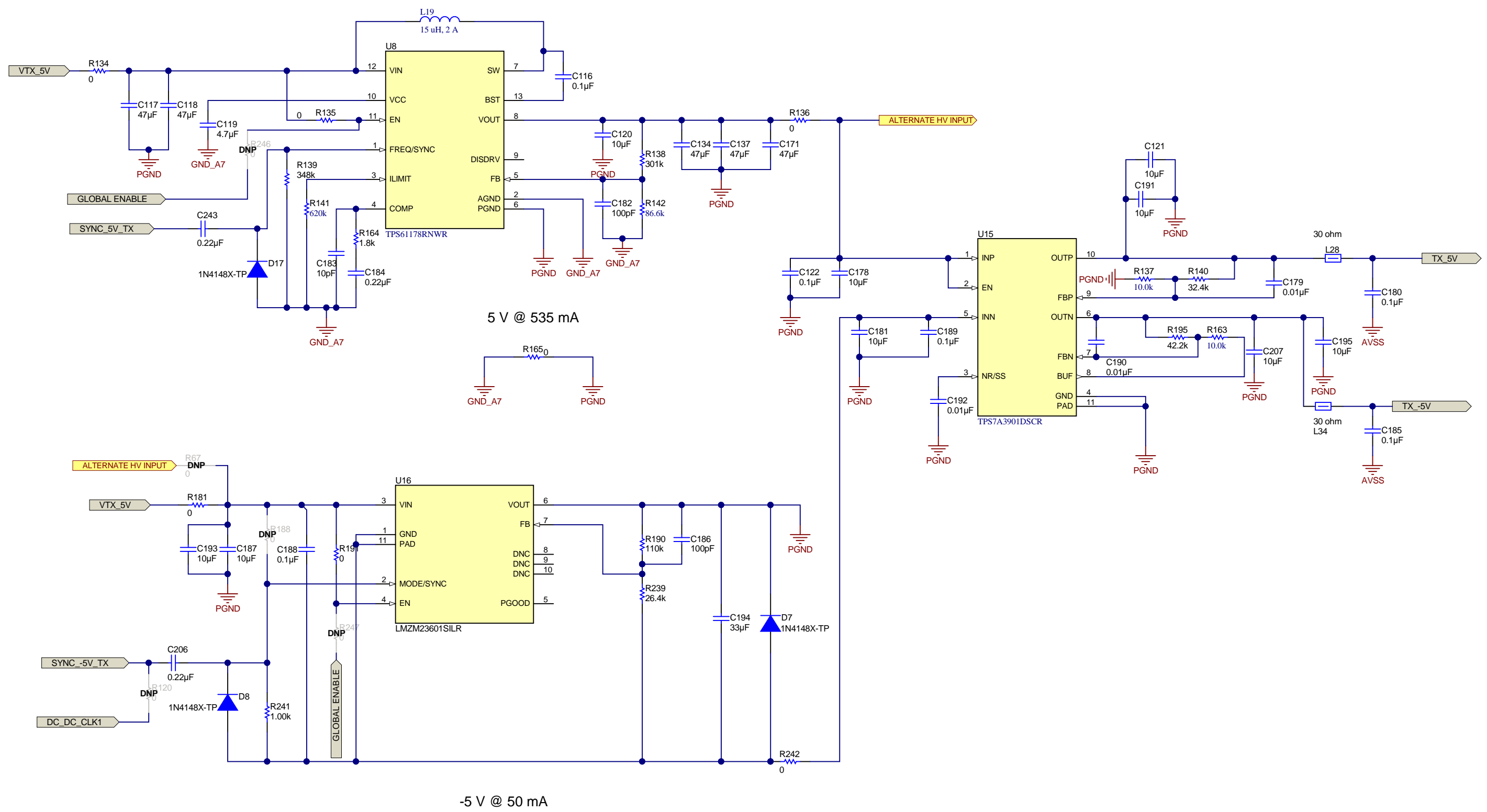
1.4V to 1.2V @ 350 mA LDO for RX

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.

Orderable: ChangeMe!	Designed for: Public Release	Mod. Date: 9/19/2019
TID #: TIDA-010057	Project Title: Smart Probe Power Supply	
Number: TIDA-010057	Rev: E2	Sheet Title: LVPS RX Supply 3V3 and 1V2
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 8 of 12
Drawn By: Abhishek Vishwa	File: LVPS RX Supply 3V3 and 1V2_1.SchDoc	Size: B
Engineer: Abhishek Vishwa	Contact: http://www.ti.com/support	



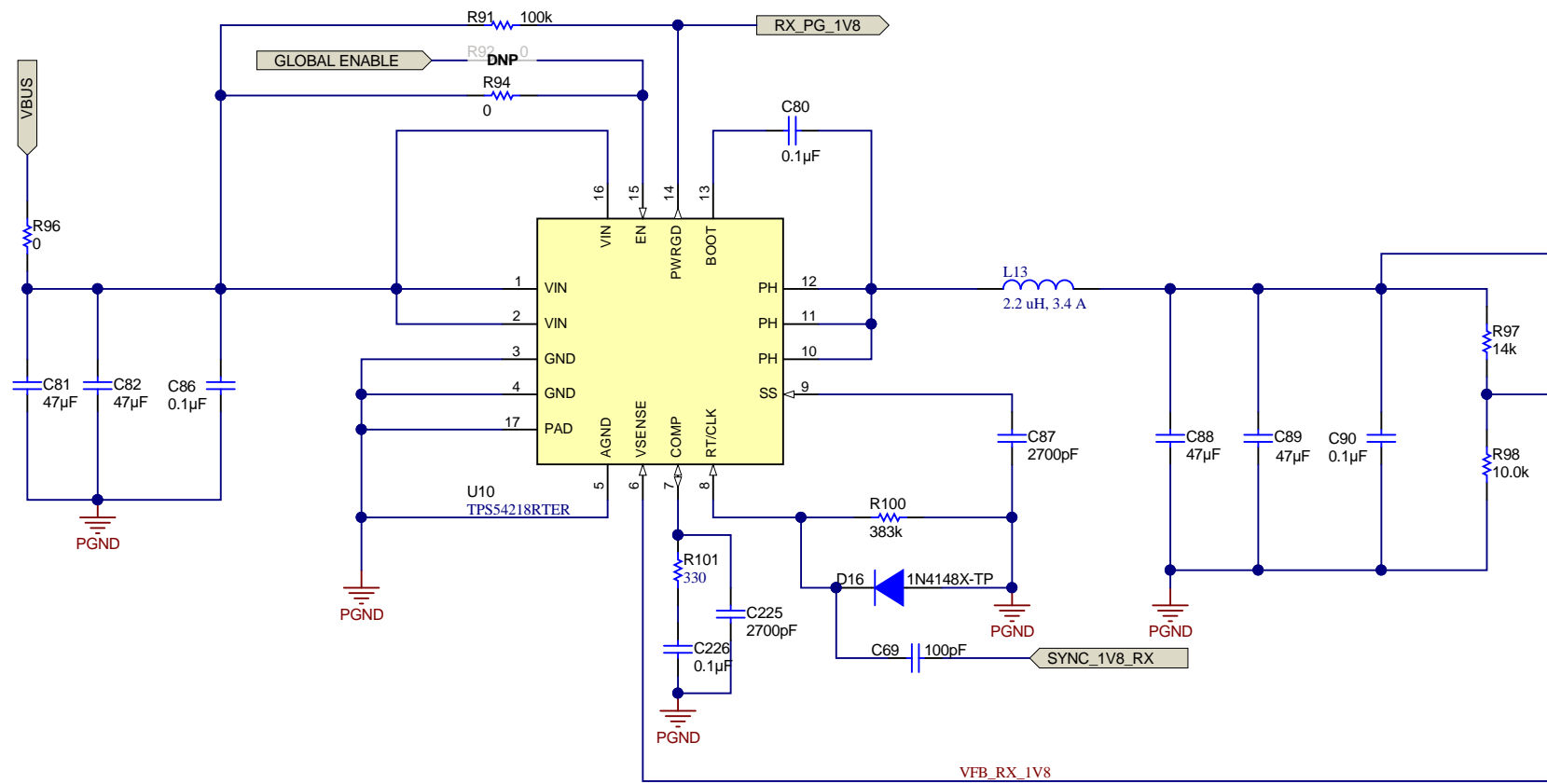
© Texas Instruments 2019



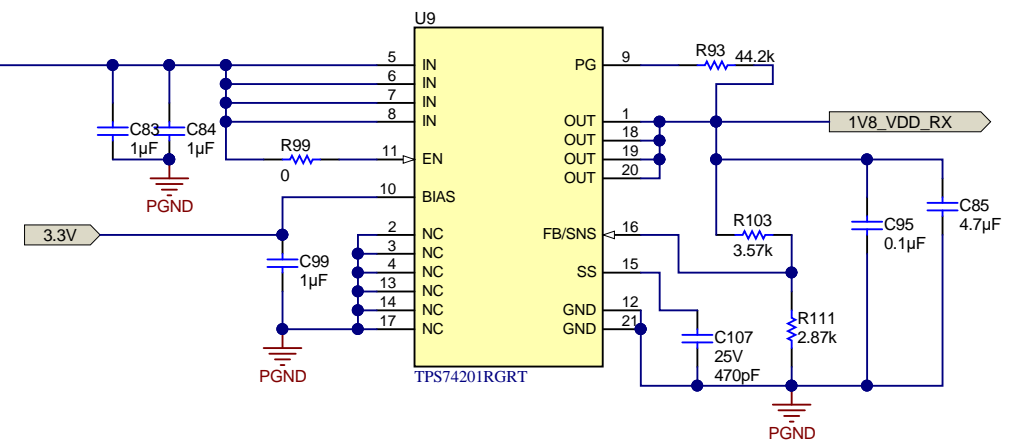
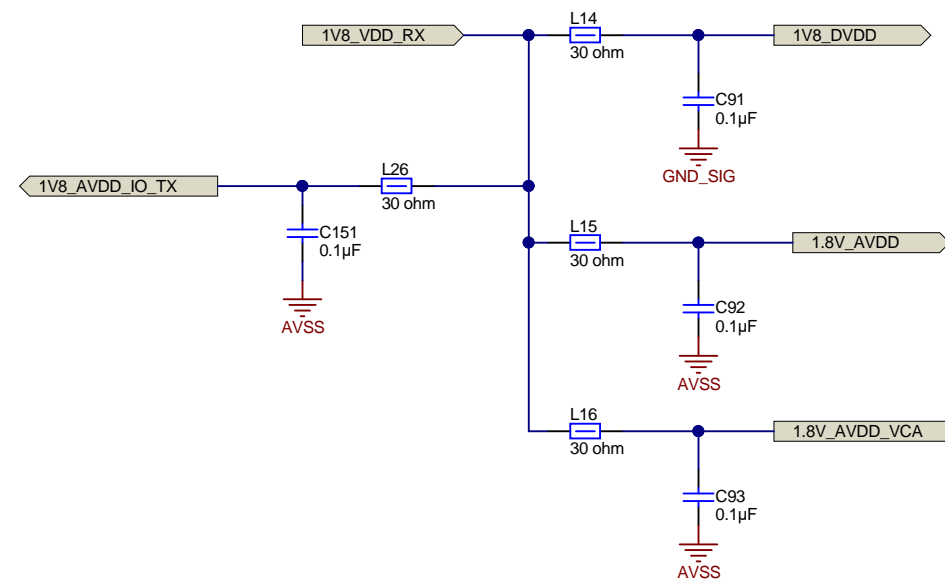
Texas Instruments and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. Texas Instruments and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular 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.

Orderable: ChangeMe!	Designed for: Public Release	Mod. Date: 9/19/2019
TID #: TIDA-010057	Project Title: Smart Probe Power Supply	
Number: TIDA-010057	Rev: E2	Sheet Title: LVPS RX Supply 1V8
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 9 of 12
Drawn By: Abhishek Vishwa	File: LVPS TX Supply 5V and m5V.SchDoc	Size: B
Engineer: Abhishek Vishwa	Contact: http://www.ti.com/support	





2 V @ 1 A RX Supply



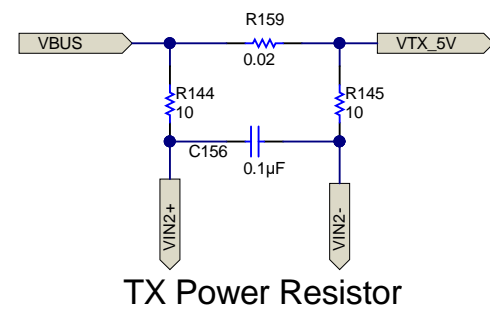
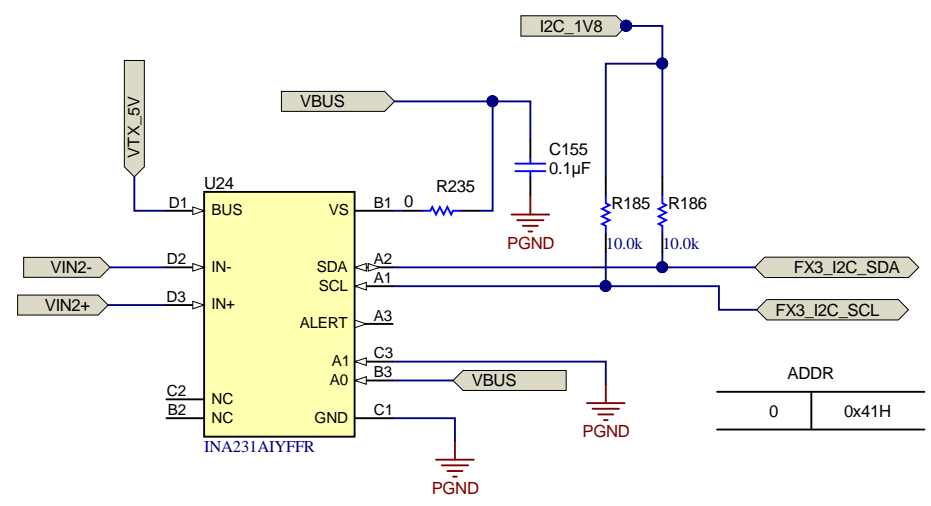
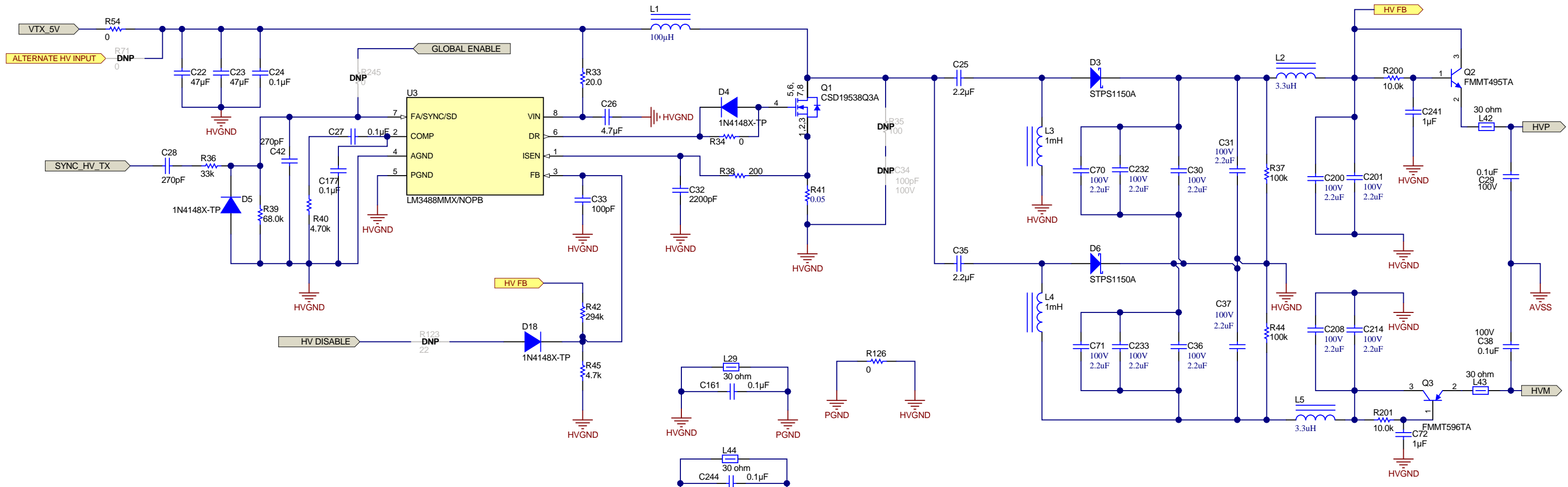
2 V to 1.8V @ 1 A LDO for RX Supply

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.

Orderable: ChangeMe!	Designed for: Public Release	Mod. Date: 9/19/2019
TID #: TIDA-010057	Project Title: Smart Probe Power Supply	
Number: TIDA-010057	Rev: E2	Sheet Title: LVPS RX Supply 1V8
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 9 of 12
Drawn By: Abhishek Vishwa	File: LVPS RX Supply 1V8.SchDoc	Size: B
Engineer: Abhishek Vishwa	Contact: http://www.ti.com/support	



© Texas Instruments 2019



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.



LOGO6



LOGO4

PCB Number: TIDA-010057
PCB Rev: E2

PCB LOGO
Pb-Free Symbol

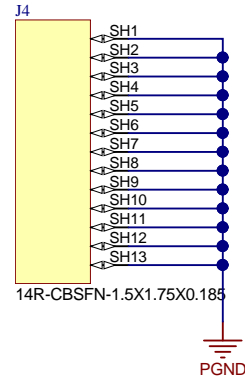
PCB LOGO
FCC disclaimer

PCB LOGO
Logo5

PCB LOGO
Logo10

PCB LOGO
WEEE logo

Variant/Label Table	
Variant	Label Text
001	ChangeMe!
002	ChangeMe!



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.

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to TI's Terms of Sale (www.ti.com/legal/termsofsale.html) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2020, Texas Instruments Incorporated