

1

2

3

4

5

6

Revision History

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

Page 2

BLOCK DIAGRAM

Page 3

24V E-Fuse + Step down Regulator + 24V to 5V Simple Switcher-0.6A

Page 4

Step-Down Converter with DCS-Control

Page 5

Buck Step Down Regulator

Page 6

Buck Step Down Regulator

Orderable: N/A

TID #: 010055

Number: TIDA-010055-E1

SVN Rev: Not in version control

Drawn By: Sreenivasa

Engineer: Sreenivasa

Designed for: Public Release

Project Title: TIDA-010055-E1\_Non-ISO\_Communication\_PS

Sheet Title: Cover Sheet

Assembly Variant: 001

File: TIDA-010055-E1\_Non-ISO\_Communication\_PSSizeB Sheet Pdf


Contact: http://www.ti.com/support

Mod. Date: 10/18/2018

Sheet: 1 of 7

Printed On: 10/18/2018

© Texas Instruments 2018

TEXAS  
INSTRUMENTS

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.

1

2

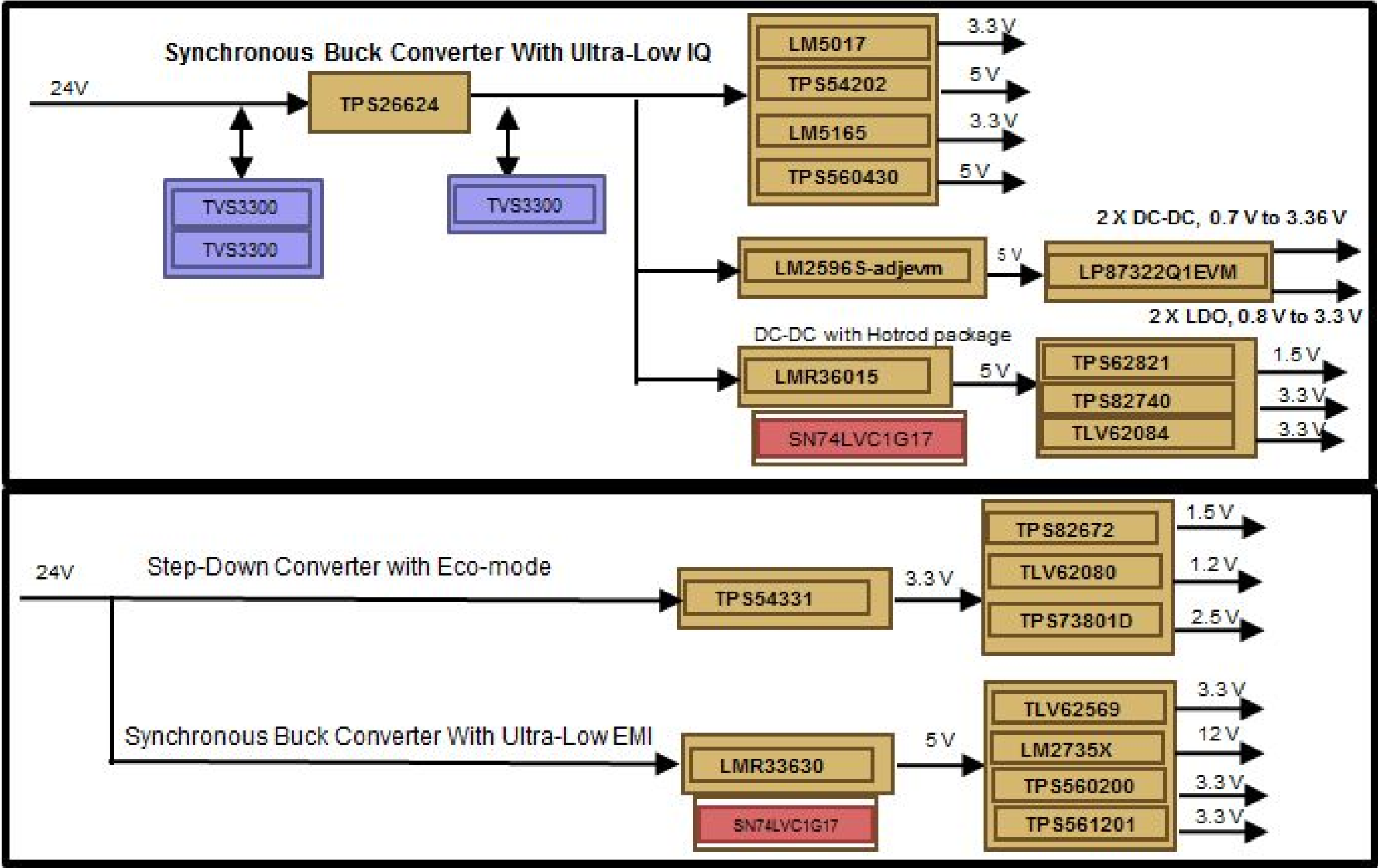
3

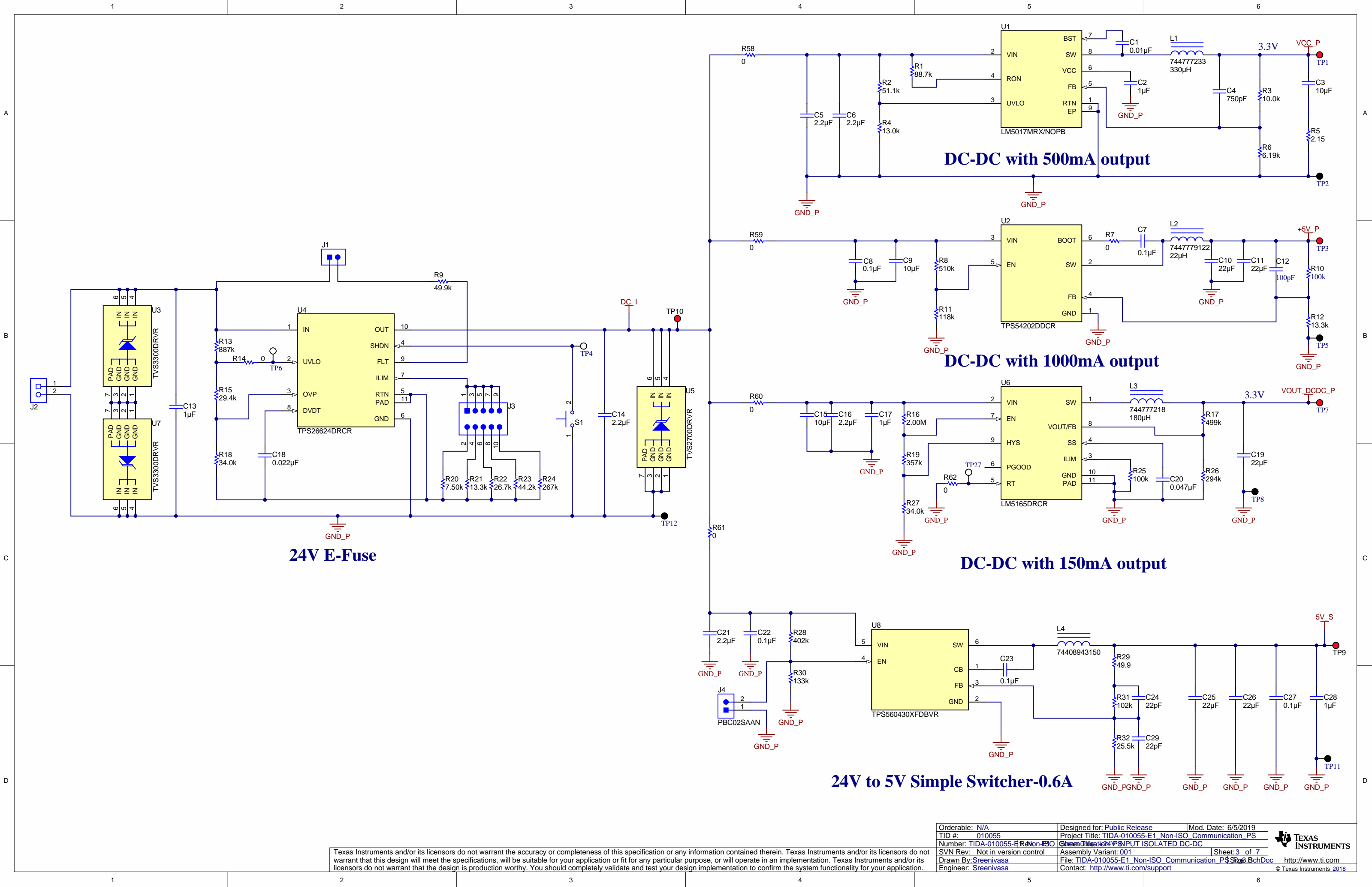
4

5

6

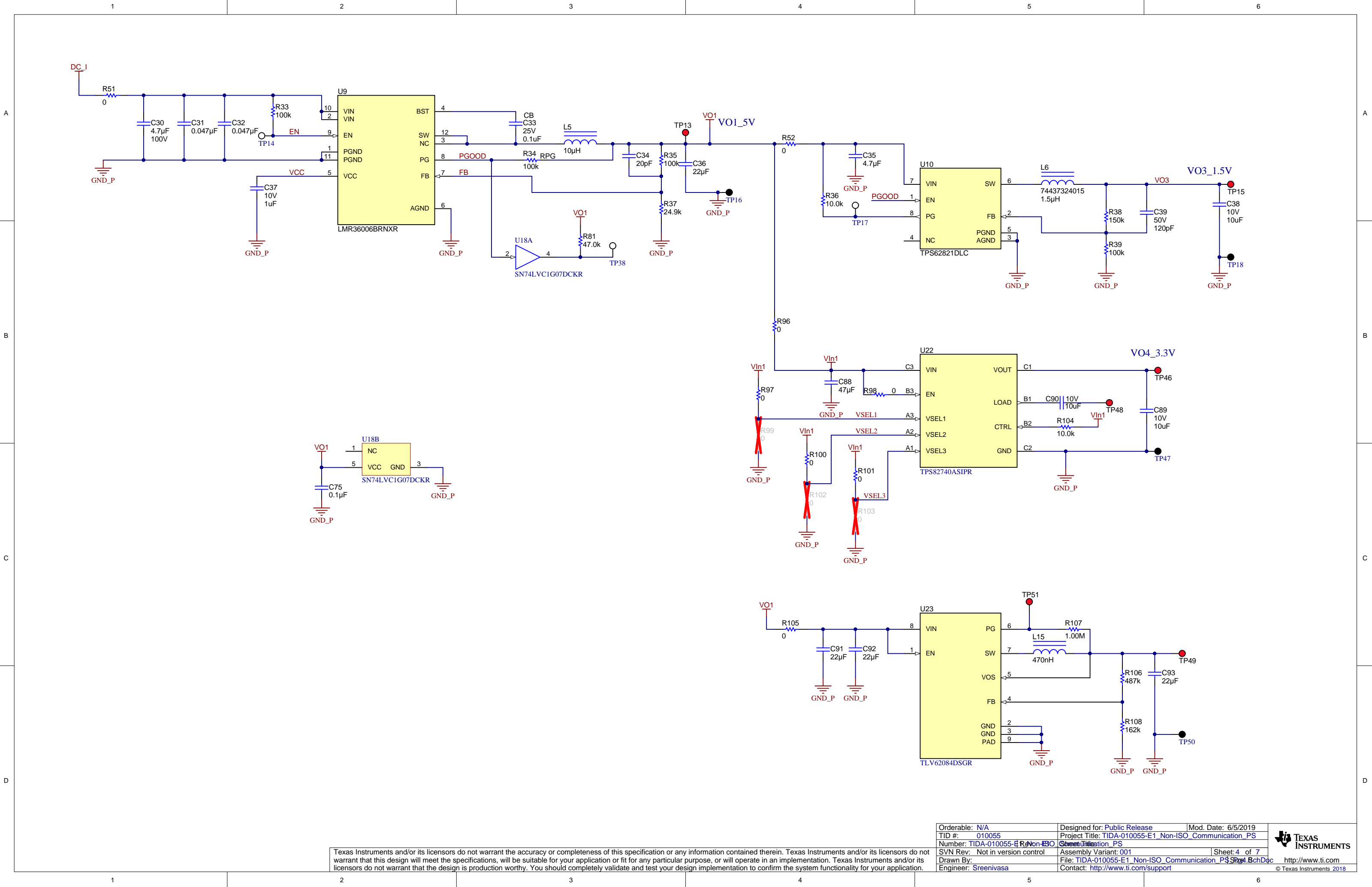
Communication module power supply

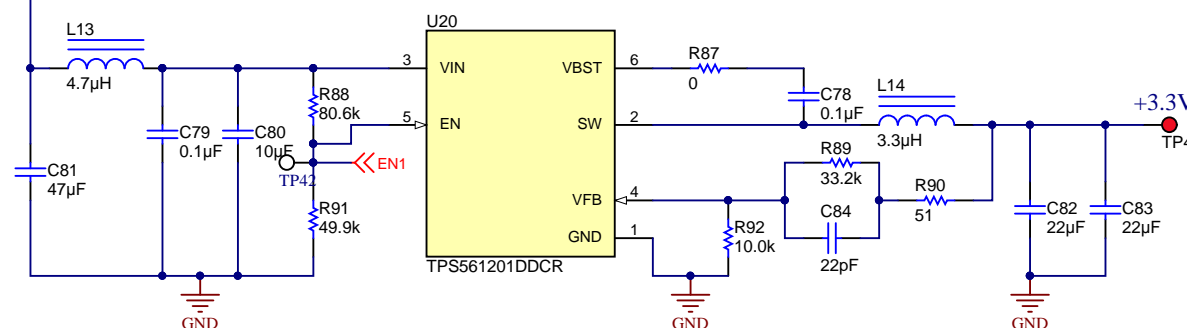
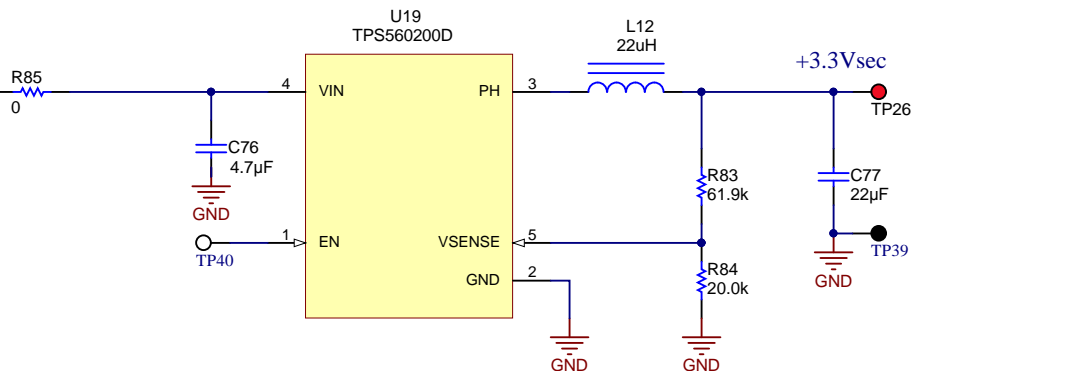
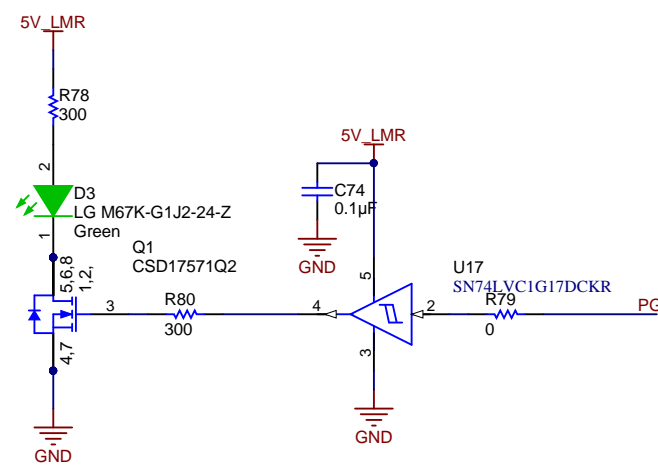
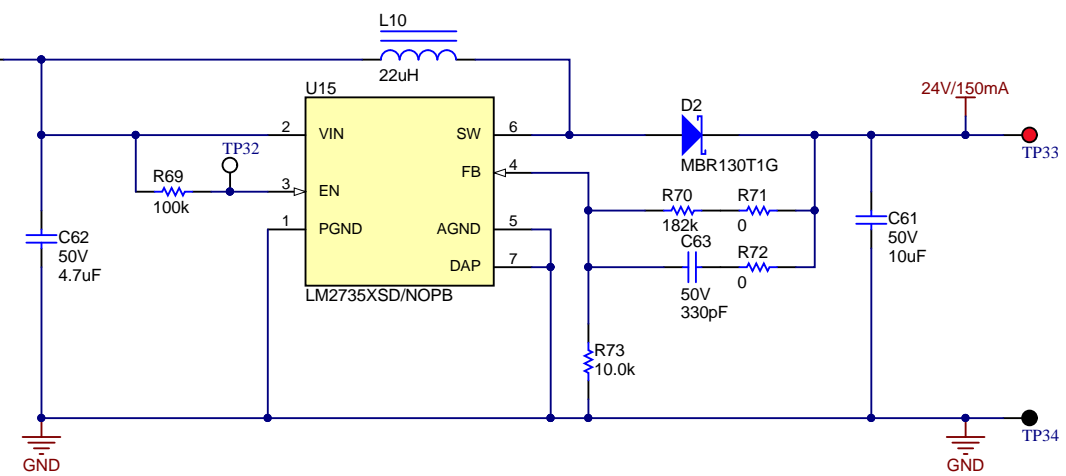
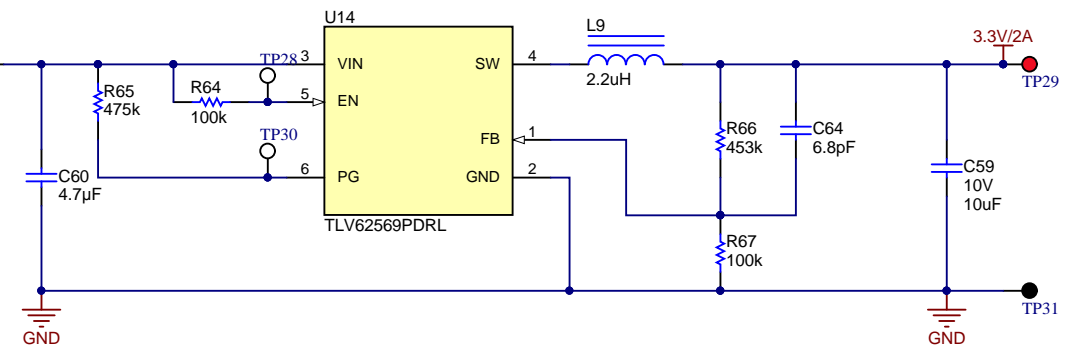
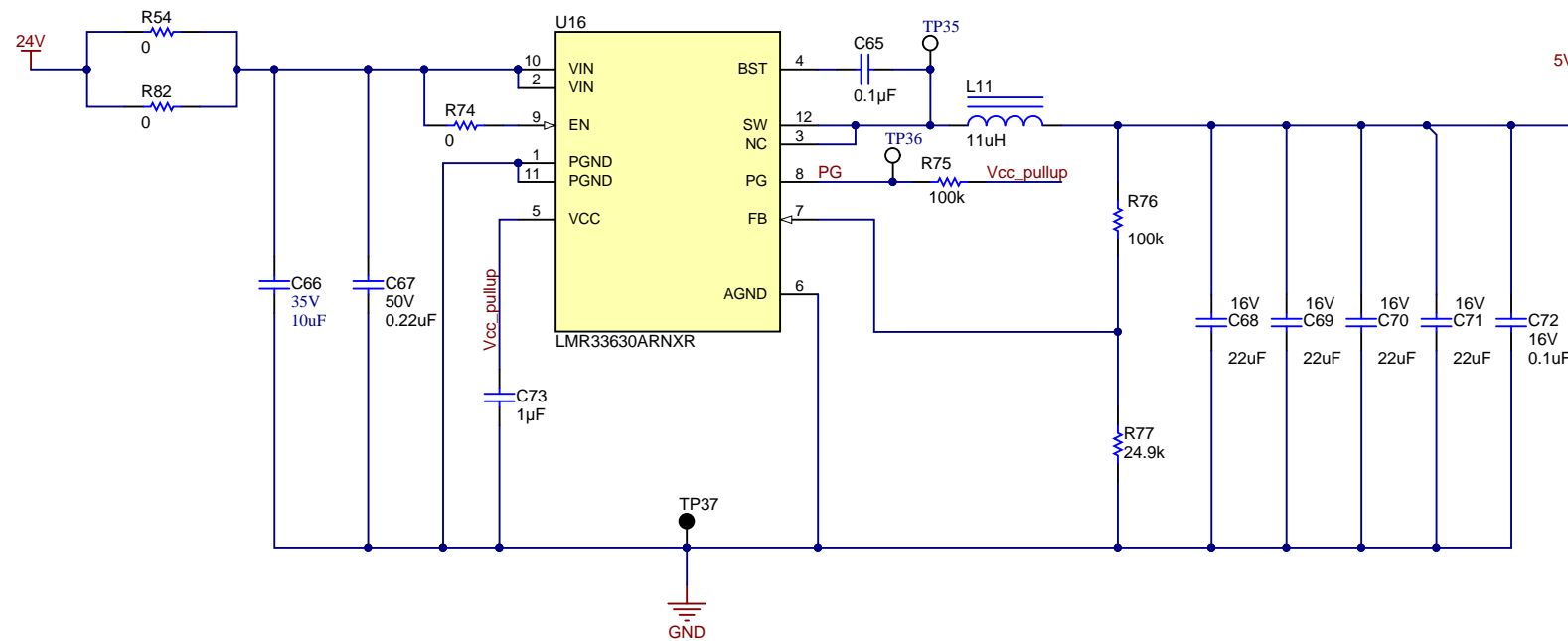




Texas Instruments and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. Texas Instruments and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular 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: N/A	Designed for: Public Release	Mod. Date: 6/5/2019
TID #: 010055	Project Title: TIDA-010055-E1_Non-ISO_Communication_PS	
Number: TIDA-010055-E1_Non-ISO_Communication_PS	Sheet Title: 24V to 5V INPUT ISOLATED DC-DC	
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 3 of 7
Drawn By: Sreenivasa	File: TIDA-010055-E1_Non-ISO_Communication_PS_SchDoc	
Engineer: Sreenivasa	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	

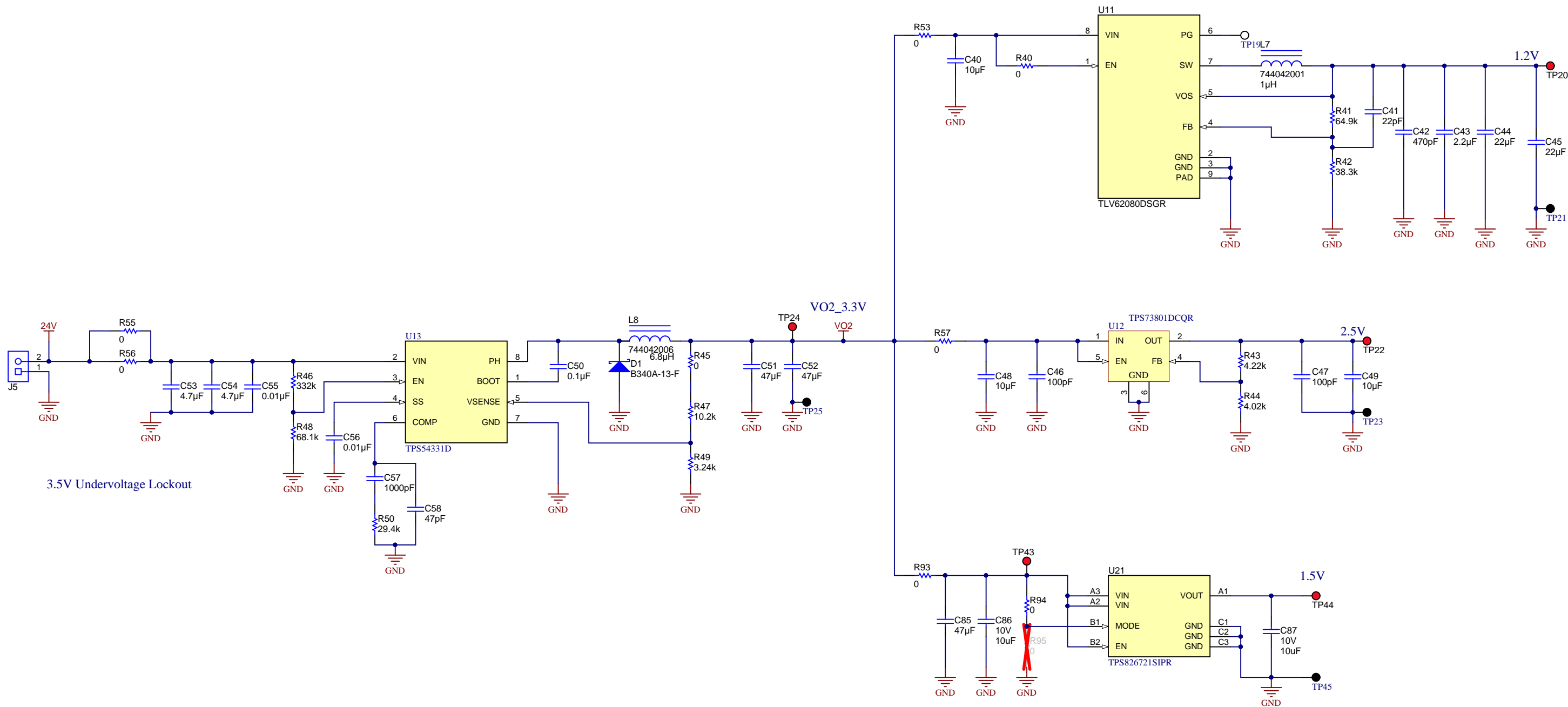




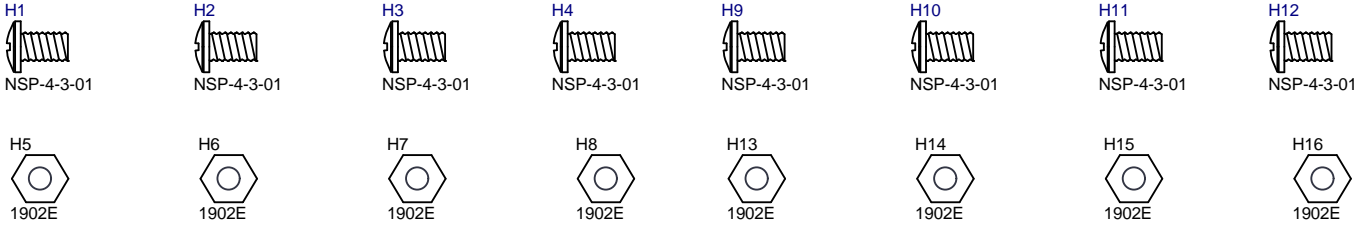
Texas Instruments and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. Texas Instruments and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular 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: N/A	Designed for: Public Release	Mod. Date: 6/5/2019
TID #: 010055	Project Title: TIDA-010055-E1_Non-ISO_Communication_PS	
Number: TIDA-010055-E1_Non-ISO_Communication_PS	Assembly Variant: 001	Sheet: 5 of 7
SVN Rev: Not in version control	File: TIDA-010055-E1_Non-ISO_Communication_PS_SchDoc	http://www.ti.com
Drawn By: Sreenivasa	Contact: http://www.ti.com/support	© Texas Instruments 2018





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.



PCB Number: TIDA-010055-E1\_Non-ISO\_Communication\_PS  
PCB Rev: E1

Logo1  
PCB  
LOGO  
WEEE logo

PCB  
LOGO  
Pb-Free Symbol

PCB  
LOGO  
FCC disclaimer

PCB  
LOGO  
Logo4

LBL1  
PCB Label  
Size: 0.65" x 0.20 "

ZZ1  
Label Assembly Note  
This Assembly Note is for PCB labels only

Label Table	
Variant	Label Text

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.

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: N/A	Designed for: Public Release	Mod. Date: 1/30/2019
TID #: 010055	Project Title: TIDA-010055-E1_Non-ISO_Communication_PS	
Number: TIDA-010055-E1_Non-ISO_Communication_PS	Sheet Title: TIDA-010055-E1_Non-ISO_Communication_PS	
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 7 of 7
Drawn By: Sreenivasa	File: TIDA-010055-E1_Non-ISO_Communication_PS_S2A-B-Hardware-RevD.txd	
Engineer: Sreenivasa	Contact: http://www.ti.com/support	