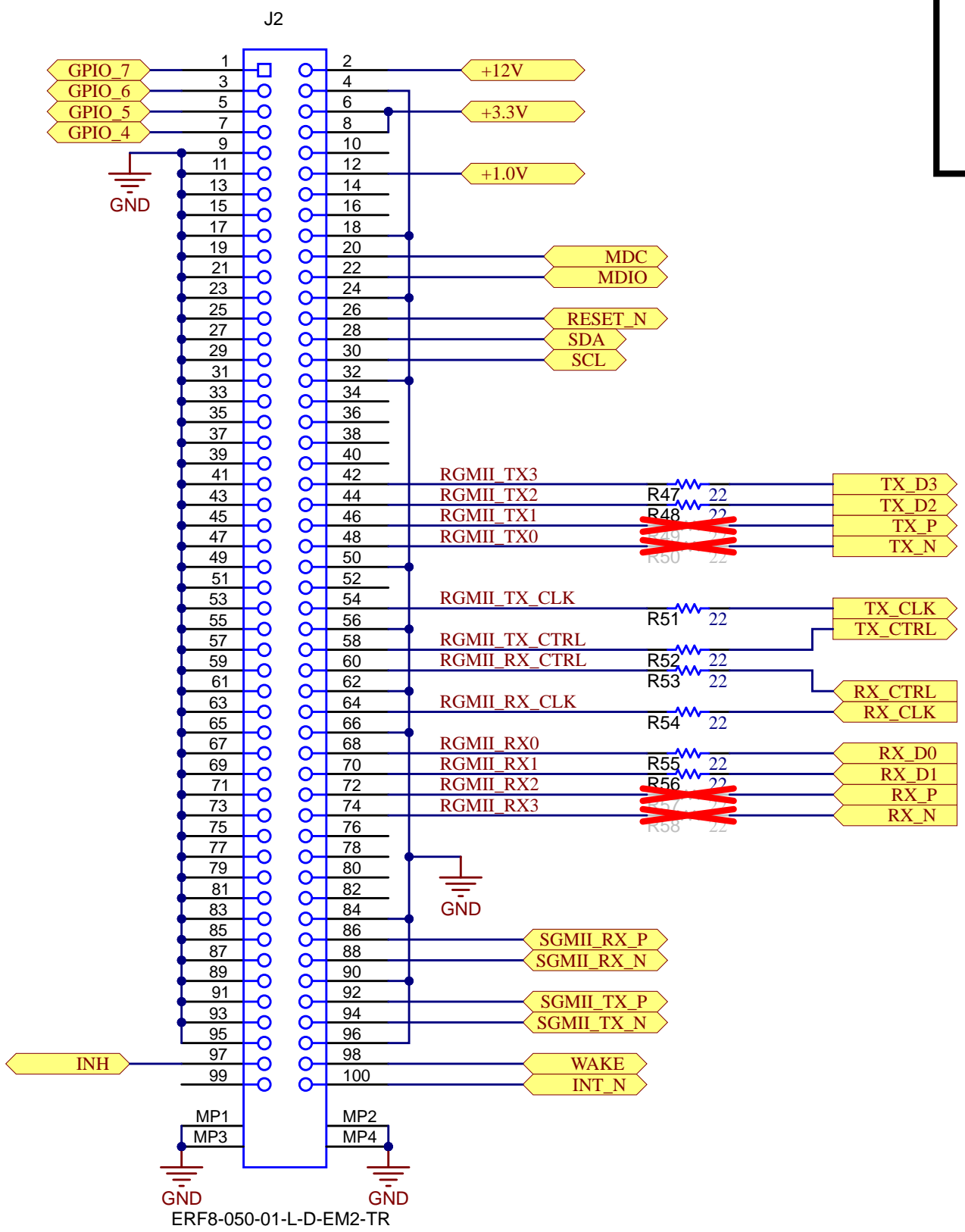
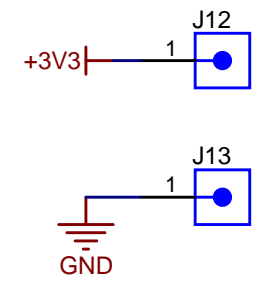
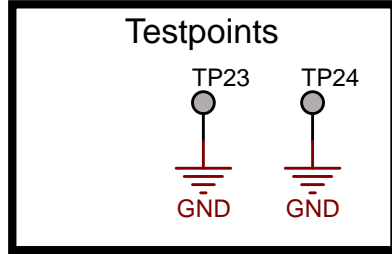


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Orderable:	Designed for: Closed Release	Mod. Date: 2/9/2024
TID #: TIDA-020061	Project Title: Automotive_Ethernet_PoDL_PD	
Number: TIDA-020061	Rev: E2	Sheet Title:
SVN Rev: Unknown revision	Assembly Variant: STD	Sheet: 1 of 20
Drawn By:	File: Main.SchDoc	Size: A4
Engineer: Fabian Barth	Contact: http://www.ti.com/support	





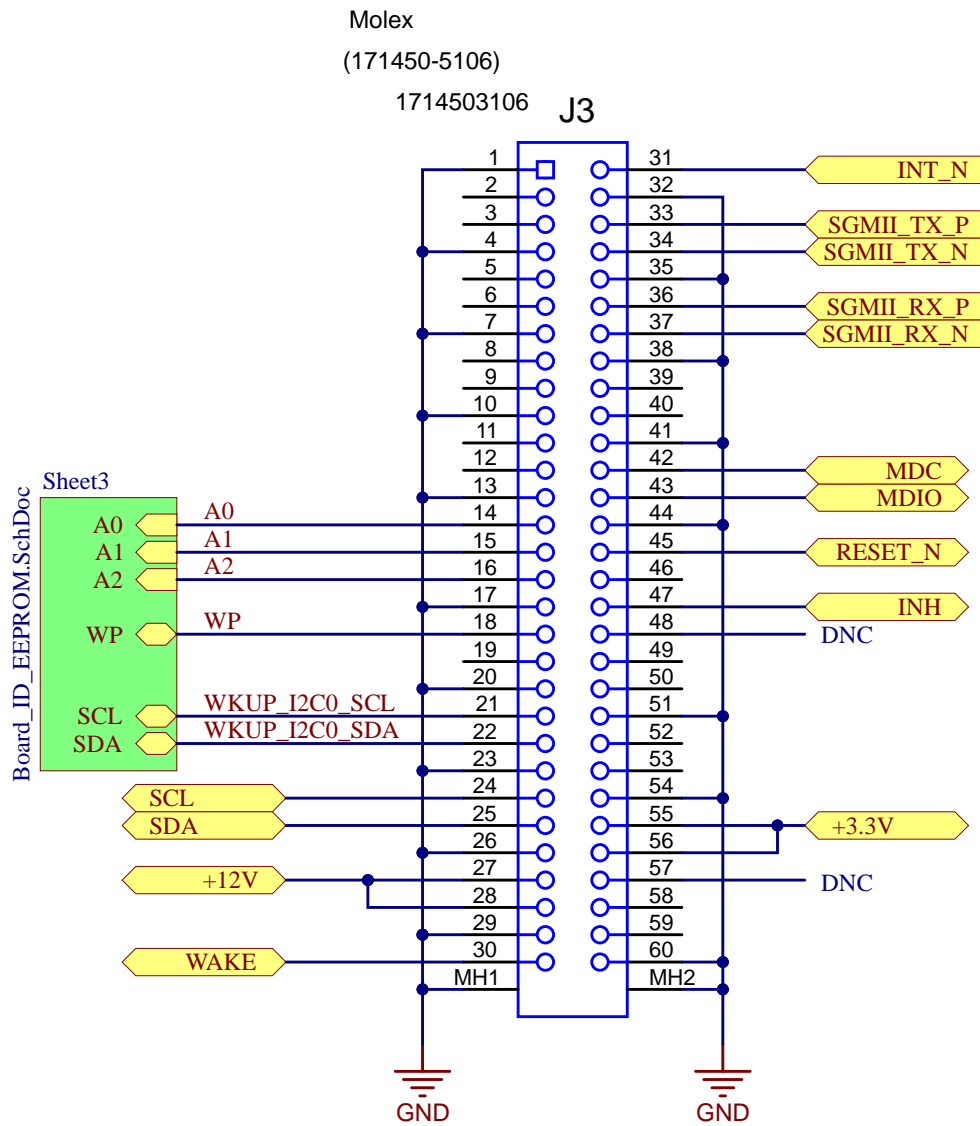
△ To switch to SGMII:
place: R39, R40, R45, R46
remove: R49, R50, R58, R57

△ To switch to RGMII:
place: R49, R50, R58, R57
remove: R39, R40, R45, R46

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Orderable:	Designed for: Closed Release	Mod. Date: 2/8/2024
TID #: TIDA-020061	Project Title: Automotive_Ethernet_PoDL_PD	
Number: TIDA-020061	Rev: E2	Sheet Title:
SVN Rev: Unknown revision	Assembly Variant: STD	Sheet: 2 of 20
Drawn By:	File: 100Pin.SchDoc	Size: A4
Engineer: Fabian Barth	Contact: http://www.ti.com/support	

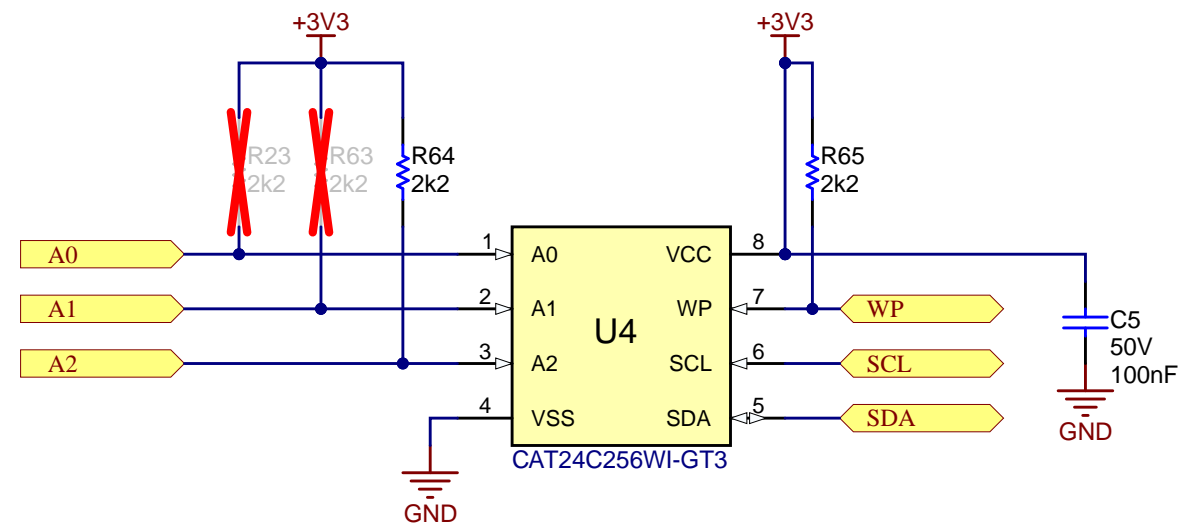




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Orderable:	Designed for: Closed Release	Mod. Date: 2/8/2024
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Number: TIDA-020061	Rev: E2	Sheet Title:
SVN Rev: Unknown revision	Assembly Variant: STD	Sheet: 3 of 20
Drawn By:	File: 60Pin.SchDoc	Size: A4
Engineer: Fabian Barth	Contact: http://www.ti.com/support	


BOARD ID EEPROM




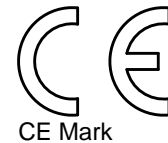
I2C device address: 0x54

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Orderable:	Designed for: Closed Release	Mod. Date: 2/8/2024
TID #: TIDA-020061	Project Title: Automotive_Ethernet_PoDL_PD	
Number: TIDA-020061	Rev: E2	Sheet Title:
SVN Rev: Unknown revision	Assembly Variant: STD	Sheet: 4 of 20
Drawn By:	File: Board_ID_EEPROM.SchDoc	Size: A4
Engineer: Fabian Barth	Contact: http://www.ti.com/support	

H1

 NY PMS 440 0025 PH

H2

 NY PMS 440 0025 PH




PCB
 LOGO
 Texas Instruments

PCB
 LOGO
 FCC disclaimer

PCB
 LOGO
 WEEE logo

LBL4
PCB Label
 THT-14-423-10
 Size: 0.65" x 0.20 "

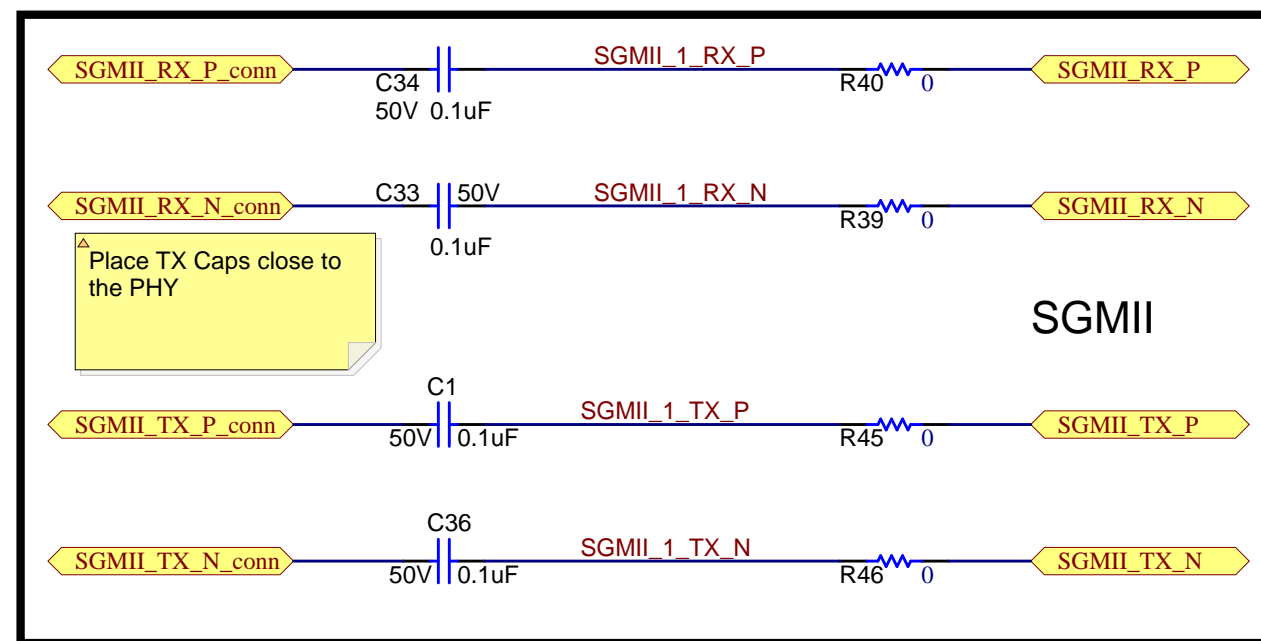
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PCB Number: TIDA-020061
 PCB Rev: E2

Variant/Label Table	
Variant	Label Text
STD	

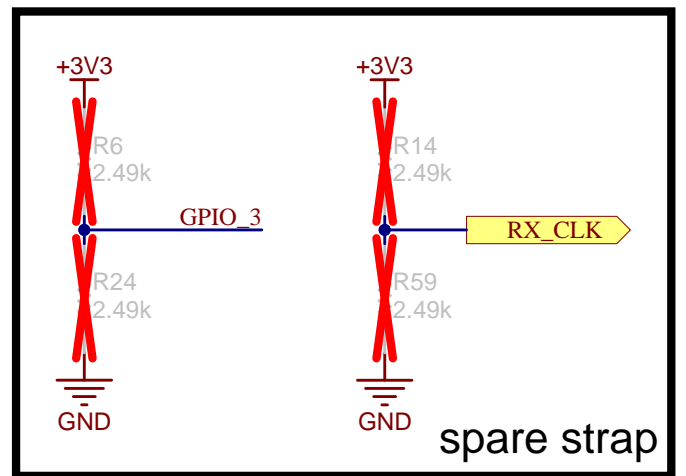
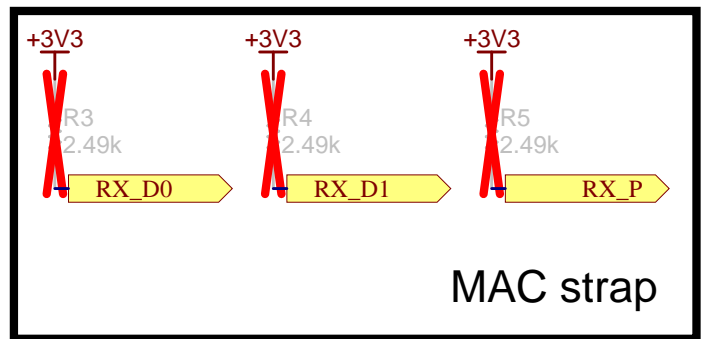
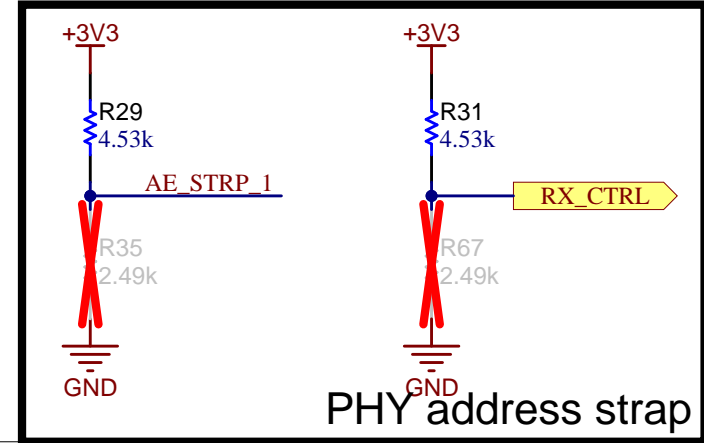
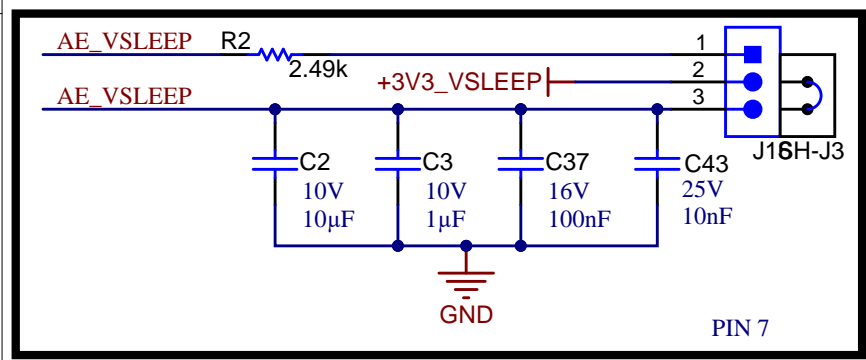
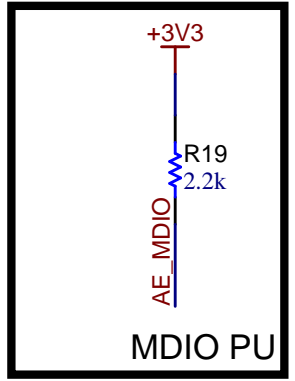
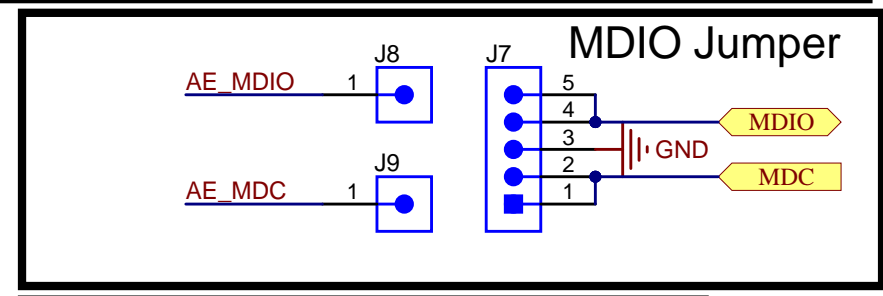
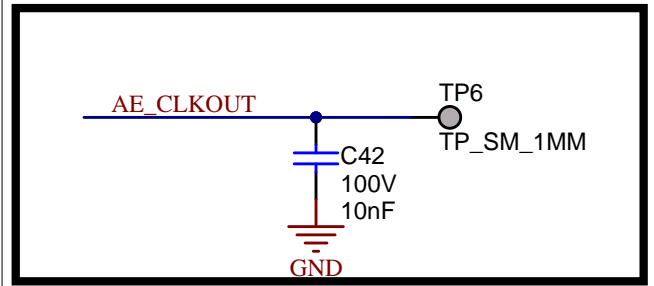
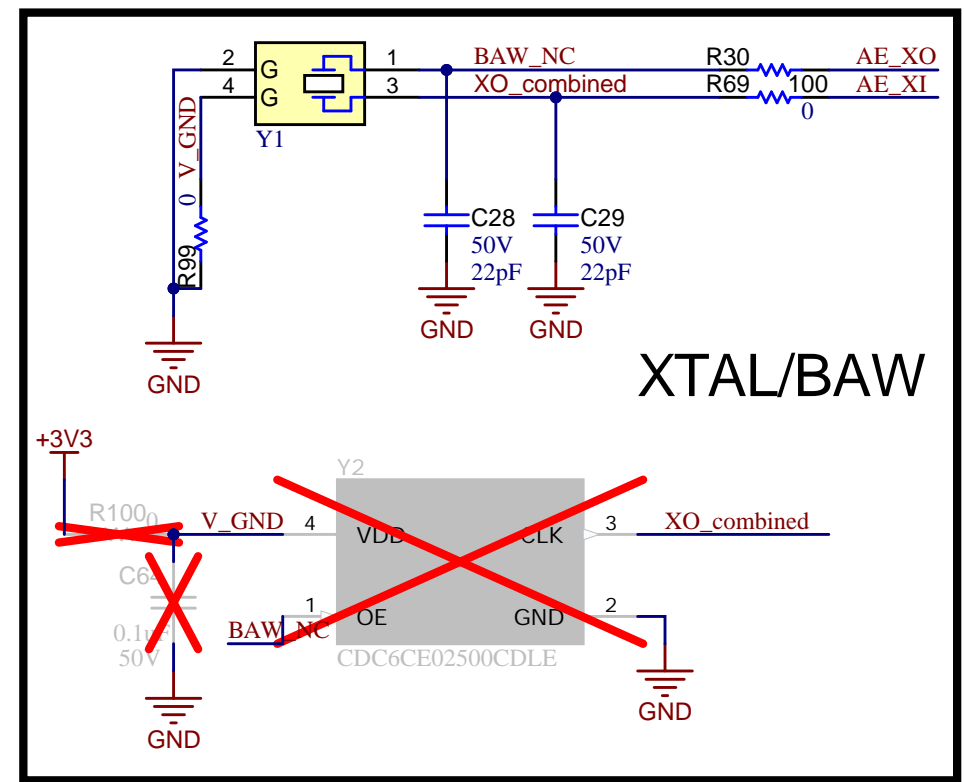
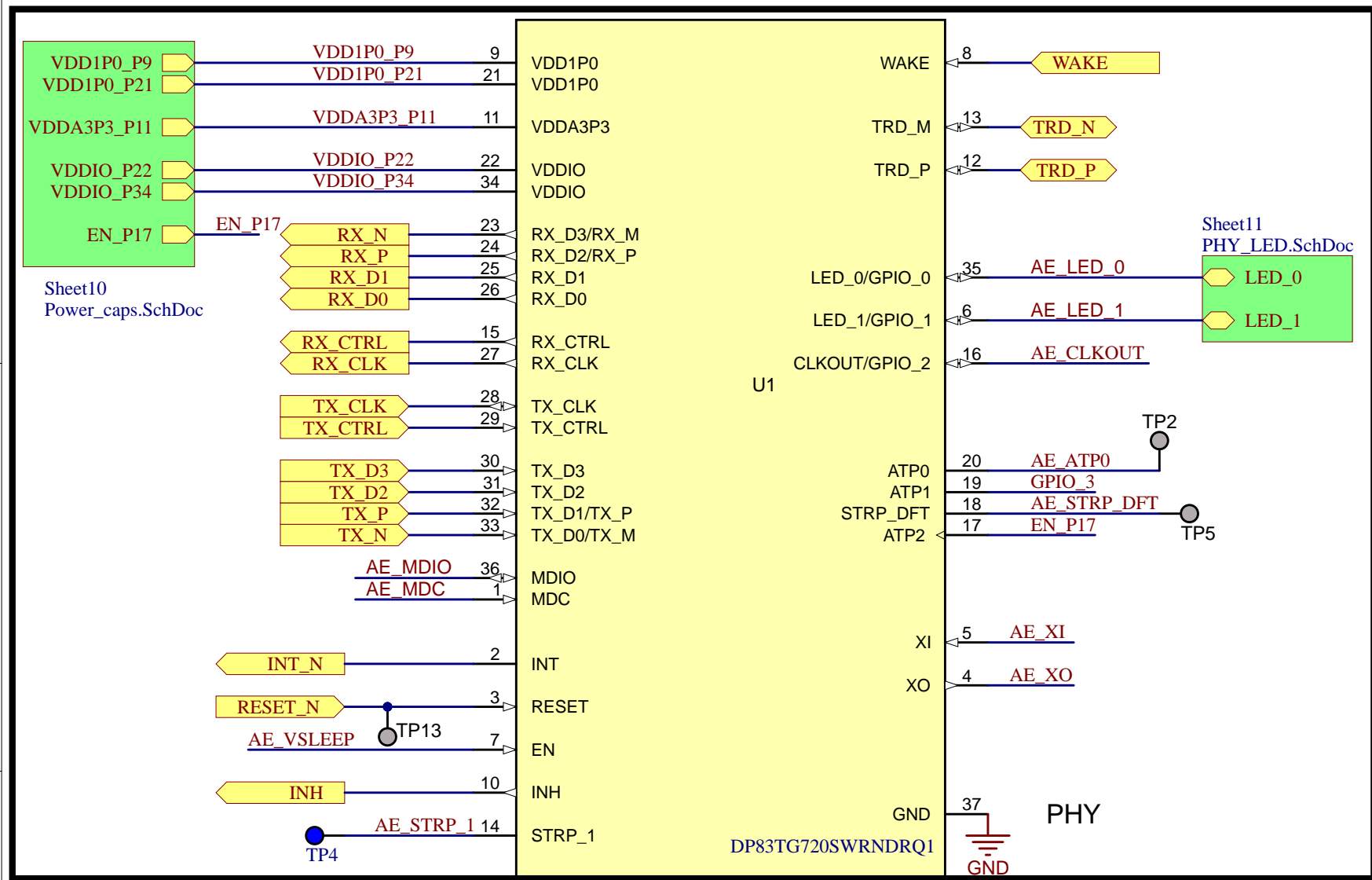
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TID #: TIDA-020061	Project Title: Automotive_Ethernet_PoDL_PD	
Number: TIDA-020061 Rev: E2	Sheet Title:	
SVN Rev: Unknown revision	Assembly Variant: STD	Sheet: 5 of 20
Drawn By:	File: Hardware.SchDoc	Size: A4
Engineer: Fabian Barth	Contact: http://www.ti.com/support	



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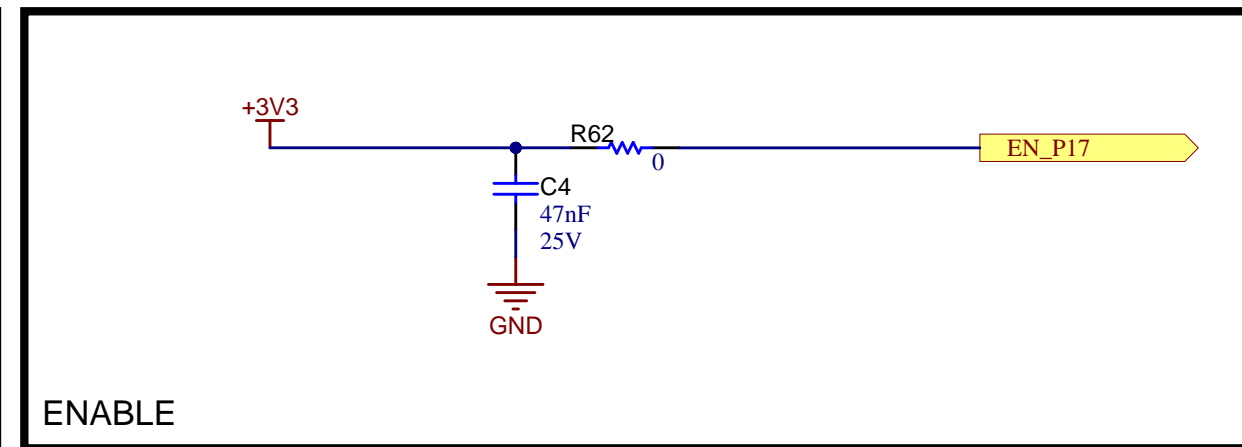
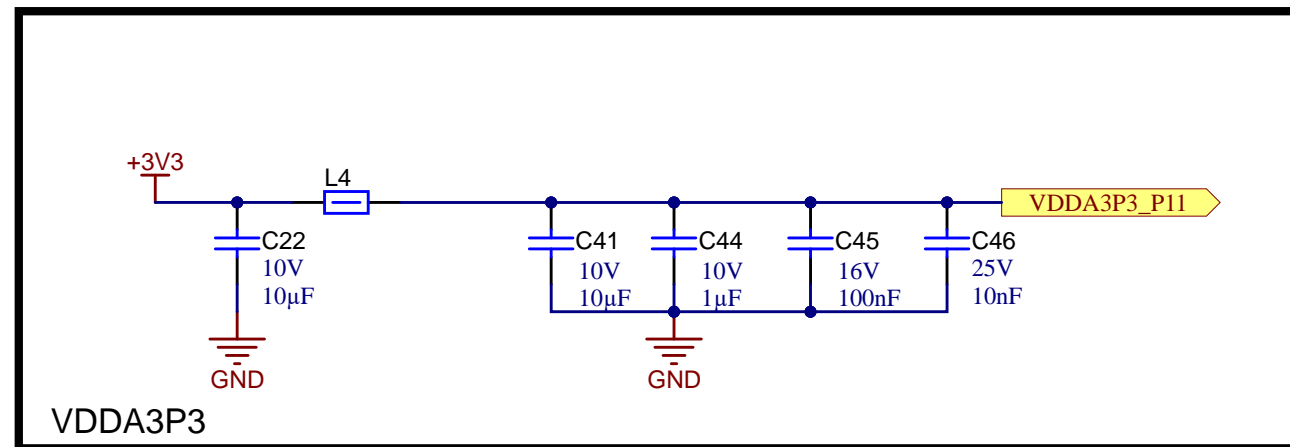
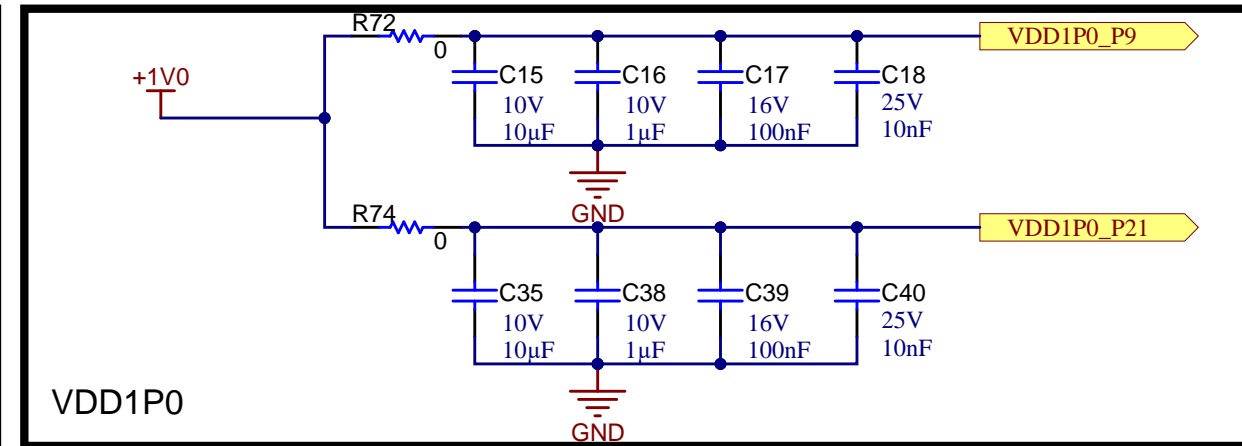
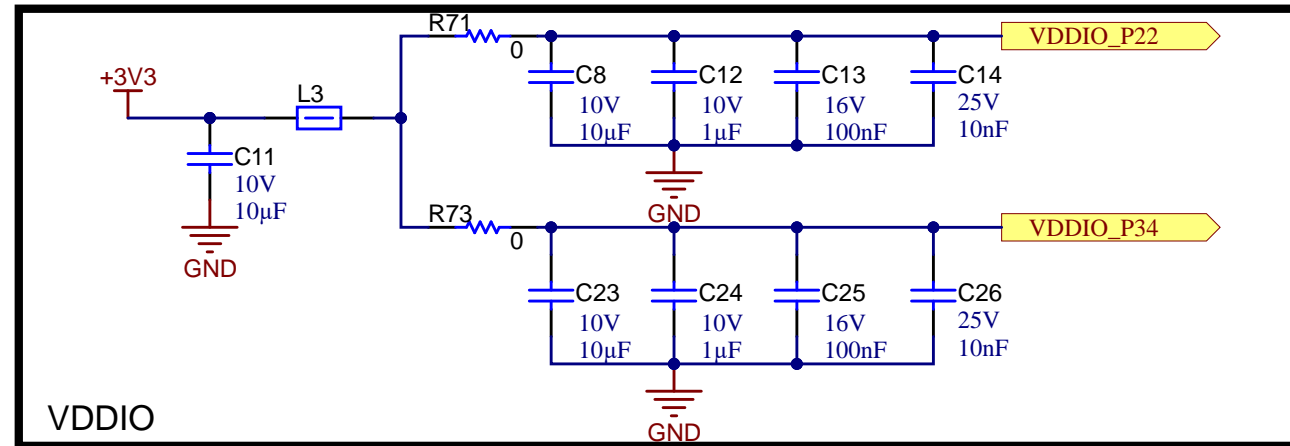
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SVN Rev: Unknown revision	Assembly Variant: STD	Sheet: 6 of 20
Drawn By:	File: SGMII_caps.SchDoc	Size: A4
Engineer: Fabian Barth	Contact: http://www.ti.com/support	



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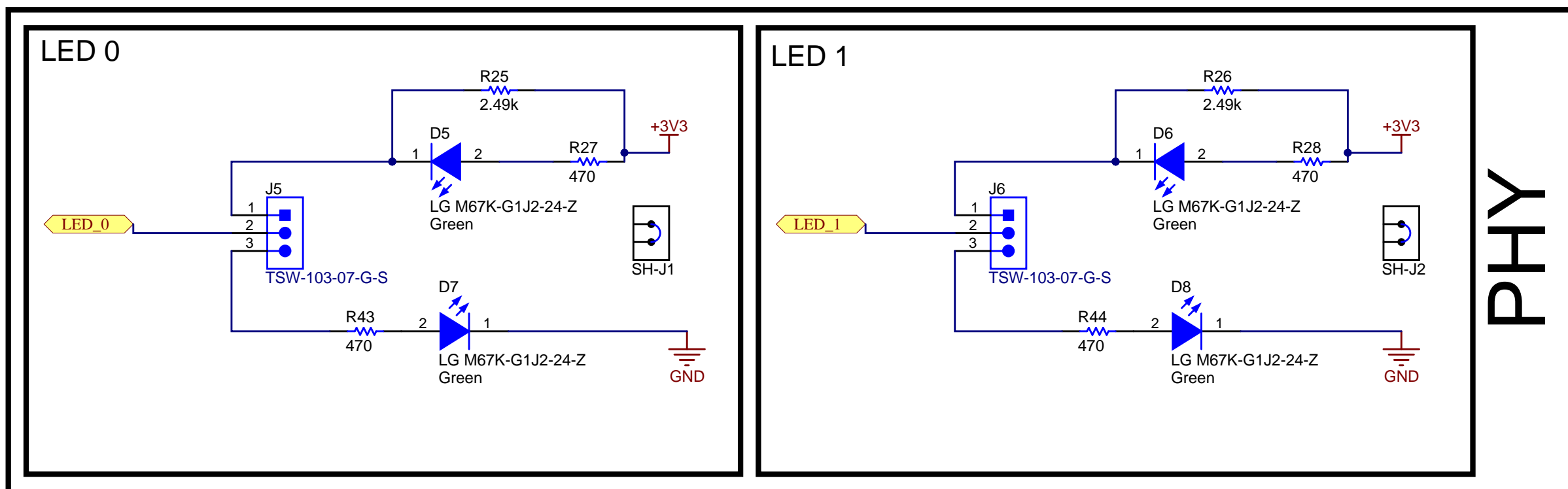
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Number: TIDA-020061	Rev: E2	Sheet Title:
SVN Rev: Unknown revision	Assembly Variant: STD	Sheet: 7 of 20
Drawn By:	File: PHY.SchDoc	Size: A4
Engineer: Fabian Barth	Contact: http://www.ti.com/support	





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Orderable:	Designed for: Closed Release	Mod. Date: 2/8/2024
TID #: TIDA-020061	Project Title: Automotive_Ethernet_PoDL_PD	
Number: TIDA-020061	Rev: E2	Sheet Title:
SVN Rev: Unknown revision	Assembly Variant: STD	Sheet: 8 of 20
Drawn By:	File: Power_caps.SchDoc	Size: A4
Engineer: Fabian Barth	Contact: http://www.ti.com/support	



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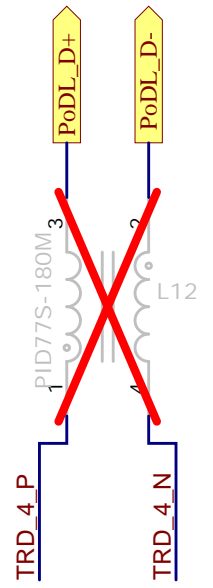
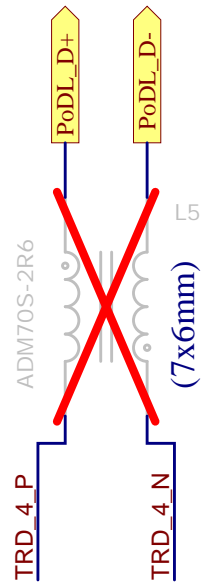
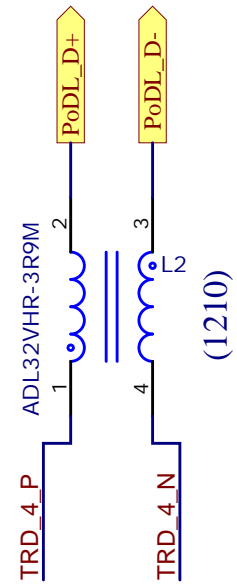
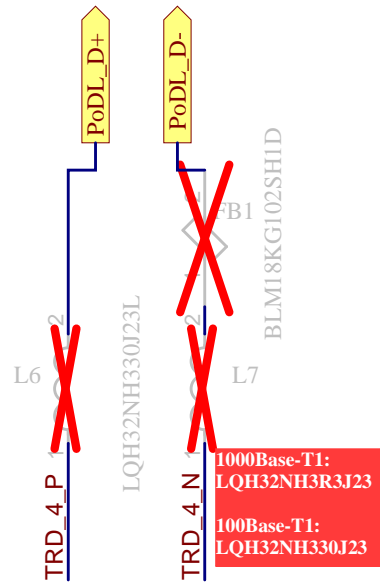
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Drawn By:	File: PHY_LED.SchDoc	Size: A4
Engineer: Fabian Barth	Contact: http://www.ti.com/support	

MURATA

TDK

TDK

TDK



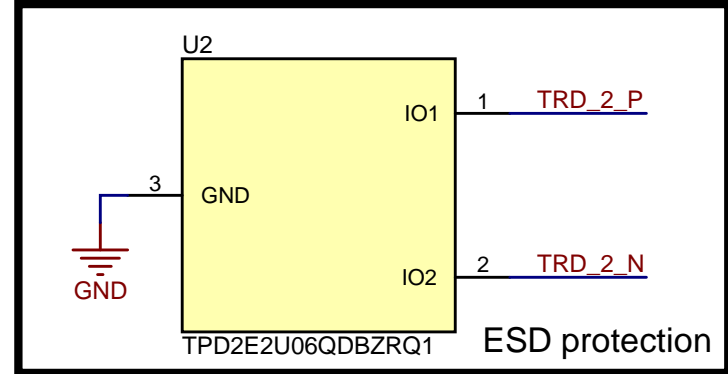
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1000Base

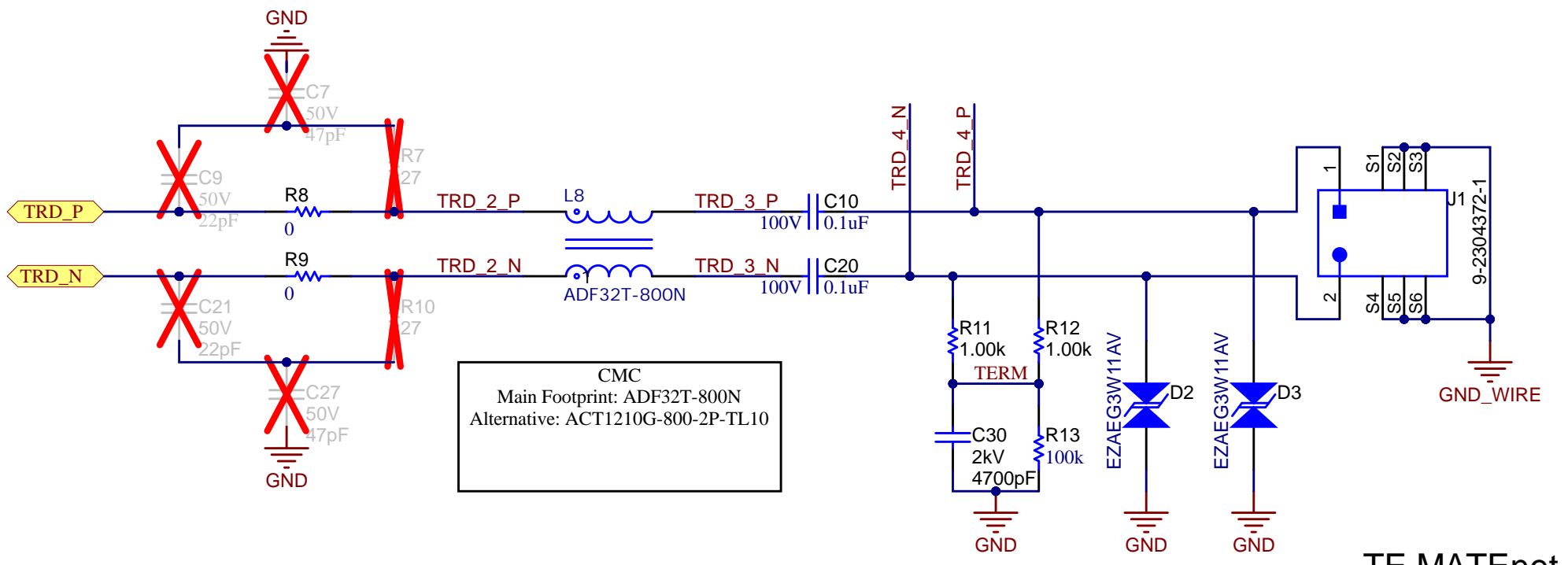
1000Base

100Base

1000Base-T1:
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LQH32NH330J23

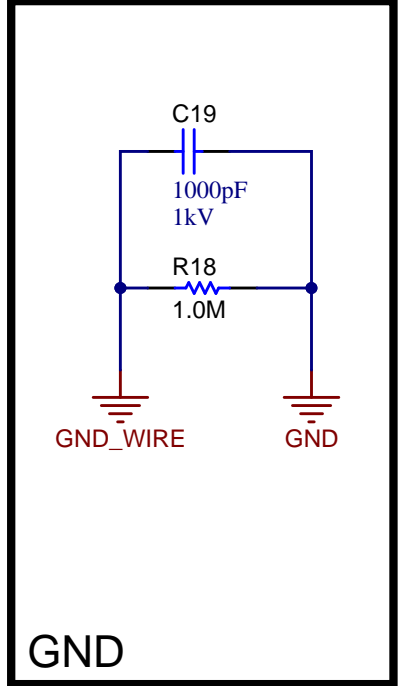


ESD protection



CMC
Main Footprint: ADF32T-800N
Alternative: ACT1210G-800-2P-TL10

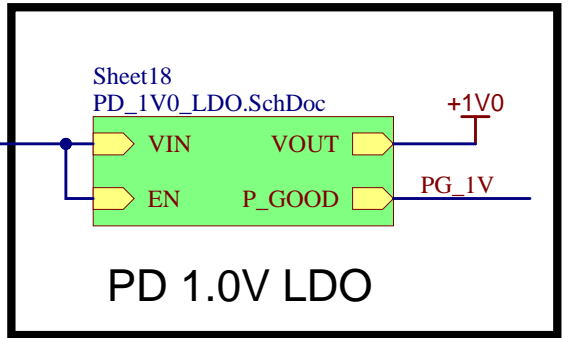
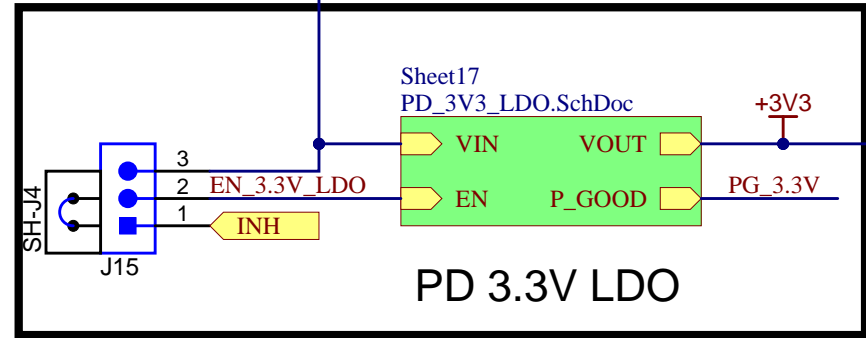
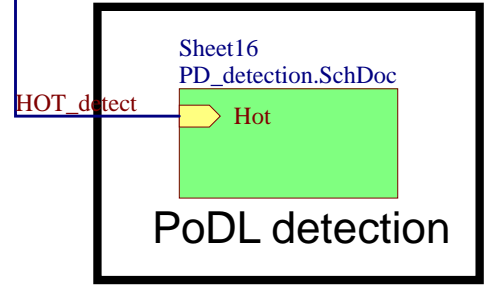
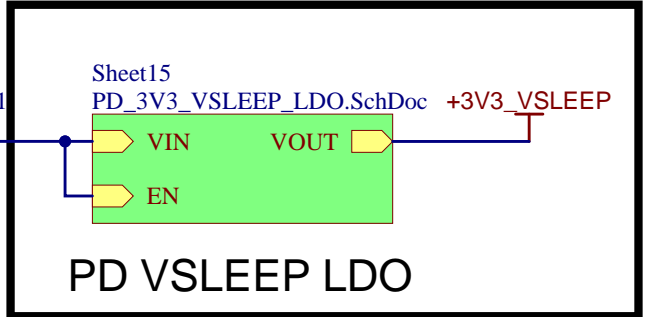
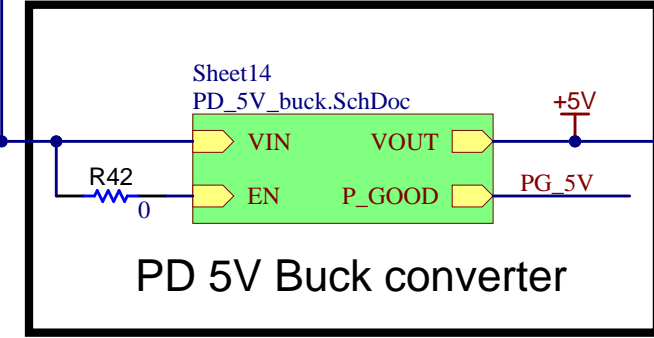
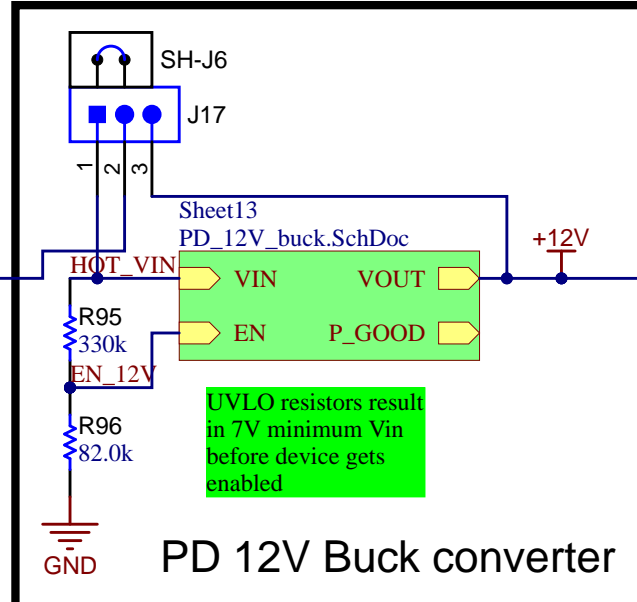
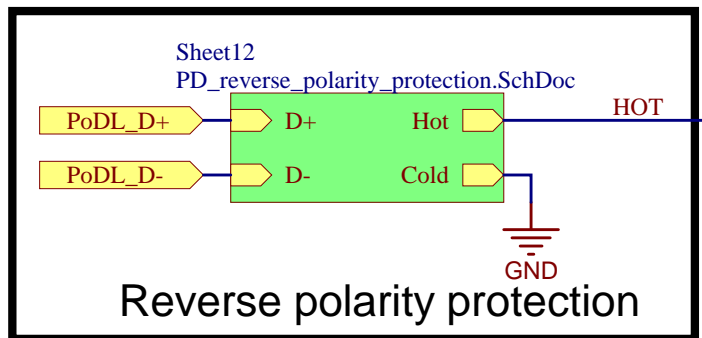
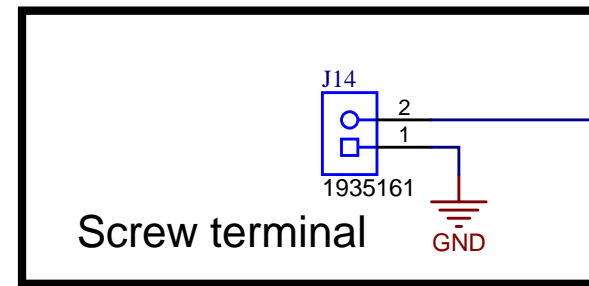
TE MATEnet



GND

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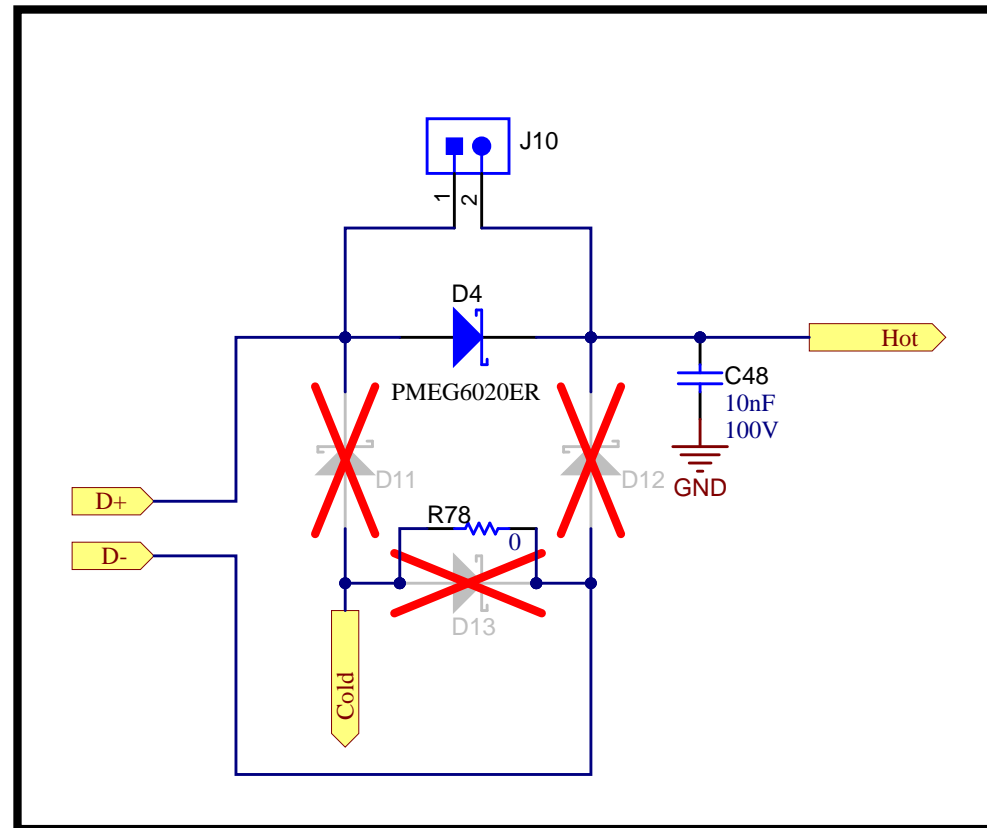
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Number: TIDA-020061 Rev: E2	Sheet Title:	
SVN Rev: Unknown revision	Assembly Variant: STD	Sheet: 10 of 20
Drawn By:	File: MDI.SchDoc	Size: A4
Engineer: Fabian Barth	Contact: http://www.ti.com/support	



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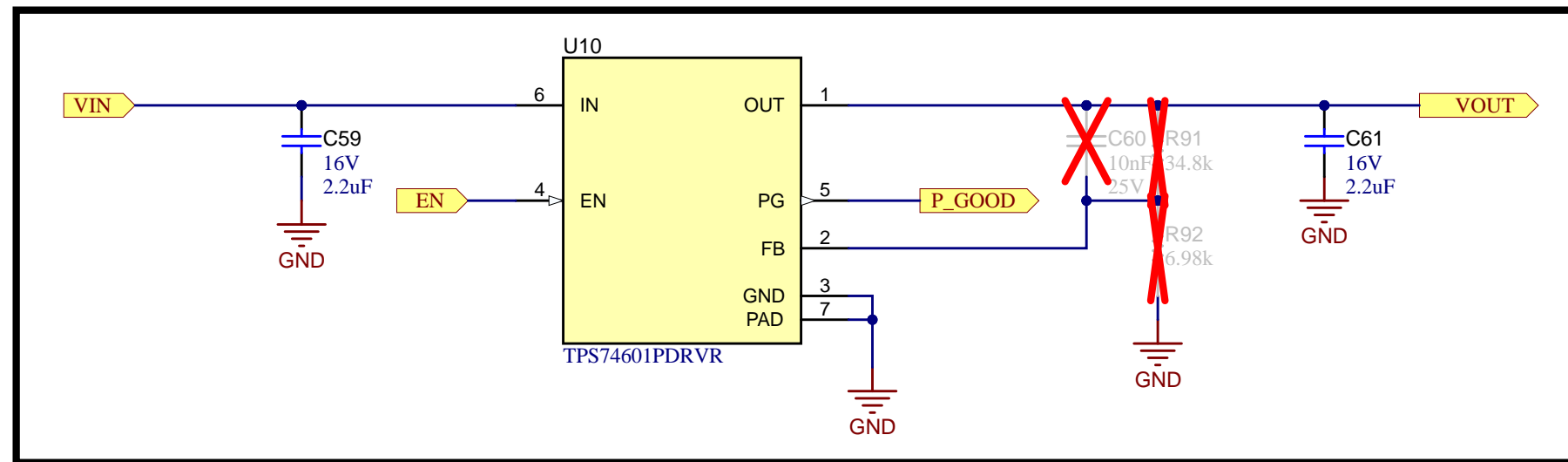
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SVN Rev: Unknown revision	Assembly Variant: STD	Sheet: 11 of 20
Drawn By:	File: PD.SchDoc	Size: A4
Engineer: Fabian Barth	Contact: http://www.ti.com/support	





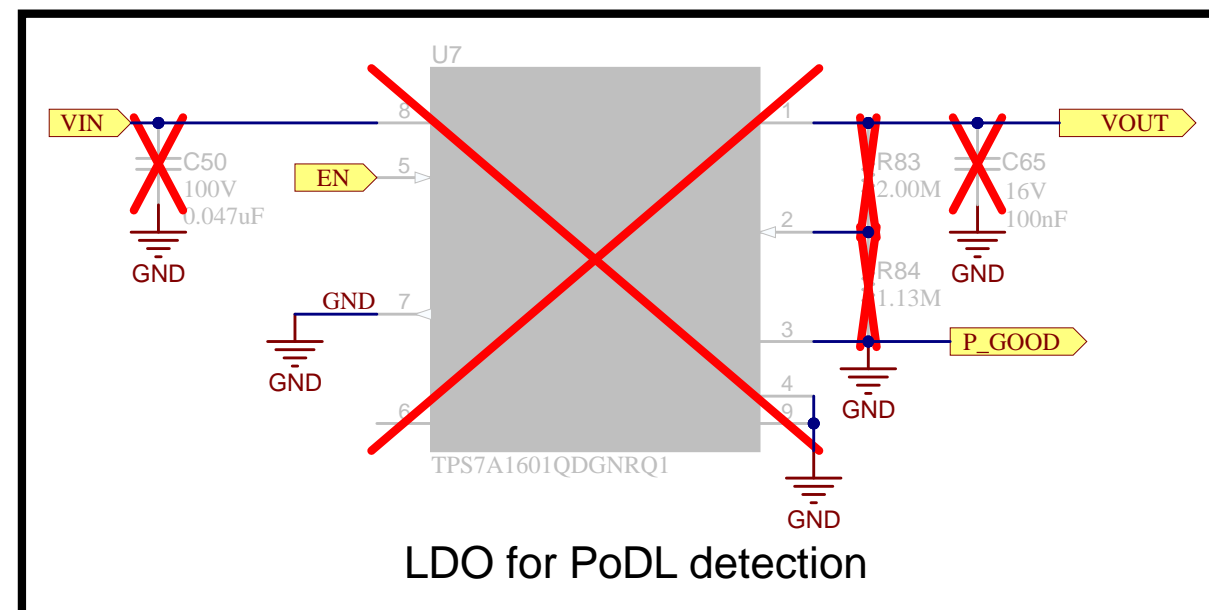
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Orderable:	Designed for: Closed Release	Mod. Date: 2/8/2024
TID #: TIDA-020061	Project Title: Automotive_Ethernet_PoDL_PD	
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Drawn By:	File: PD_reverse_polarity_protection.SchDoc	Size: A4
Engineer: Fabian Barth	Contact: http://www.ti.com/support	



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Orderable:	Designed for: Closed Release	Mod. Date: 2/8/2024
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Engineer: Fabian Barth	Contact: http://www.ti.com/support	

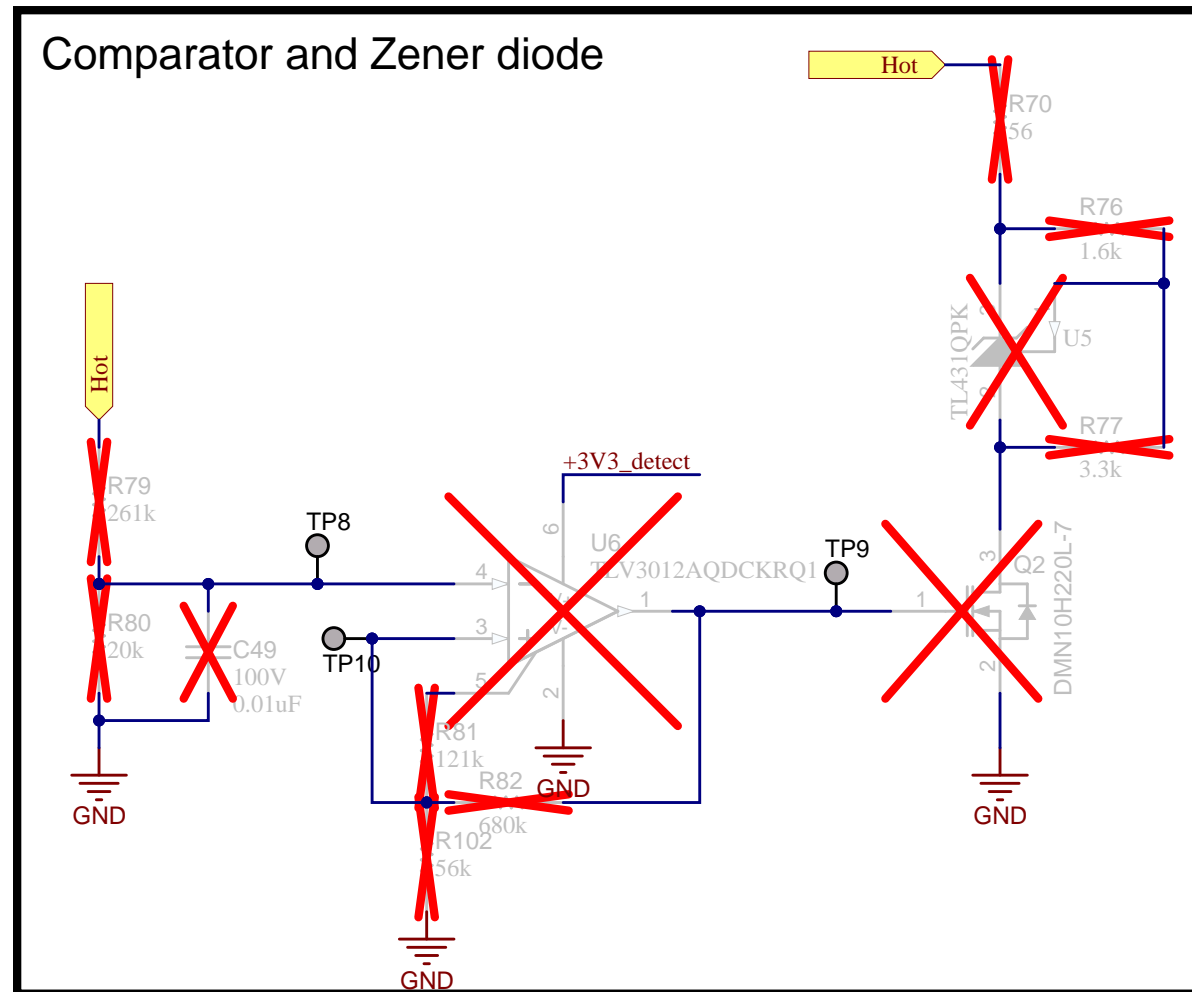
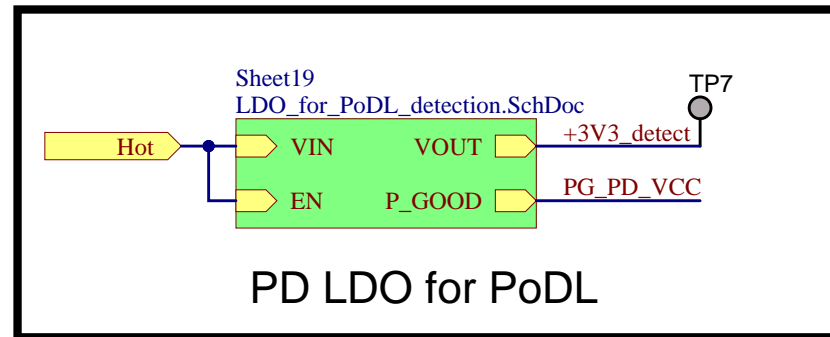


LDO for PoDL detection

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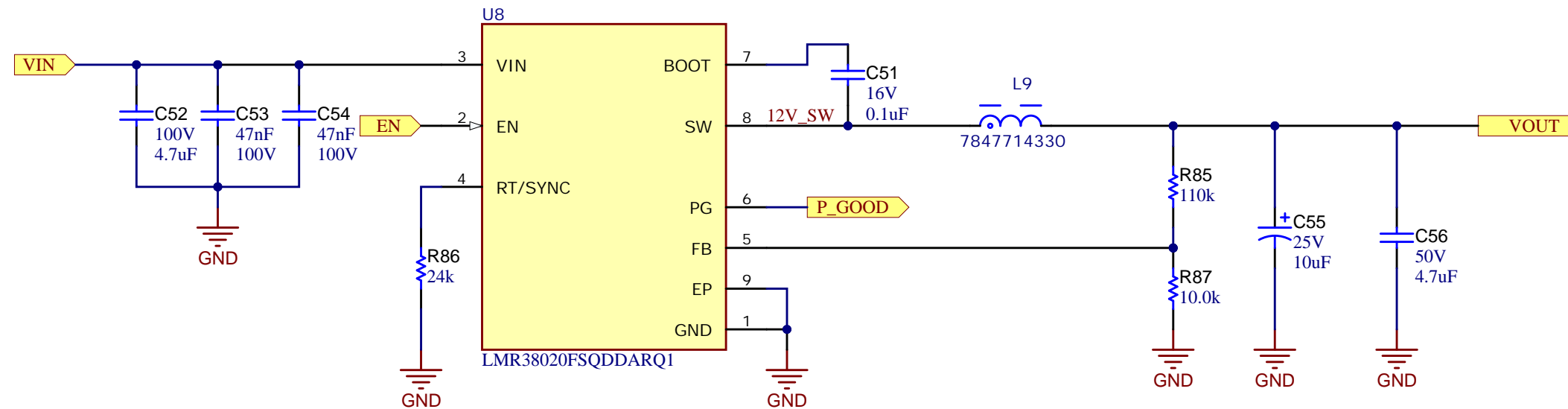
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Drawn By:	File: LDO_for_PoDL_detection.SchDoc	Size: A4
Engineer: Fabian Barth	Contact: http://www.ti.com/support	





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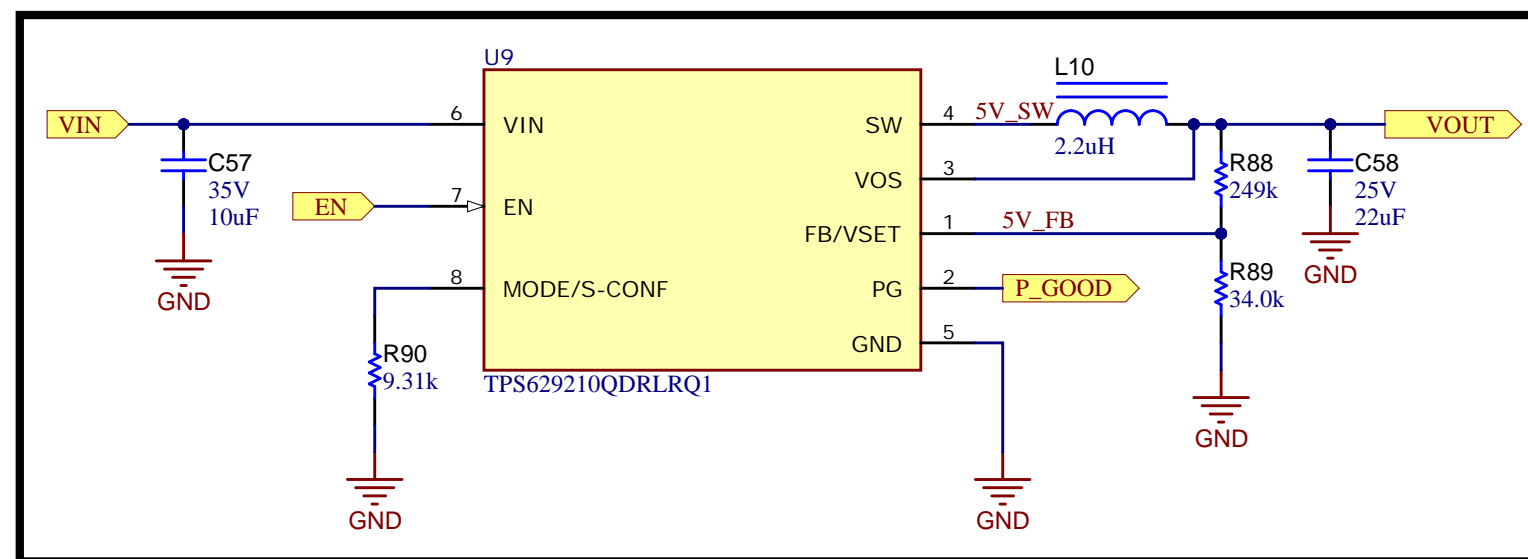
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Number: TIDA-020061	Rev: E2	Sheet Title:
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Drawn By:	File: PD_detection.SchDoc	Size: A4
Engineer: Fabian Barth	Contact: http://www.ti.com/support	



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Engineer: Fabian Barth	Contact: http://www.ti.com/support	

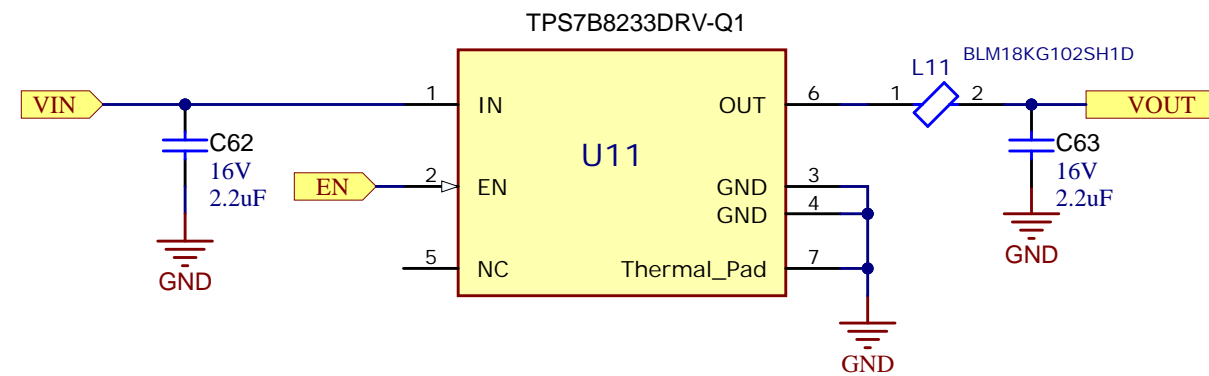




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Engineer: Fabian Barth	Contact: http://www.ti.com/support	

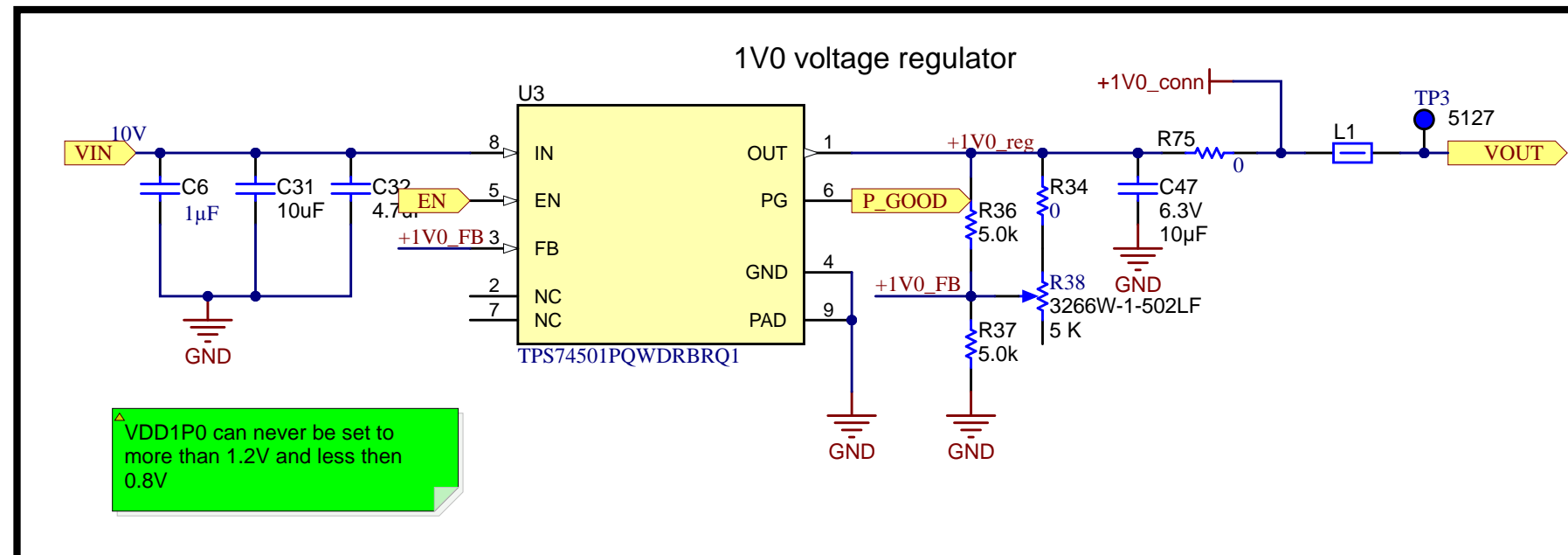




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SVN Rev: Unknown revision	Assembly Variant: STD	Sheet: 18 of 20
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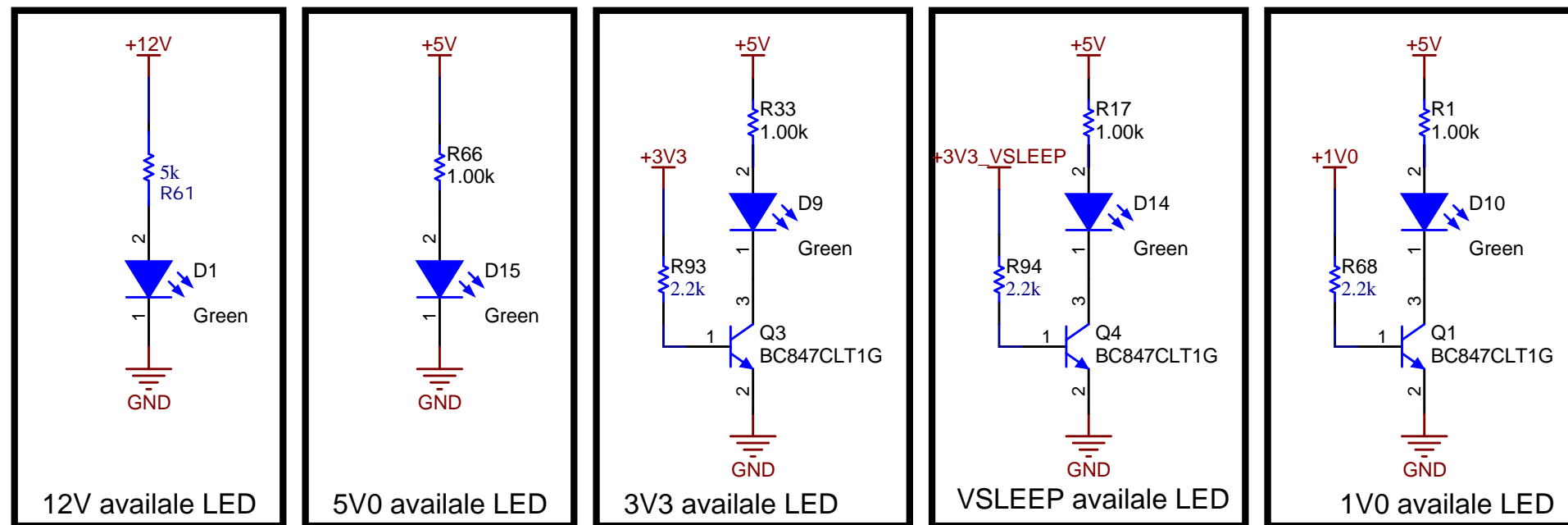


VDD1P0 can never be set to more than 1.2V and less than 0.8V

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SVN Rev: Unknown revision	Assembly Variant: STD	Sheet: 20 of 20
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