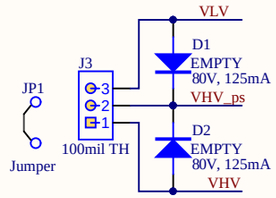
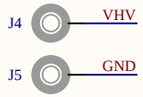
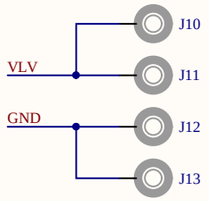
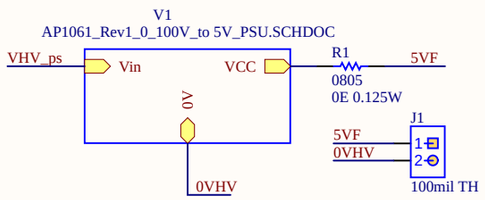


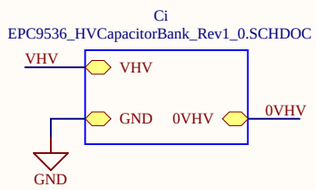




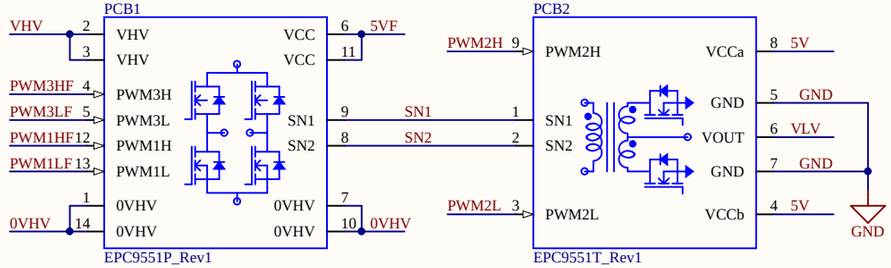
Low Voltage Connection



5V Supply - 0VHV

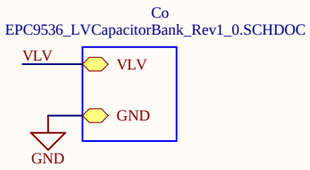


High Voltage Capacitors

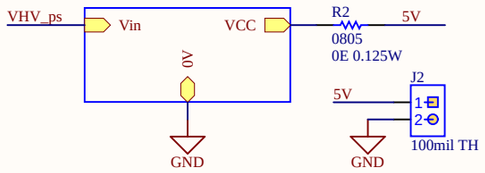


Primary Full Bridge Board

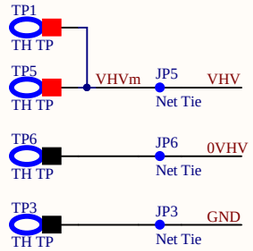
Transformer Board



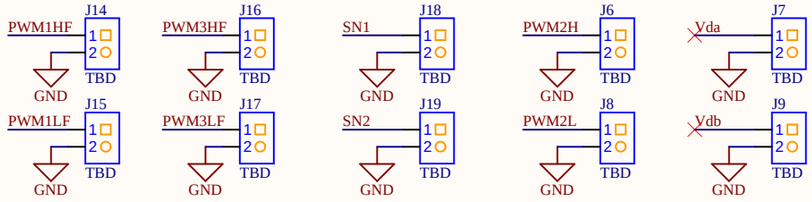
Low Voltage Capacitors



5V Supply - GND



High Voltage Sense

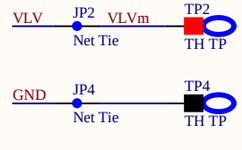


PWM signals
High Voltage side

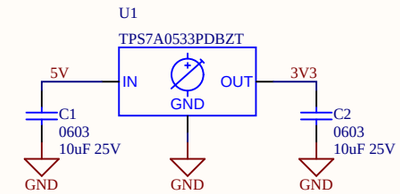
FB switch nodes
High Voltage side

PWM signals
Low Voltage side

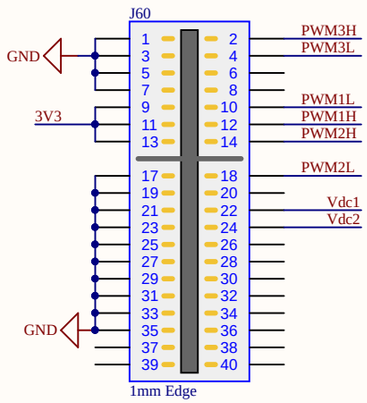
FET drain terminals
Low Voltage side



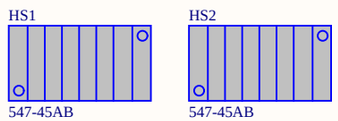
Low Voltage Sense



3.3V Supply - GND

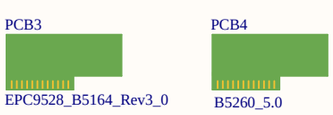


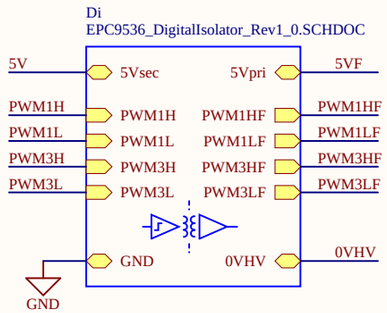
Controller connector



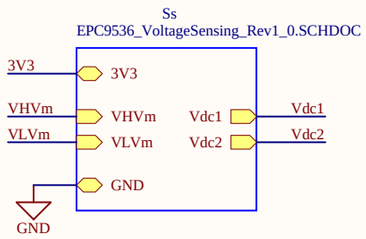
Heatsink kit

Nylon standoffs

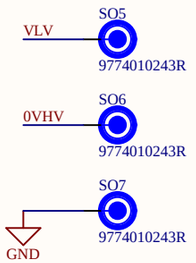




Digital Signal Isolation



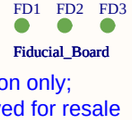
High/Low Voltage Sense



Mode Selector

Partial Power

Through Power



For evaluation only;
not FCC approved for resale

Title: Motherboard for EPC9159KIT			© EPC 2023
Design #: EPC9536		PCB #: B5260	
Revision 5.0		Revision: 5.0	
Date: 9/7/2023		Sheet 1 of 1	
File: EPC9536_B5260_Rev5_0.SchDoc.SCHDOC			

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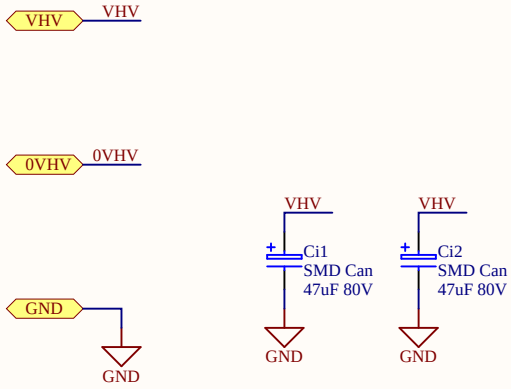
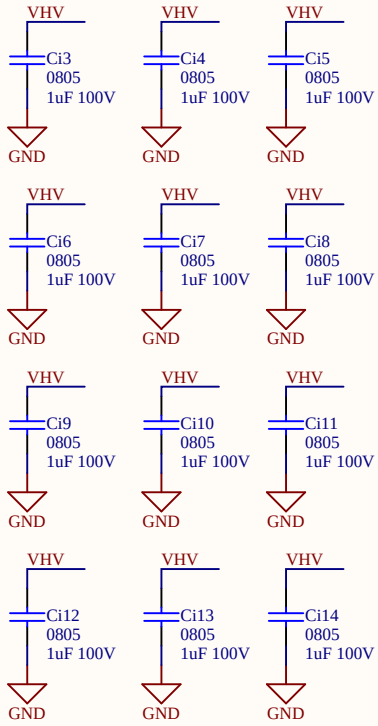
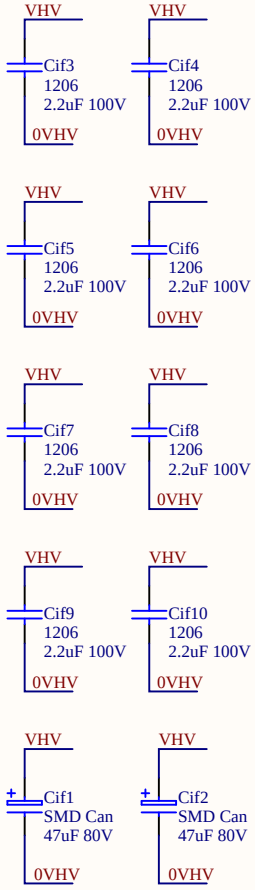


Bulk Capacitors



HF Capacitors



Floating Capacitors

Title:	High Voltage Capacitor Bank	© EPC 2023
Design #:	EPC9536 HV Capacitor Bank	
Revision	1.0	
Date: 9/7/2023	Sheet 2 of 1	
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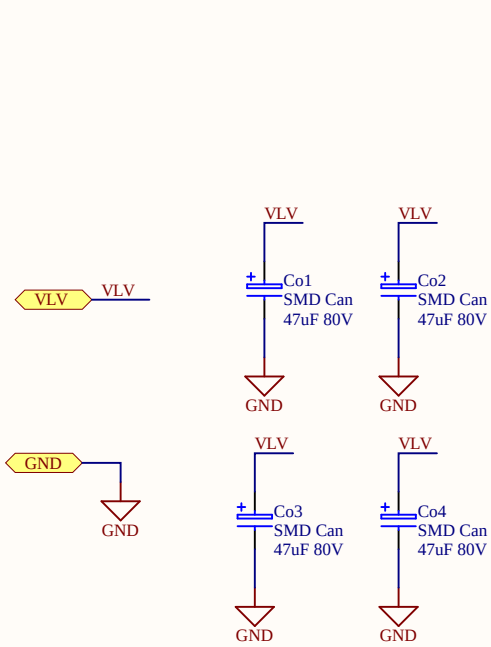
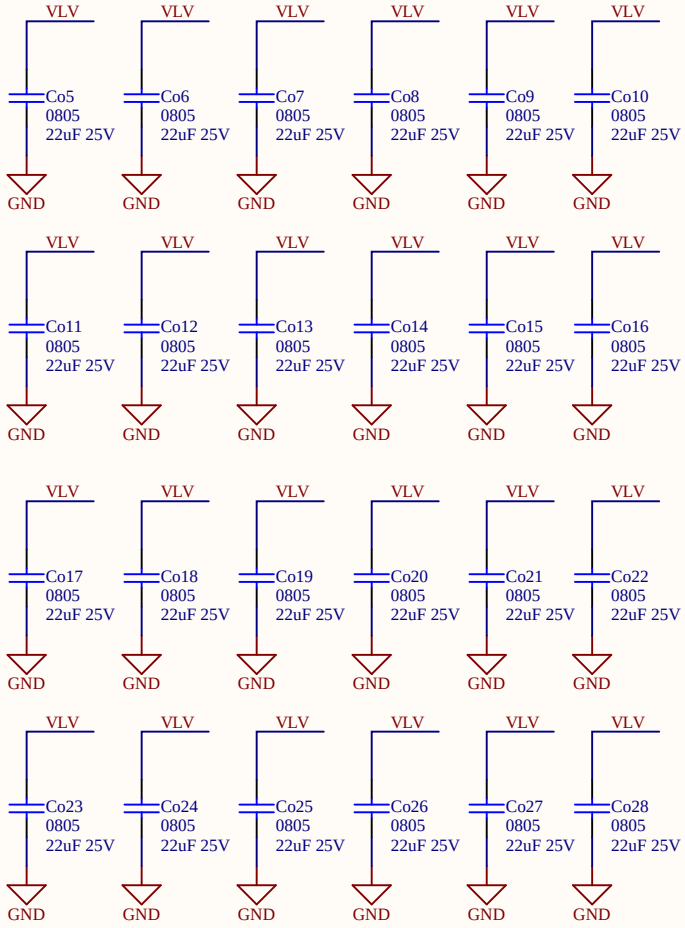
This electrolytic capacitors should be 20V, 390uFupdate once added to the database

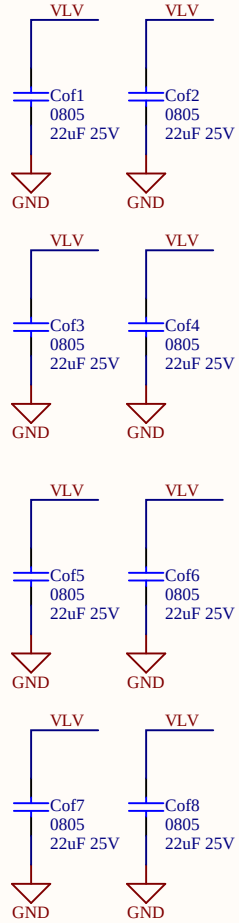
20SVPF390M



Bulk Capacitors

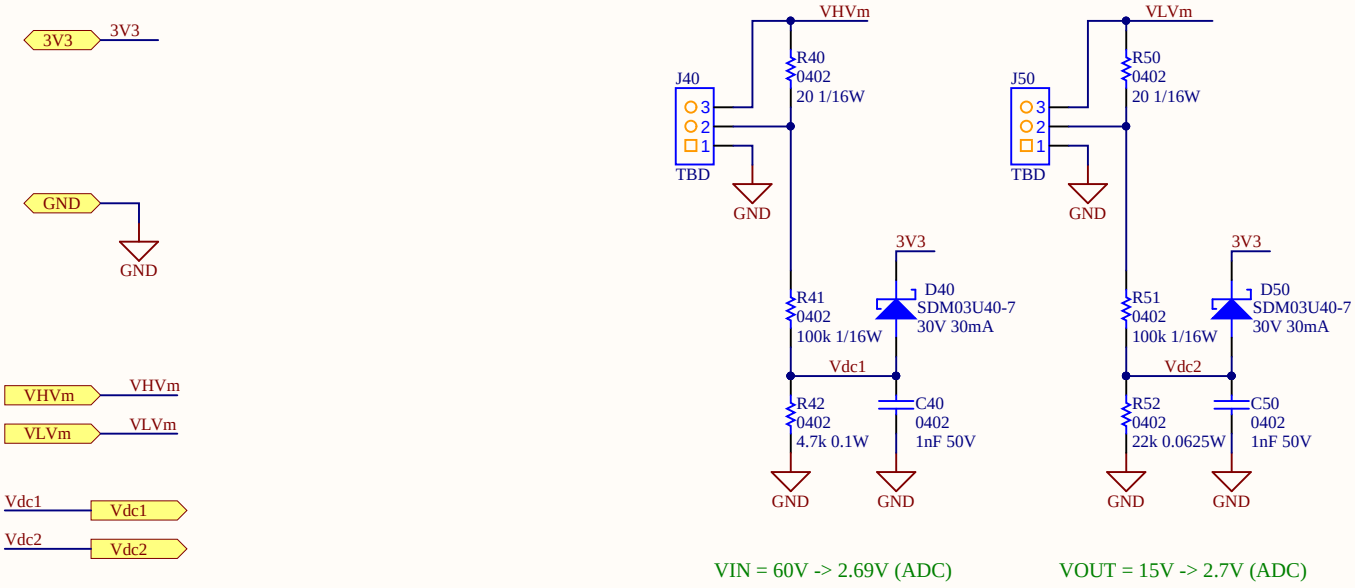


Output Capacitors



Input Side

Title: Low Voltage Capacitor Bank		© EPC 2023
Design #: EPC9536 LV Capacitor Bank Revision 1.0		Efficient Power Conversion 909 Pacific Coast Hwy. Ste 230 El Segundo, CA 90245 U.S.A. www.epc-co.com
Date: 9/7/2023	Sheet 3 of 1	
File: EPC9536_LVCapacitorBank_Rev1_0.SCHDOC		



Title:	Input/Output Voltage Sensing	© EPC 2023
Design #:	EPC9536 Voltage Sense	
Revision	1.0	
Date: 9/7/2023	Sheet 4 of 1	
File: EPC9536_VoltageSensing_Rev1_0.SCHDOC		

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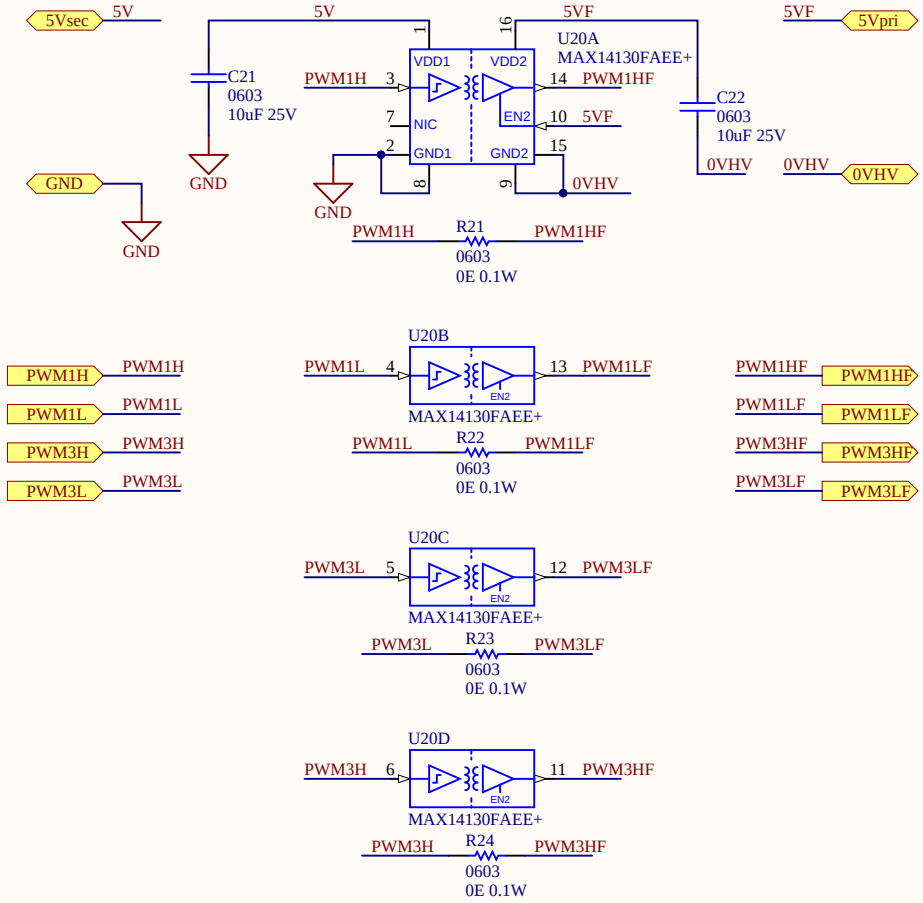

Title:	Digital Isolator for Primary PWM	© EPC 2023
Design #:	EPC9536 Digital Isolator	
Revision	1.0	
Date: 9/7/2023	Sheet 5 of 1	
File: EPC9536_DigitalIsolator_Rev1_0.SCHDOC		

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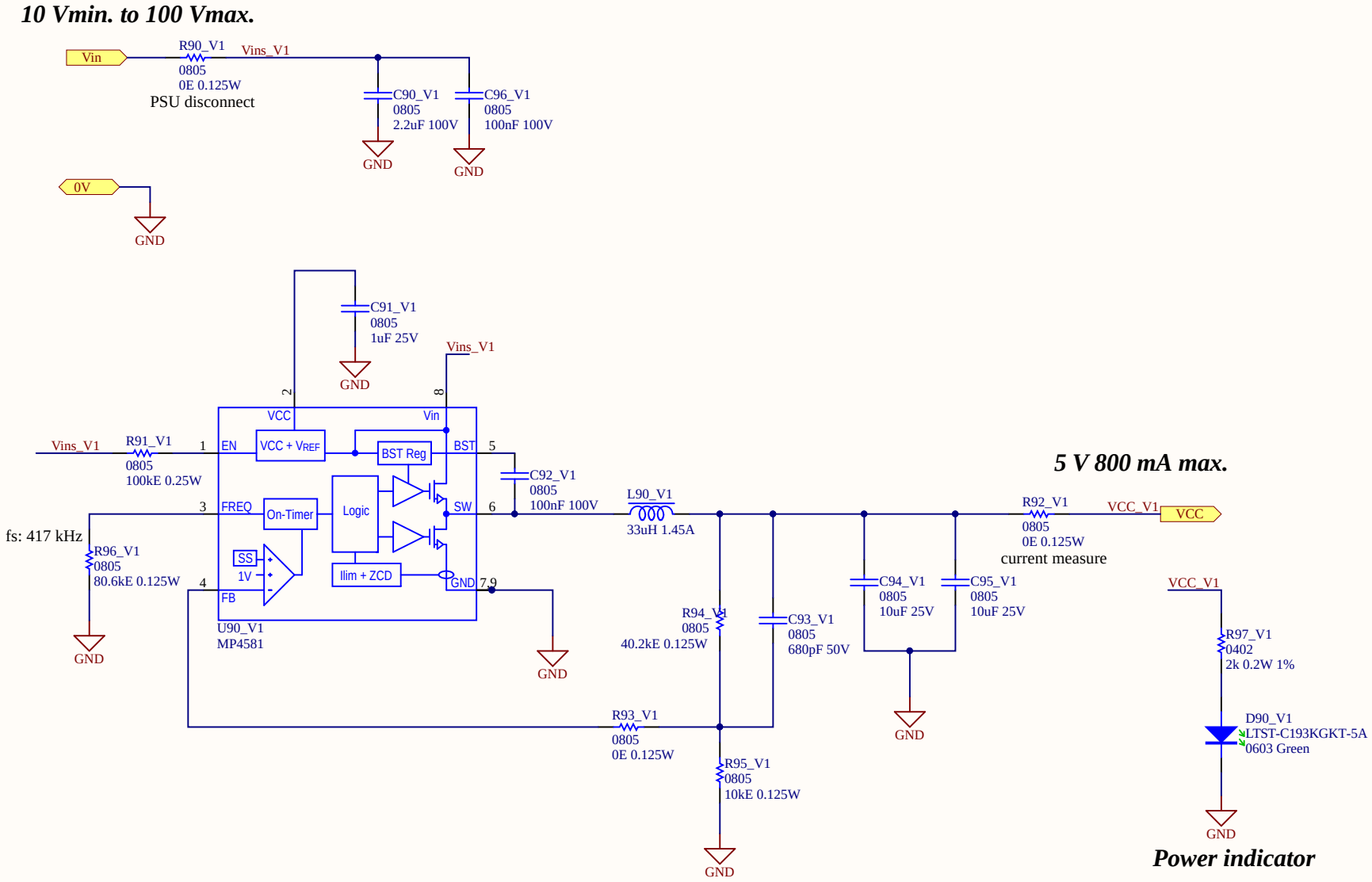

Title:	100 V to 5 V Housekeeping Power Supply	© EPC 2023
Design #:	AP1061 Rev. 1.0	
Revision	1.0	
Date: 9/7/2023	Sheet 6 of 1	
File: AP1061_Rev1_0_100V_to 5V_PSU.SCHDOC		

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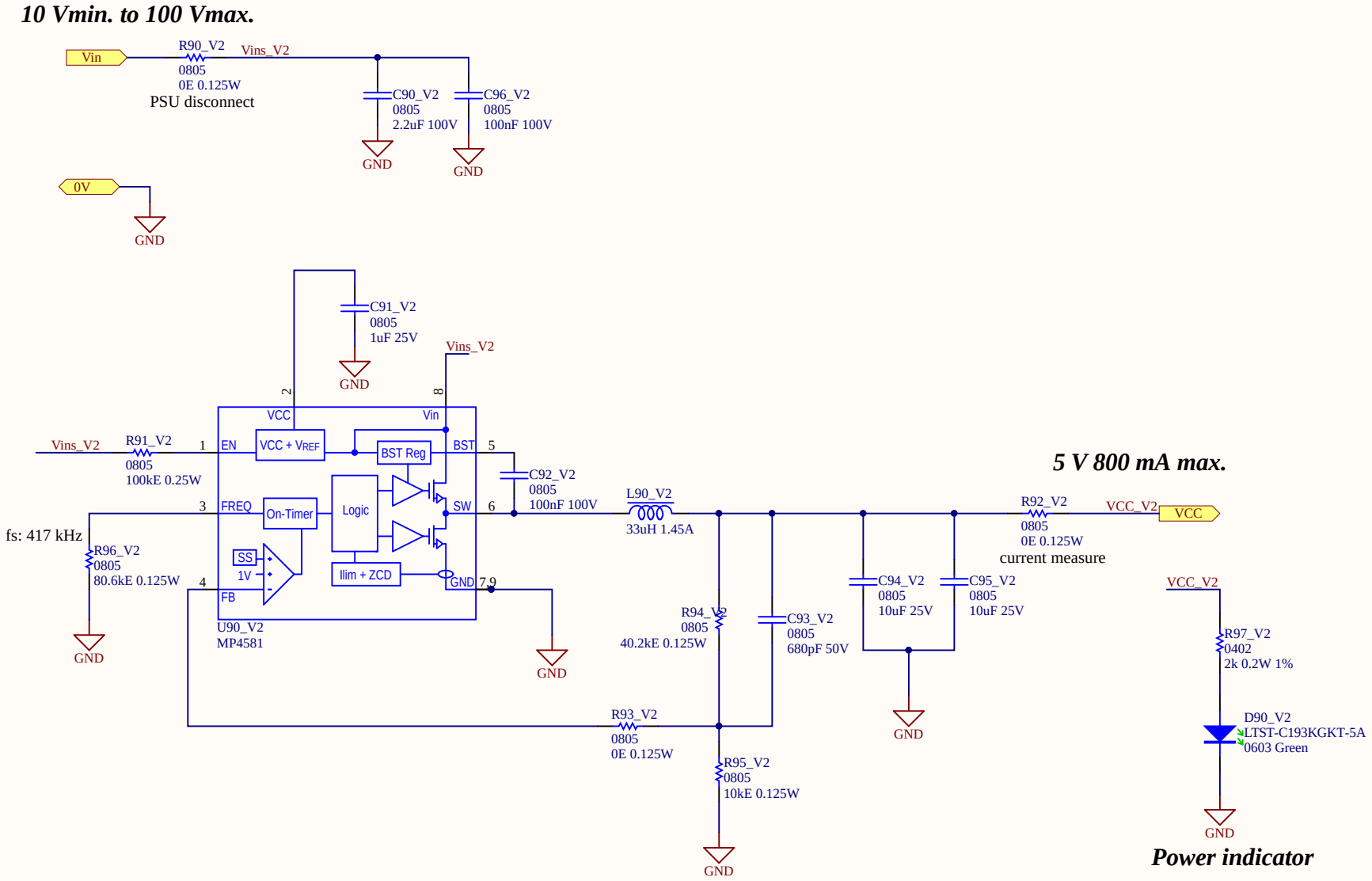

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Design #:	AP1061 Rev. 1.0	
Revision	1.0	
Date: 9/7/2023	Sheet 6 of 1	
File: AP1061_Rev1_0_100V_to 5V_PSU.SCHDOC		

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