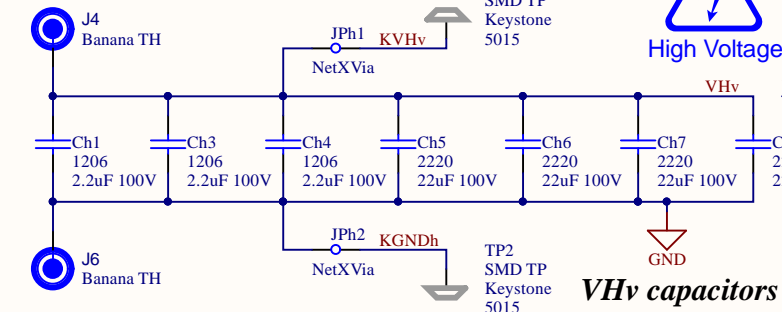
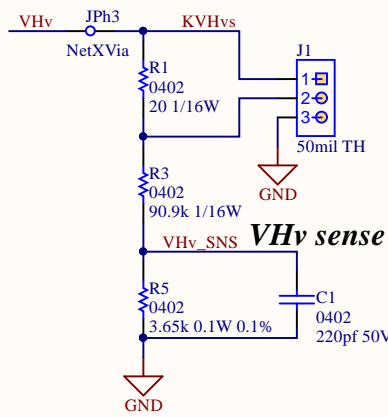


VHv = 10V - 80V

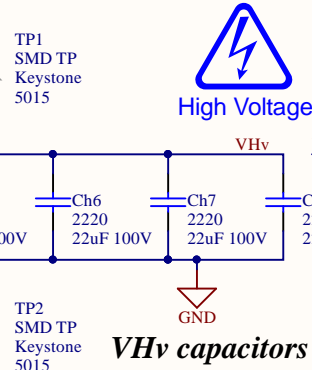
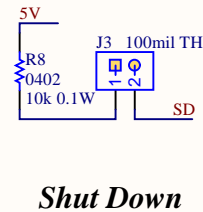
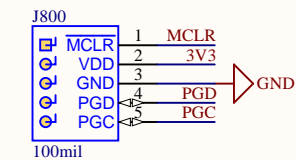
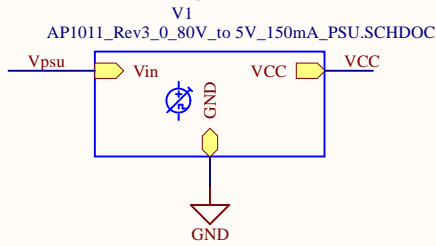
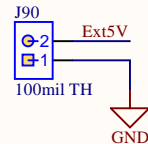


IHv=13A max

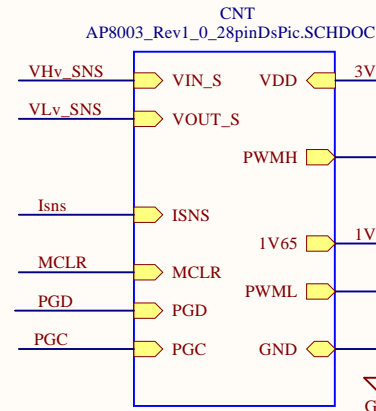
Bode Measurement



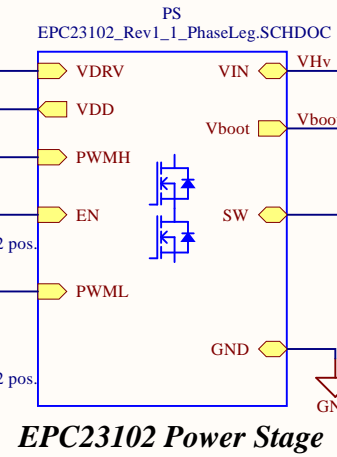
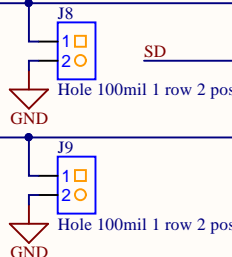
External 5V Input
5.5V max



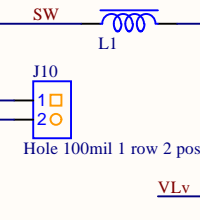
VHv capacitors



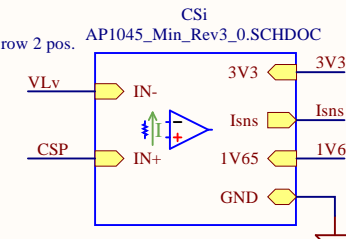
PWM Probes



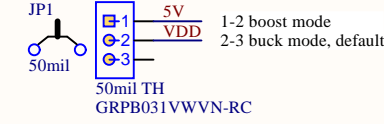
SW Probe



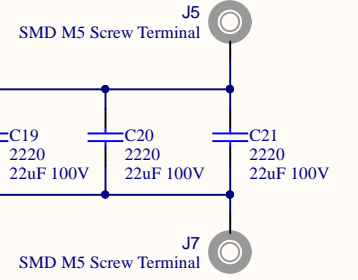
Current sense



VLv = 10V - 65V

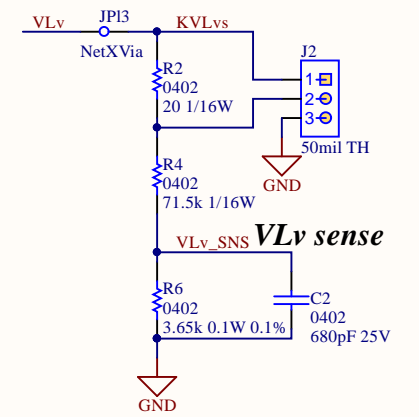


VLv capacitors

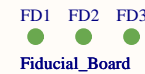
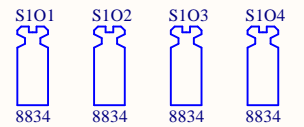
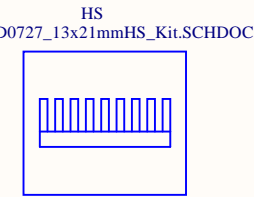
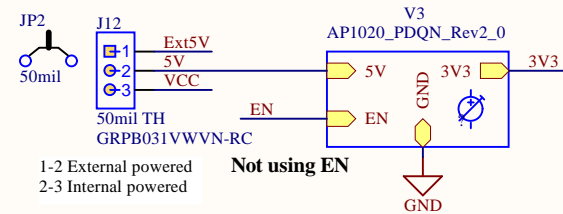


ILv=20A max


Bode Measurement

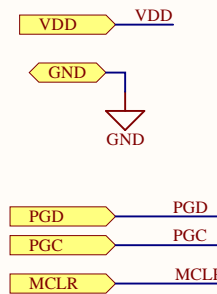


3V3 Regulator

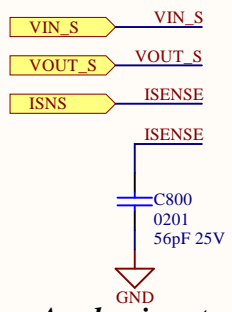


For evaluation only;
not FCC approved for resale

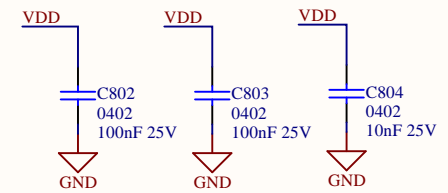
Title: EPC23102 Compact Synchronous Buck Converter		© EPC 2023
Design #: EPC9177	PCB #: B5346	Efficient Power Conversion 909 Sepulveda Blvd. Ste 230 El Segundo, CA 90245 U.S.A. www.epc-co.com 
Revision: 2.0	Revision: 2.0	
Date: 10/23/2023	Sheet: 1 of 7	
File: EPC9177_B5346_Rev2_0.SCHDOC		



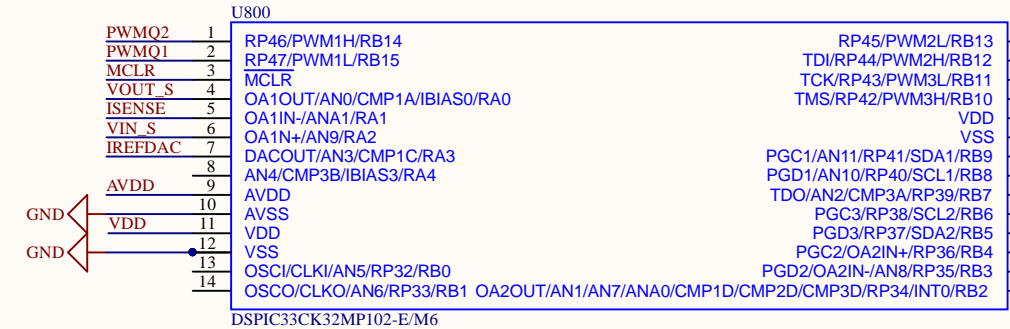
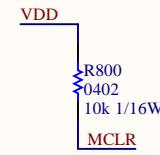
Programming



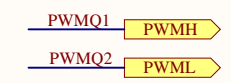
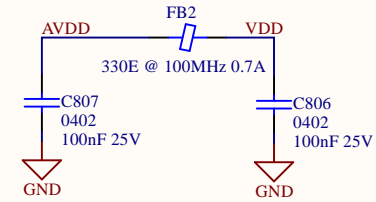
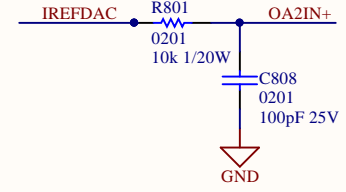
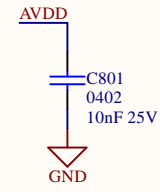
Analog inputs



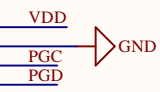
3.3V Decoupling caps



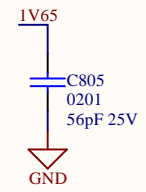
Information text



PWM outputs

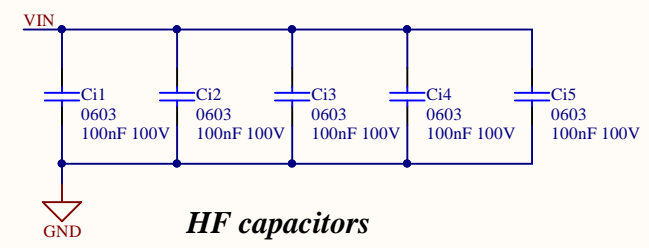
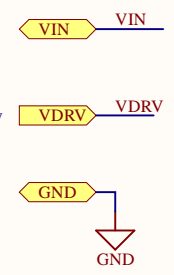


Reference OpAmp

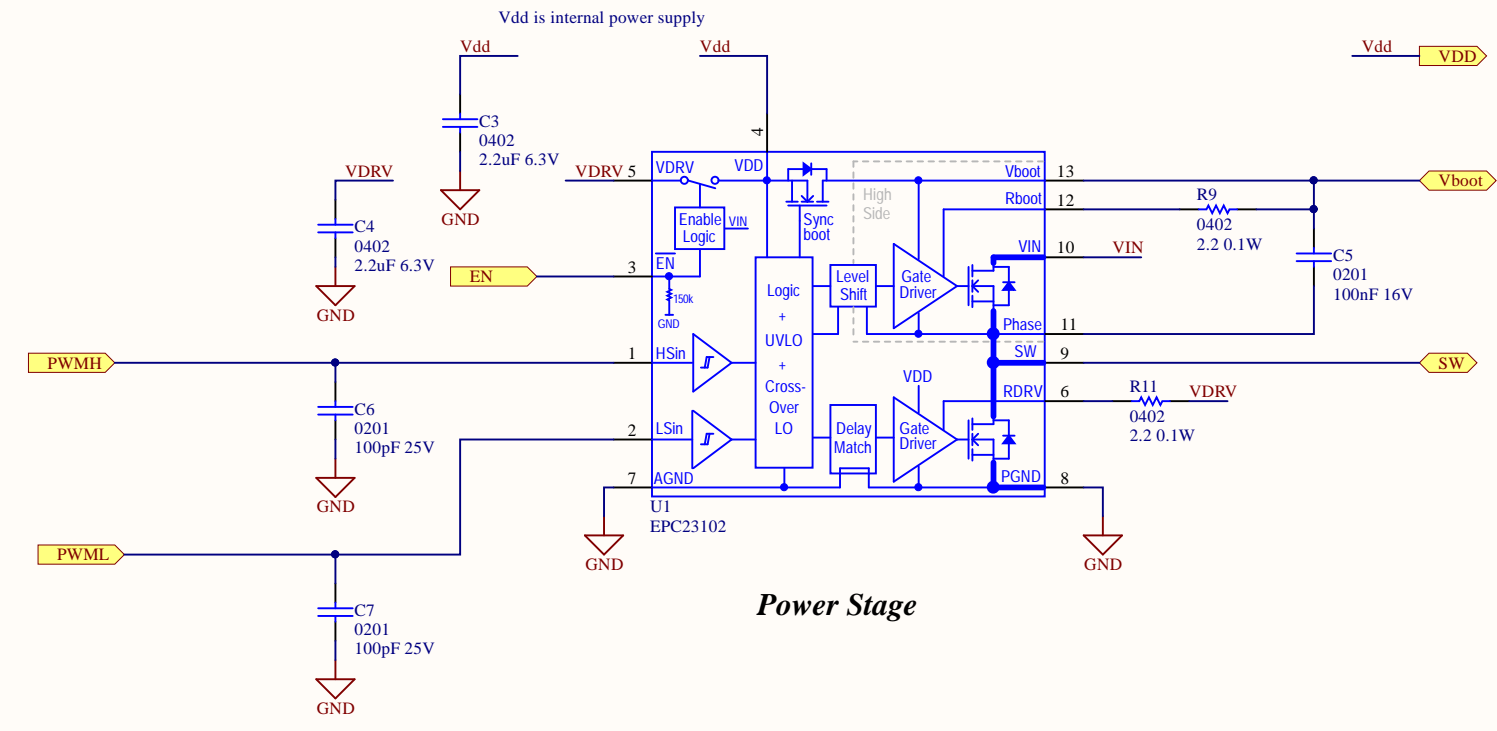


**DC Input
80 Vmax.**


VDRV is external 5V power supply

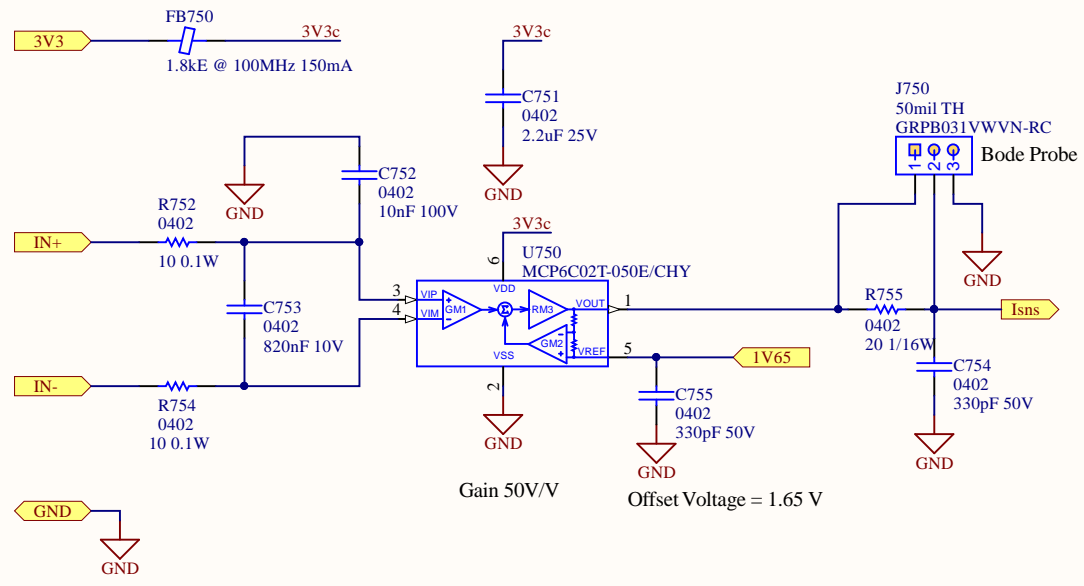



HF capacitors

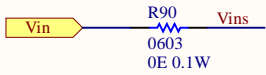


Power Stage

Title: Symmetrical Phase Leg With Synchronous Boot Strap		© EPC 2023
Design #: Half-Bridge Phase Leg	Efficient Power Conversion	
Revision 1.1	P/N#: EPC23102	909 Sepulveda Blvd. Ste 230 El Segundo, CA 90245 U.S.A.
Date: 9/26/2023	Sheet 3 of 7	 EFFICIENT POWER CONVERSION
File: EPC23102_Rev1_1_PhaseLeg.SCHDOC		www.epc-co.com

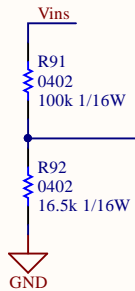
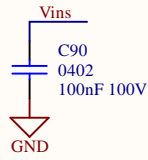
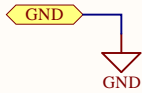


Title: Bi-Directional 65 V Current Sense Amplifier (Compact version)		© EPC 2023
Design #: AP1045		Efficient Power Conversion 909 Pacific Coast Hwy. Ste 230 El Segundo, CA 90245 U.S.A. www.epc-co.com 
Revision 3.0		
Date: 10/23/2023	Sheet 4 of 7	
File: AP1045_Min_Rev3_0.SCHDOC		

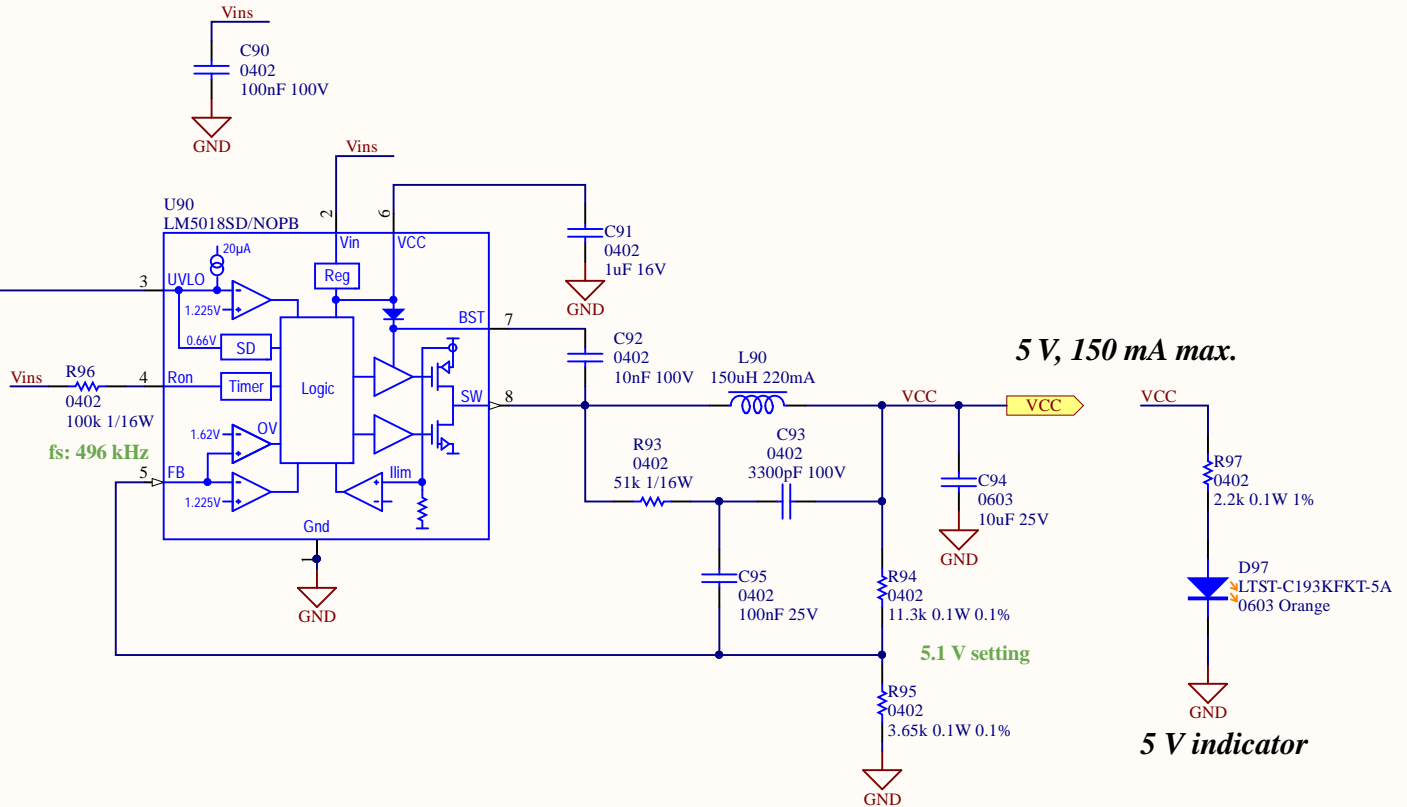


PSU disconnect

9 V_{min.} to 80 V_{max.}



UVLO Settings:
8.8 V on, 2.0 V hysteresis

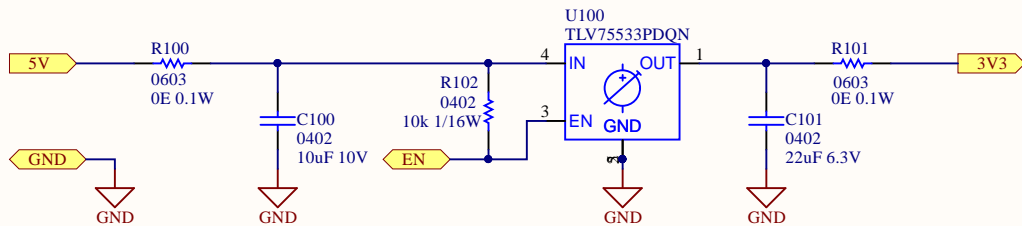


5 V, 150 mA max.

5.1 V setting

5 V indicator

Title: 80 V to 5 V 150mA Housekeeping Power Supply		© EPC 2023
Design #: AP1011		Efficient Power Conversion 909 Pacific Coast Hwy. Ste 230 El Segundo, CA 90245 U.S.A. www.epc-co.com
Revision 3.0		
Date: 9/26/2023	Sheet 5 of 7	
File: AP1011_Rev3_0_80V_to_5V_150mA_PSU.SCHDOC		



Title: 5 V to 3.3 V Compact LDO power supply © EPC 2023

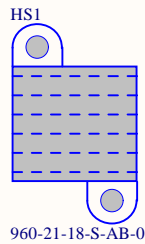
Design #: AP1020

Revision 2.0

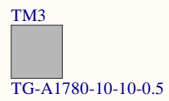
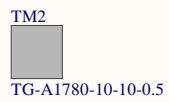
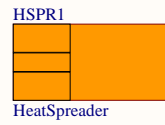
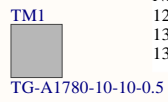
Date: 9/26/2023 Sheet 6 of 7

File: AP1020_PDQN_Rev2_0.SCHDOC

Efficient Power Conversion
 909 Pacific Coast Hwy. Ste 230
 El Segundo, CA 90245
 U.S.A.
www.epc-co.com



Needed TIMs:
 12mm X 5mm for eGAN IC
 13mm X 13mm for inductor
 13mm X 21mm for Heat spreader



Title: Custom heatsink kit forD0717 13X21mm design		© EPC 2023
Design #: D0727_13x21mmHS		Efficient Power Conversion 909 Pacific Coast Hwy. Ste 230 El Segundo, CA 90245 U.S.A. www.epc-co.com
Revision 1.0		
Date: 10/23/2023	Sheet 7 of 7	
File: D0727_13x21mmHS_Kit.SCHDOC		