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File: HPDriver.sch

**Title: High Power Stepper Driver**

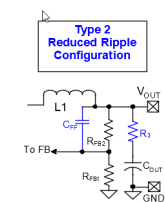
Size: A4 Date: 2019-12-19

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Rev: 1.0

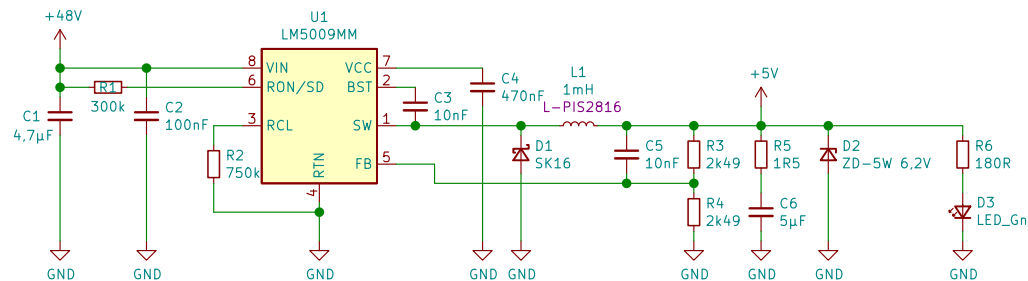
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Type 1 Output Ripple Configuration shown



Step 3. Summary			
$R_{in}$	2.49	kohms	These two resistors set the output voltage.
$R_1$	2.49	kohms	
$R_2$	300	kohms	Sets the switching frequency.
$L_1$	1000	$\mu$ H	Determines the ripple current.
$R_s$	750	kohms	Sets the off-time in current limit.
Output Ripple Configuration	Type 2		Affects the amount of ripple at $V_{out}$ .
$R_3$	1.5	Ohms	Sets the ripple amplitude at $V_{out}$ .
$CR$	10000	$\mu$ F	Ripple bypass for Type 2
$C_{out}$	5	$\mu$ F	
$C_{in}$	3.3	$\mu$ F	
$C_{sw}$	0.1	nF	See Note 1.
$C_{DS}$	0.47	nF	
$C_{SD}$	0.01	$\mu$ F	
$V_{out}$	5.80	Volts	
Nominal Switching Frequency	133	kHz	

Notes: 1) Values shown for  $C_{TYP}$ ,  $C_{VCC}$ , and  $C_{BST}$  are default values, and do not require calculation.



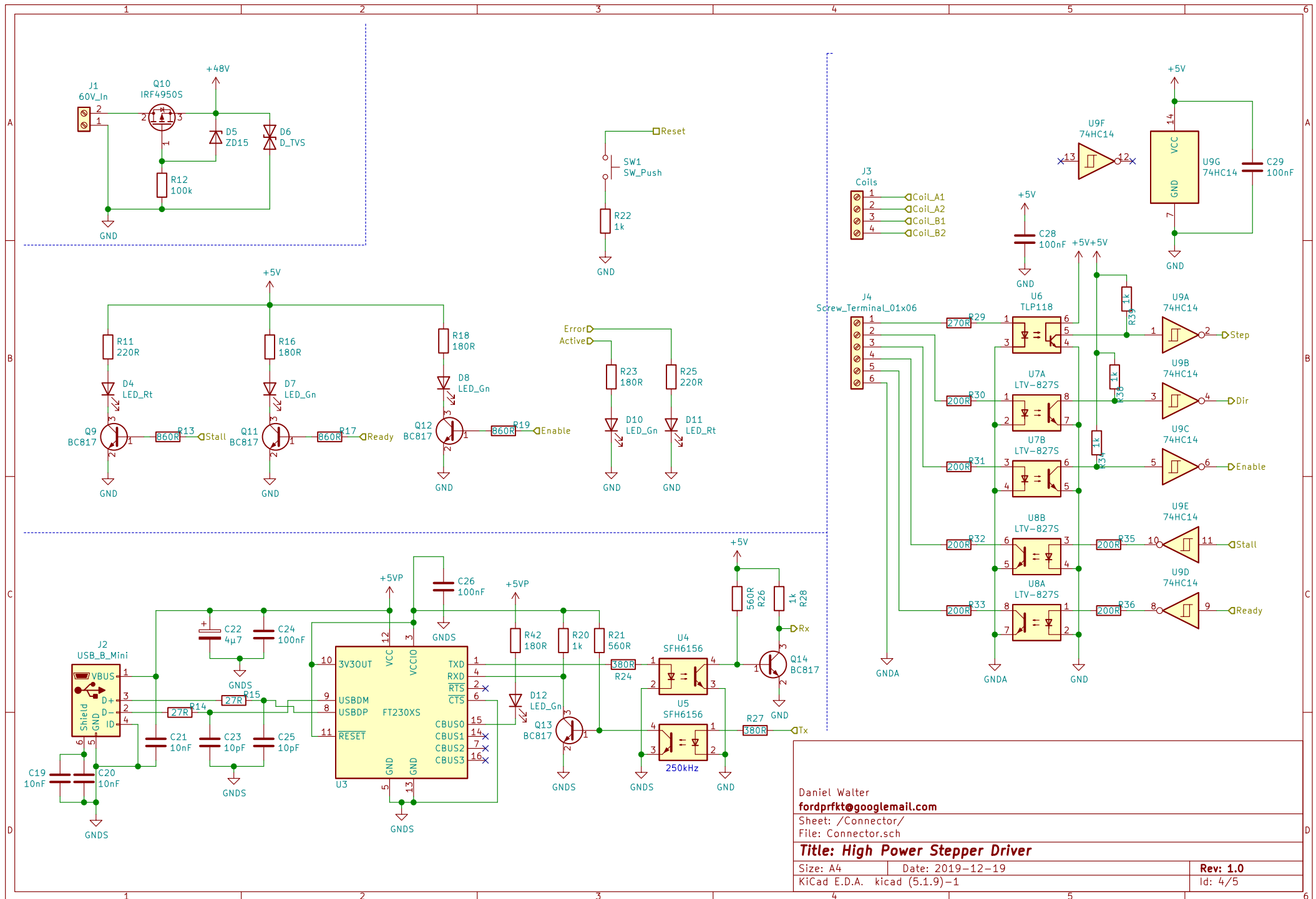
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Sheet: /Connector/  
File: Connector.sch

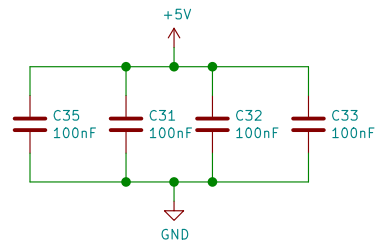
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