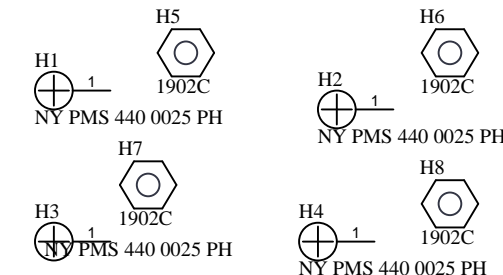


36-60VDC

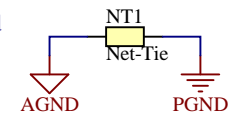
VOUT

Add C42A thru J or 9 added caps between VOUT+ and VOUT- near C42, C35, C29, C33

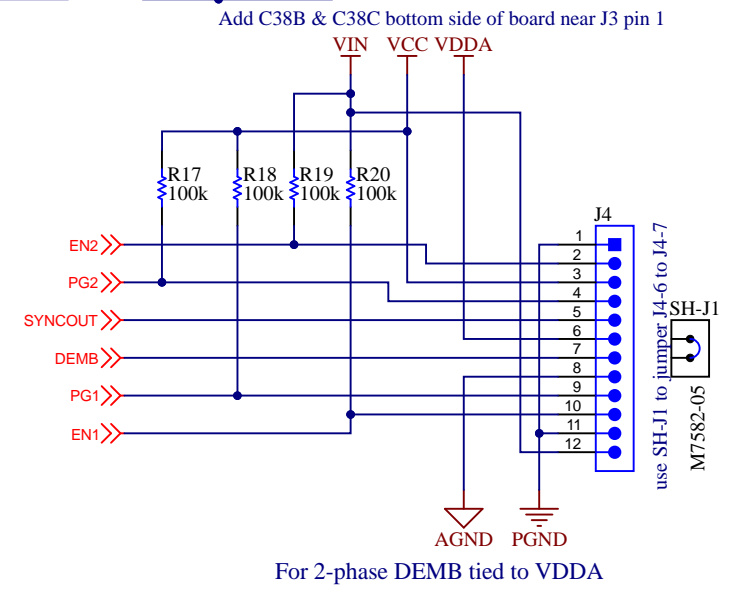


Add D3* by hand.

FB1 grounded for 5V output
 Compensation (R21 & C47) adjusted for 25kHz crossover with >60 degrees phase margin & >11dB gain margin
 C43 from COMP1 to AGND not needed



Note A: When using Cynotec VCUD128T-1R5MS8 for L2 & L3: R7 & R8 become capacitor size 0603, X7R and 47nF 50V
 Alternatively, increase C28 & C34 each to 220nF and omit R7 & R8.



Orderable: ChangeMe in variant	Designed for:	Mod. Date: 9/27/2023
TID #: PMP23404	Project Title: 48V to 5V 60A Automotive	
Number: PMP23404	Rev: A	Sheet Title: LM25143-Q1 Two Phases
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 1 of 1
Drawn By:	File: 48Vto5V_60A.SchDoc	Size: B
Engineer: Josh Mandelcorn	Contact: http://www.ti.com/support	

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