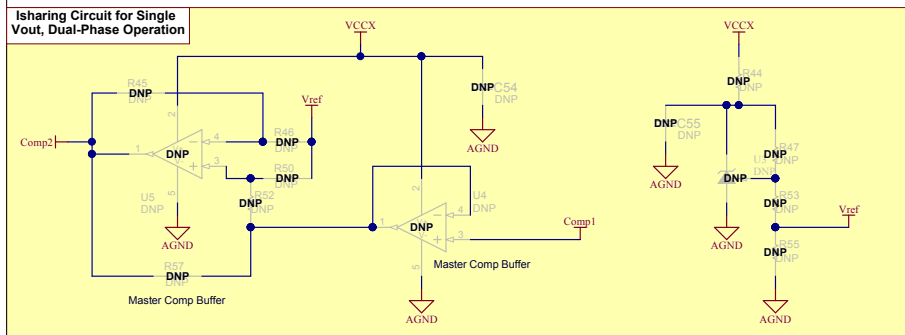


Input Voltage = 6Vin to 18Vin  
(4.3Vin Min.; 42Vin Peak)

3.8Vout @ 8A Max. (14A Peak)

3.8Vout @ 8A Max. (14A Peak)



**\*NOTES:**

1. An external 5V should be connected to the VCCX testpoint in order to minimize temperature rise of controller if operating at high ambient temperature environments. 5V supply must be able to source approximately 150mA to 200mA.
2. R5a, R5b, and R5c can be replaced with a single 0.33 ohm resistor rated at 1/4W.
3. R4a and R4b, as well as R24a and R24b, can be replaced by a single 4mOhm resistor for each paralleled pair. This 4mOhm resistor needs to be rated at least 1W (2W recommended).
4. D11 can be replaced with a 0ohm resistor (or wire). If doing so, make sure that D12 and D13 are both NOT installed.
5. If synchronizing the controller to an external clock source, make sure to have the signal swing above 2.4V in order to register a "HIGH" and below 0.4V in order to register a "LOW". For further details, refer to the datasheet.

Orderable: N/A	Designed for: PMP10655	Mod. Date: 1/25/2016
TID #:	Project Title: LM5140 Dual Output Sync Buck (Automotive)	Sheet Title: Schematic
Number: PMP10655	Rev: E1	Assembly Variant: 001
SVN Rev: Version control disabled	File: PMP10655 Schematic REV1 SchDoc	Size: C
Drawn By: Engineer: Hrag Kasparian	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	

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H1 NY PMS 440 0025 PH H2 NY PMS 440 0025 PH H3 NY PMS 440 0025 PH H4 NY PMS 440 0025 PH

H5 1902C H6 1902C H7 1902C H8 1902C

DNP FID1 DNP FID2 DNP FID3 DNP FID4 DNP FID5 DNP FID6

PCB Number: PMP10655  
PCB Rev: E1

PCB  
LOGO  
Texas Instruments



DANGER HIGH VOLTAGE



CAUTION HOT SURFACE

Label Table

Variant	Label Text
001	

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Orderable: N/A	Designed for:	Mod. Date: 1/21/2016	<p>TEXAS INSTRUMENTS http://www.ti.com © Texas Instruments 2015</p>
TID #: PMP10655	Project Title: LM5140 Dual Output Sync Buck (Automotive)		
Number: PMP10655	Rev: E1	Sheet Title: Hardware	
SVN Rev: Version control disabled	Assembly Variant: 001	Sheet: 2 of 2	
Drawn By:	File: PMP10655_TID_Hardware.SchDoc	Size: B	
Engineer: Hrag Kasparian	Contact: http://www.ti.com/support		

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