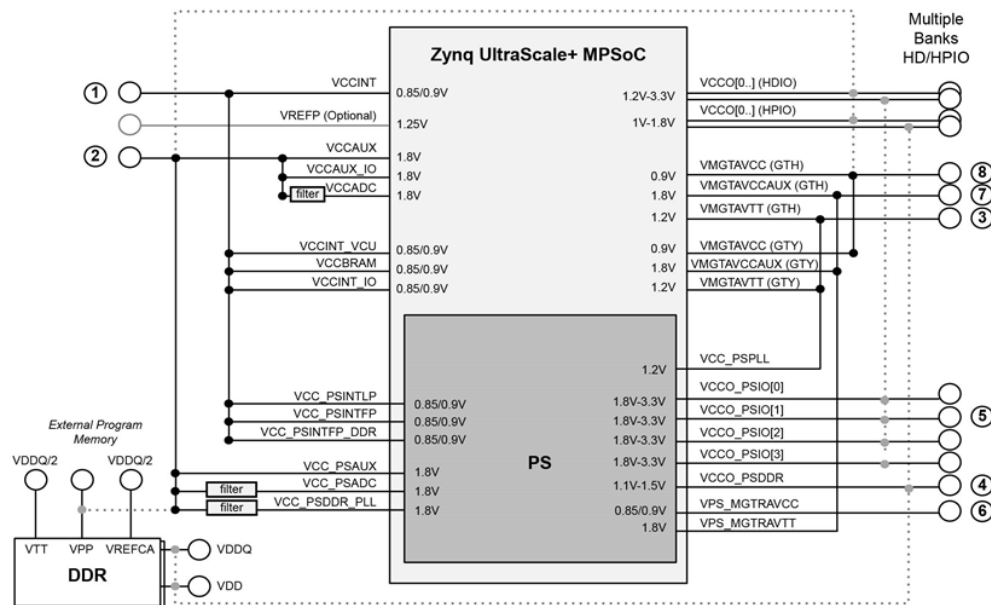
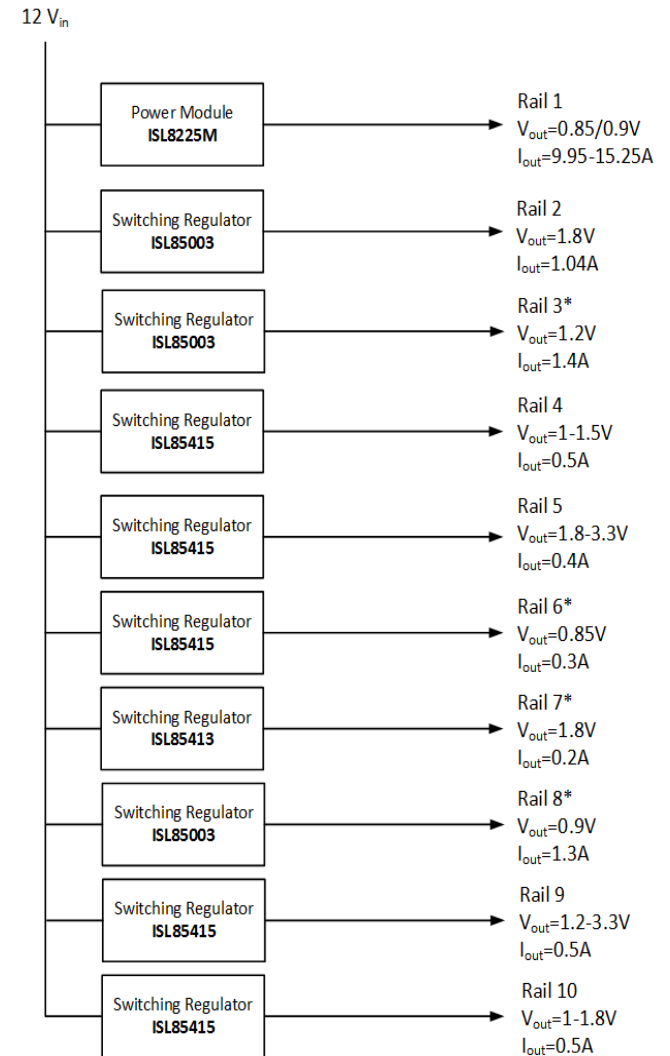


USECASE 1 #2



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Rail	Voltage	Power Supply Rails
Rail 1	0.85/0.9V	VCCINT, VCCINT_VCU, VCCBRAM, VCCINT_IO, VCC_PSINTLP, VCC_PSINTFP, VCC_PSINTFP_DDR
Rail 2*	1.8V*	VCCAUX, VCCAUX_IO, VCCADC, VCC_PSAUX, VCC_PSDDR_PLL, VCC_PSADC
Rail 3*	1.2V*	VMGTAVTT(GTH), VMGTAVTT(GTY), VCC_PSPLL
Rail 4	1-1.5V	VCCO_PSDDR, DDR_VDD2, DDR_VDDQ
Rail 5	1.8-3.3V	VCCO_PSI0
Rail 6*	0.85/0.9V	VPS_MGTRAVCC
Rail 7*	1.8V*	VMGTAVCCAUX(GTH), VMGTAVCCAUX(GTY), VPS_MGTRAVTT
Rail 8*	0.9V*	VMGTAVCC(GTH), VMGTAVCC(GTY)
Rail 9	1.2-3.3V	HDIO VCCO
Rail 10	1.0-1.8V	HPIO VCCO

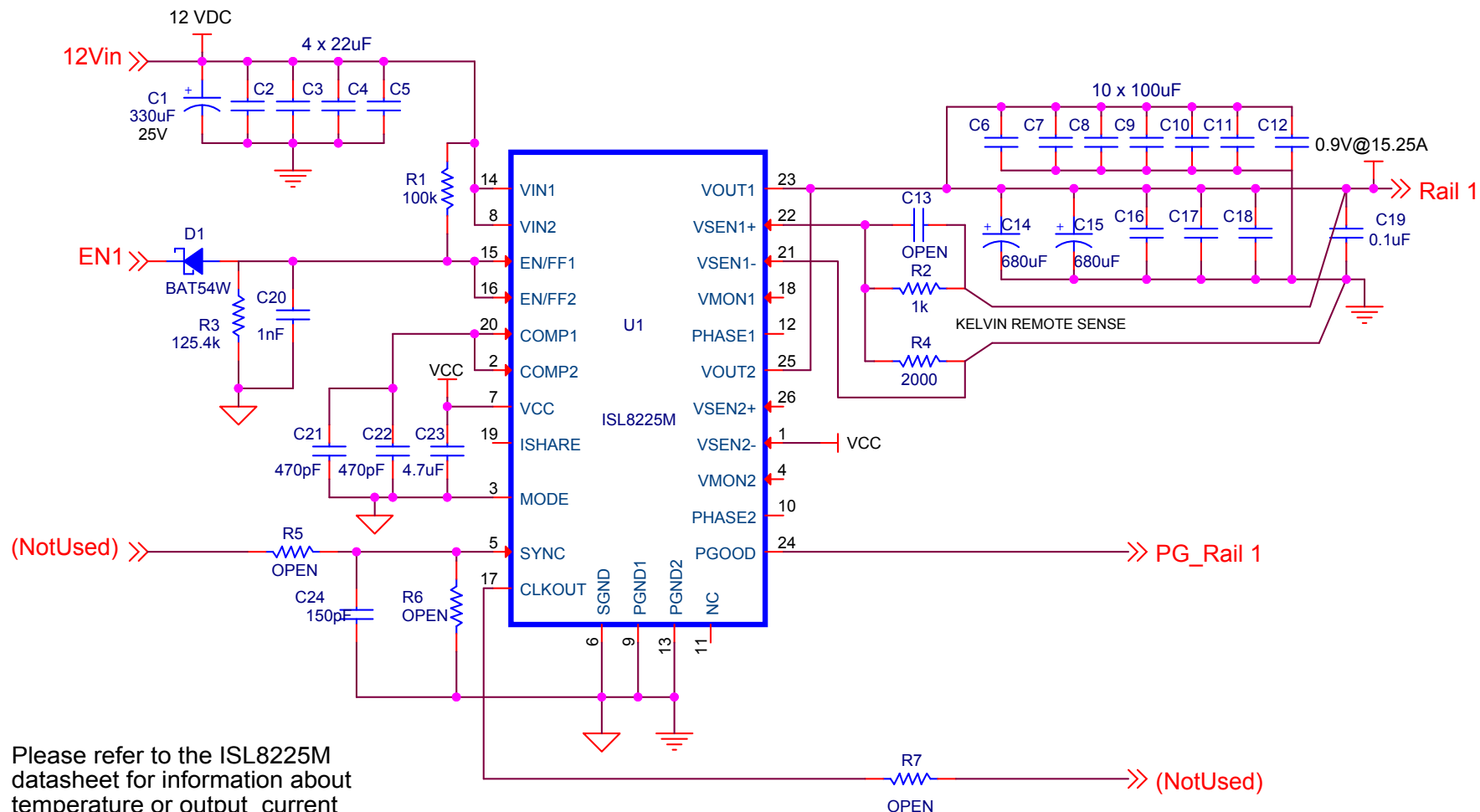


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Title ZYNQ US+ MPSoC Power Rails		
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ISL8225M SINGLE OUTPUT (40A)

VIN RANGE:
4.5V to 20V



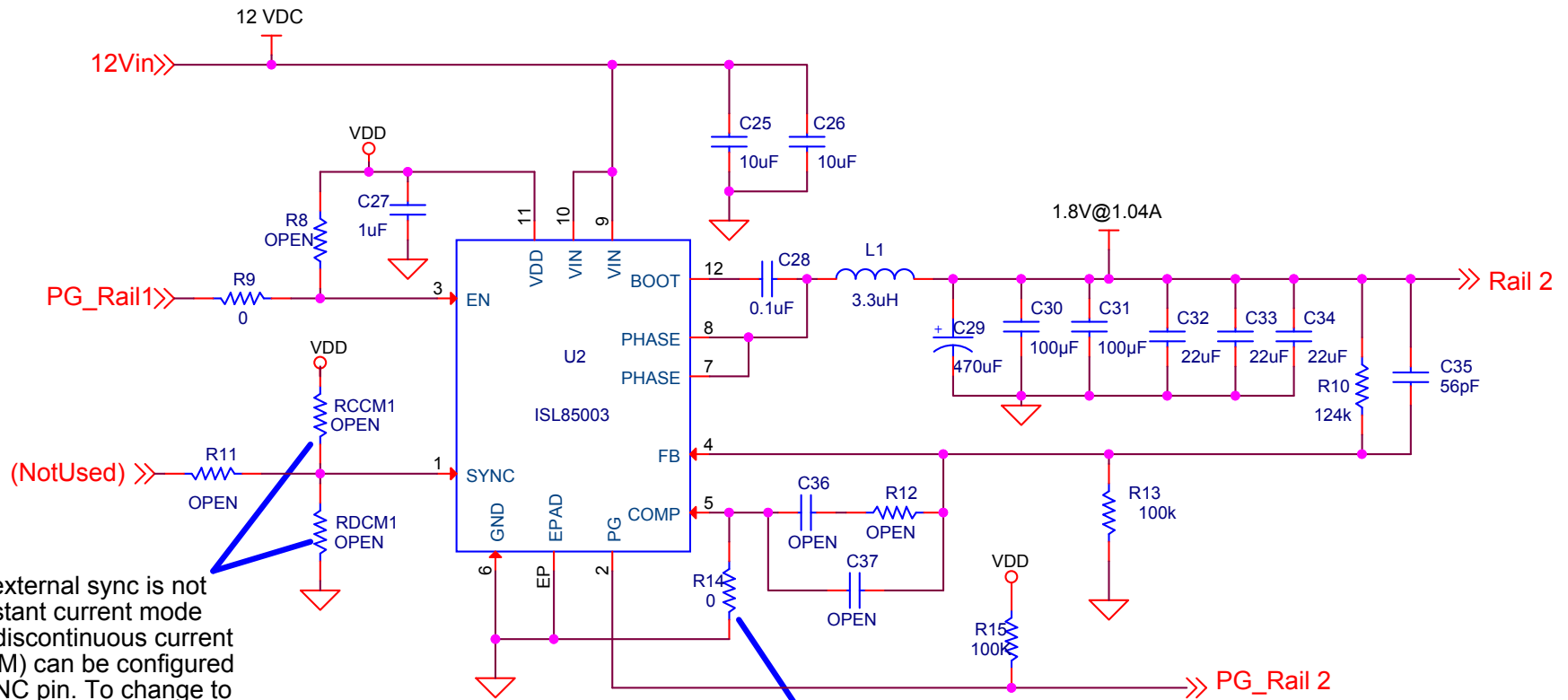
Title
ISL8225M-Single-1

Size A Document Number
<Doc>

Date: Sheet 2 of 11

Rev
<RevCo>

ISL85003 SINGLE OUTPUT (3A)



When an external sync is not used, constant current mode (CCM) or discontinuous current mode (DCM) can be configured on the SYNC pin. To change to DCM mode, remove RCCM, and change RDCM to 0 ohms.

If custom compensation is desired, remove the ground connection on the COMP pin to enable external compensation.

OPEN value components on the COMP pin are place holders if external compensation is used.

Programmable Soft Start is available in the ISL85003A (without synchronization)

Title		
ISL85003-SINGLE-1		
Size	Document Number	Rev
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Date:	Thursday, March 09, 2017	Sheet 3 of 11

12VDC

12Vin

VDD

R16 OPEN

C40 1uF

R17 0

Rail 8**

VDD

RCCM2 OPEN

R19 OPEN

RDCM2 OPEN

sync is not current mode continuous current be configured To change to

U3 ISL85003

EN 3

VDD 11

VIN 10

VIN 9

BOOT 12

PHASE 8

PHASE 7

FB 4

COMP 5

GND 6

EPAD 2

PG 2

C38 10uF

C39 10uF

C41 0.1uF

L2 2.2uH

1.2V@1.4A

C42 1000uF

C43 100uF

C44 100uF

C45 100uF

C46 22uF

C47 22uF

C48 22uF

R18 49.9k

C49 1uF

C50 0.1uF

C51 0.1uF

C52 56pF

Rail 3*

R20 OPEN

C53 OPEN

C54 OPEN

R21 100k

R22 0

VDD

R23 100k

PG_Rail 3*

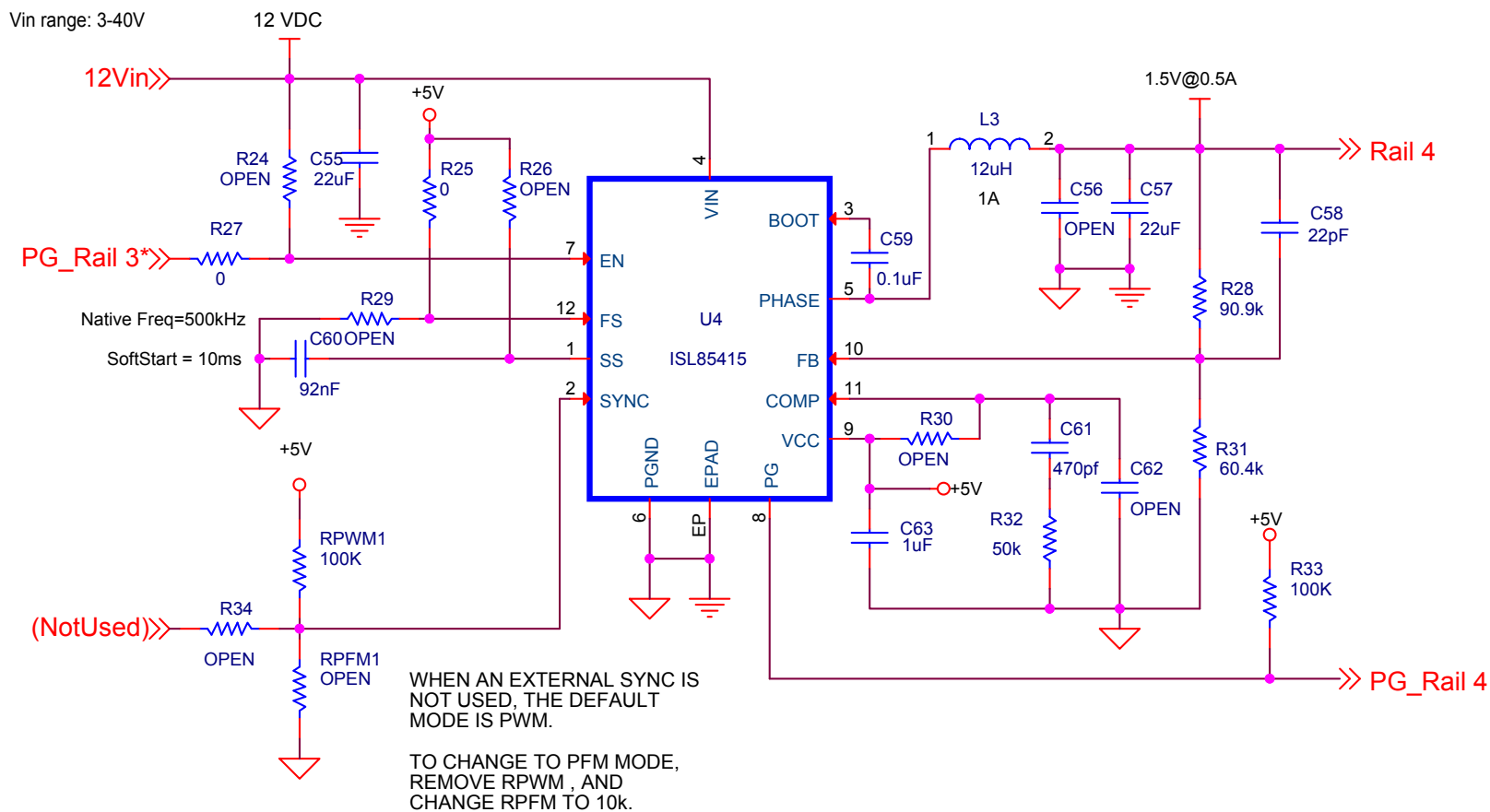
If custom compensation is desired, remove the ground connection on the COMP pin to enable external compensation.

OPEN value components on the COMP pin are place holders if external compensation is used.

Programmable Soft Start is available in the ISL85003A
(without synchronization)

Title				ISL85003-SINGLE-1			
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ISL85415 SINGLE OUTPUT (500mA)



Title
ISL85415-SINGLE-1

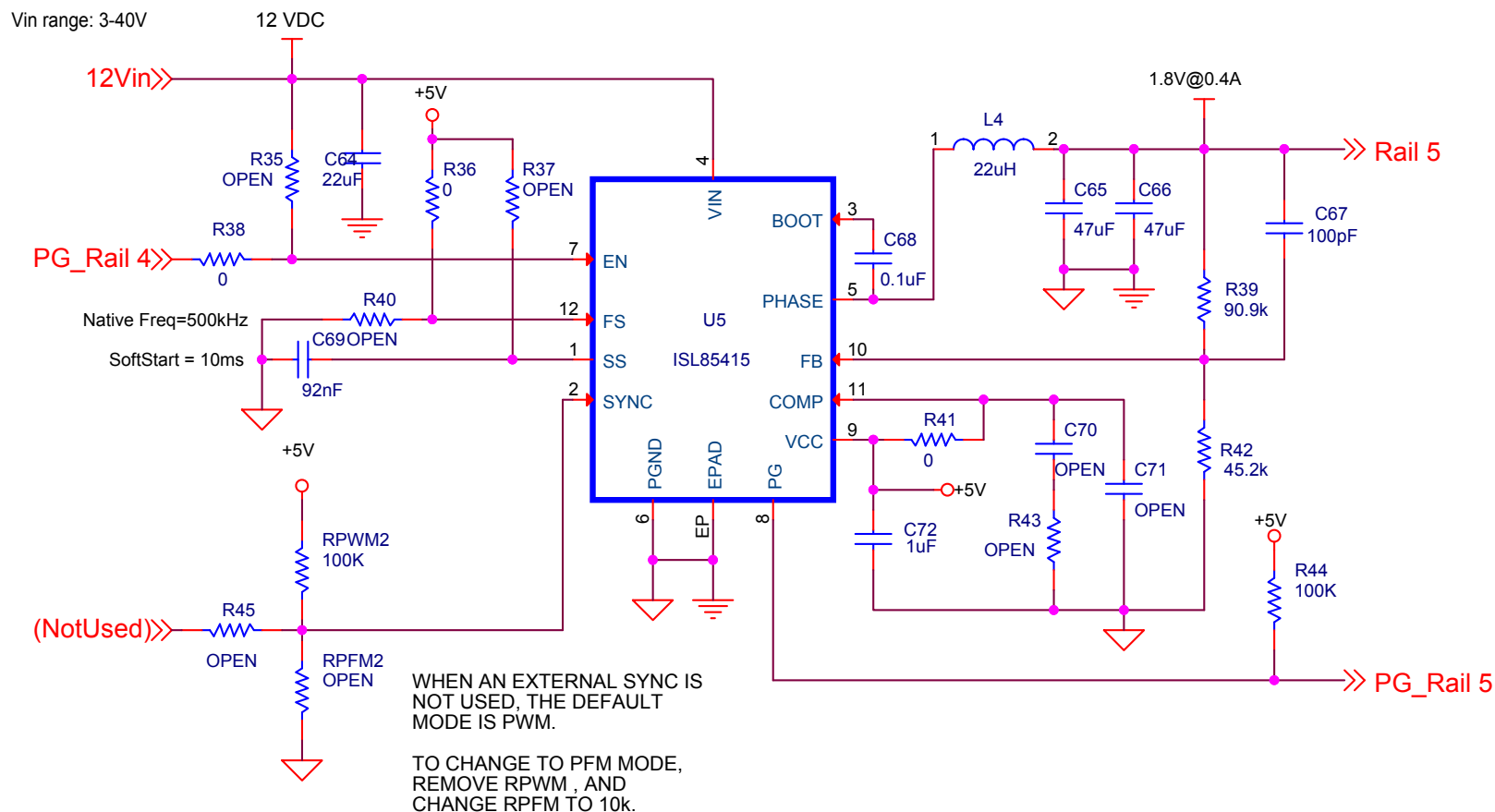
Size A Document Number

Rev

Date: Thursday, March 09, 2017

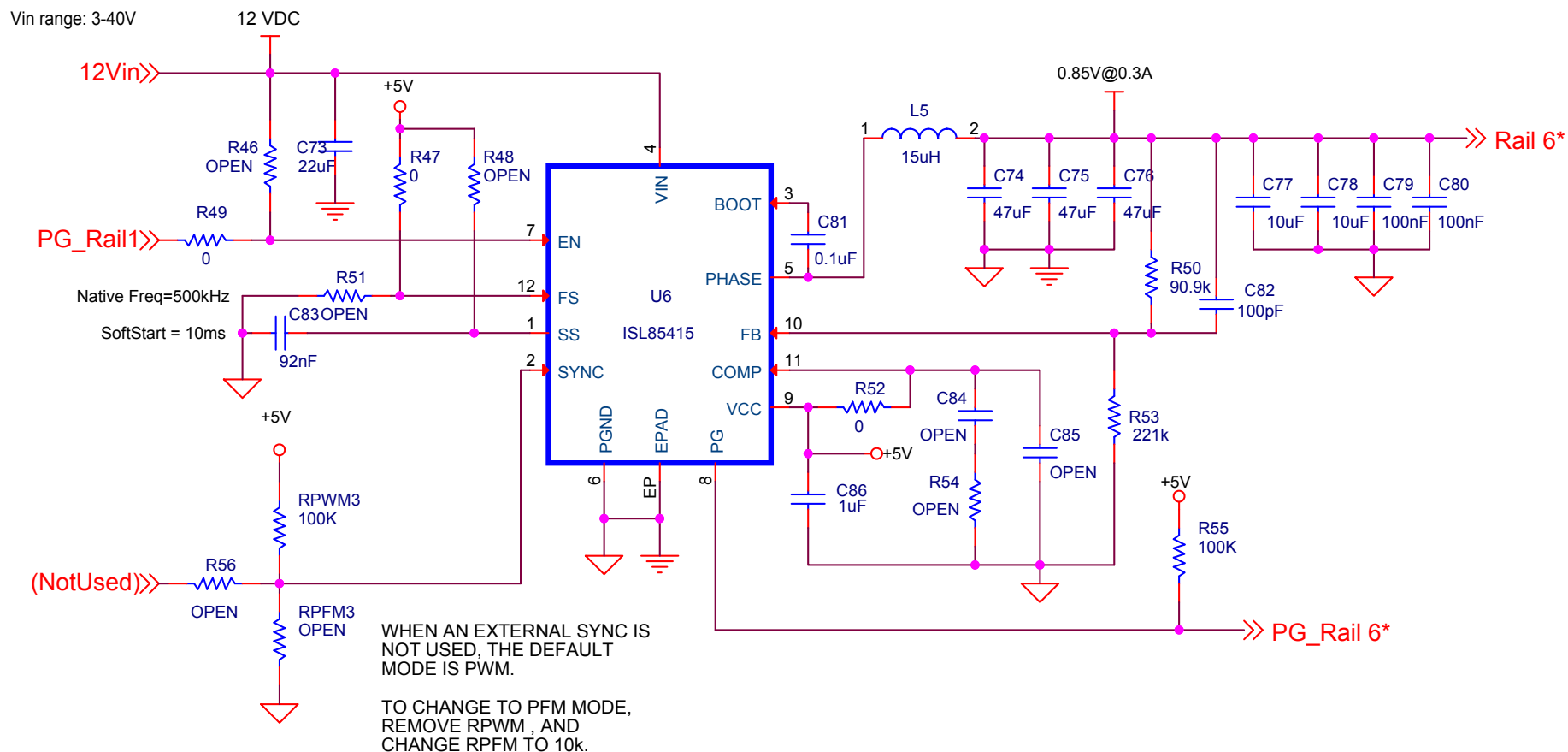
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ISL85415 SINGLE OUTPUT (500mA)



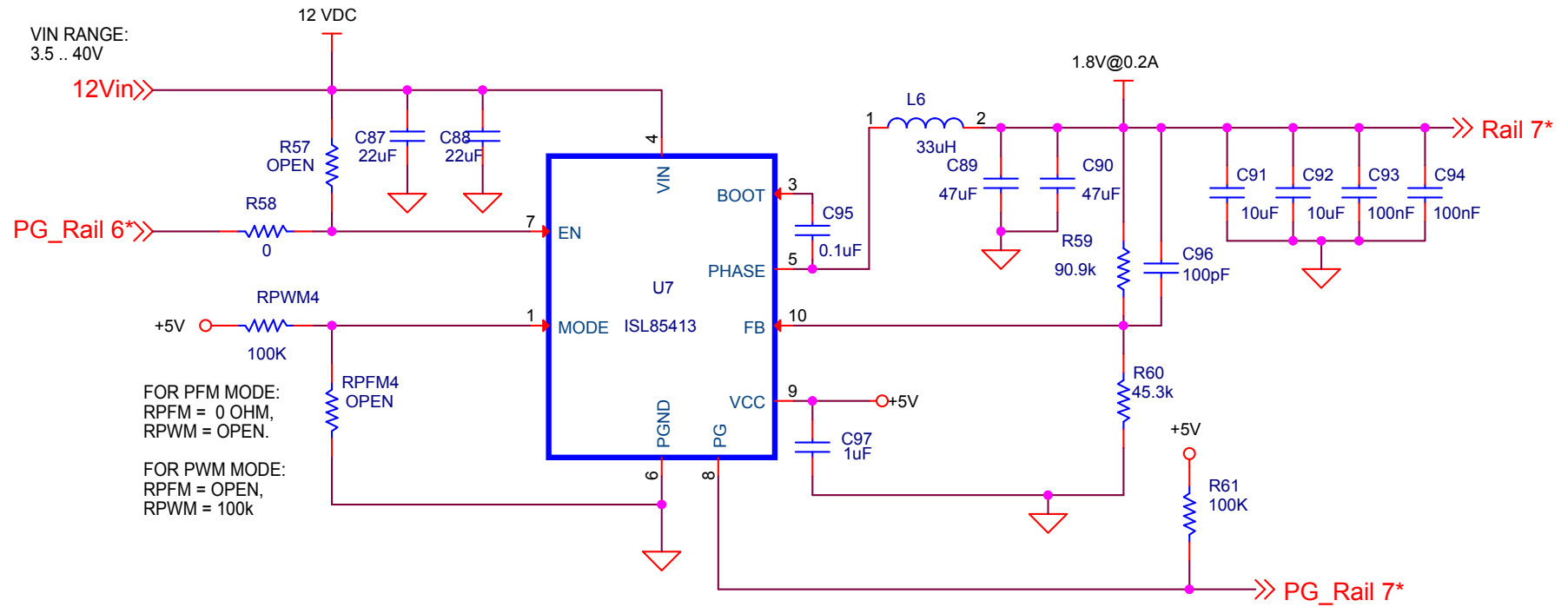
Title		
ISL85415-SINGLE-1		
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ISL85415 SINGLE OUTPUT (500mA)



Title		
ISL85415-SINGLE-1		
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ISL85413 SINGLE OUTPUT (300mA)



Title ISL85413-SINGLE-1

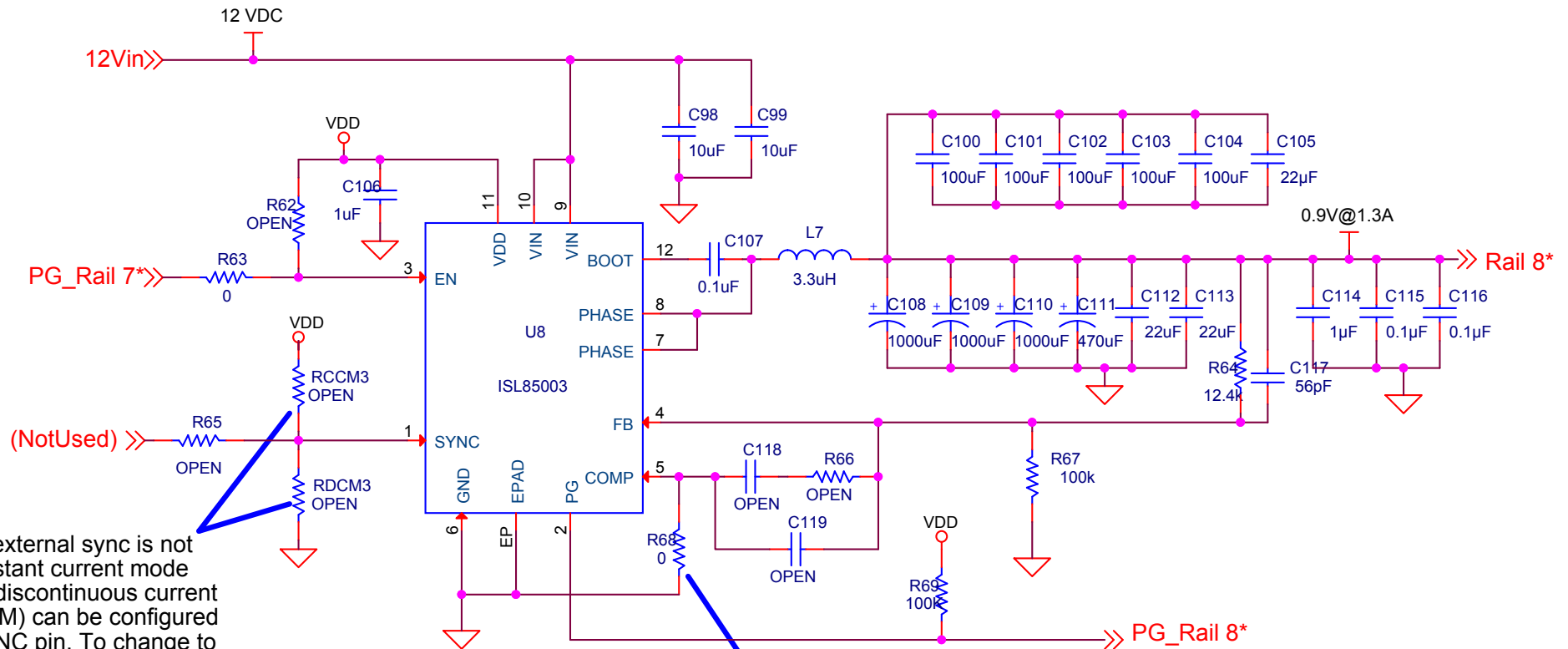
Size A Document Number <Doc>

Rev

Date: Thursday, March 09, 2017

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ISL85003 SINGLE OUTPUT (3A)



When an external sync is not used, constant current mode (CCM) or discontinuous current mode (DCM) can be configured on the SYNC pin. To change to DCM mode, remove RCCM, and change RDCM to 0 ohms.

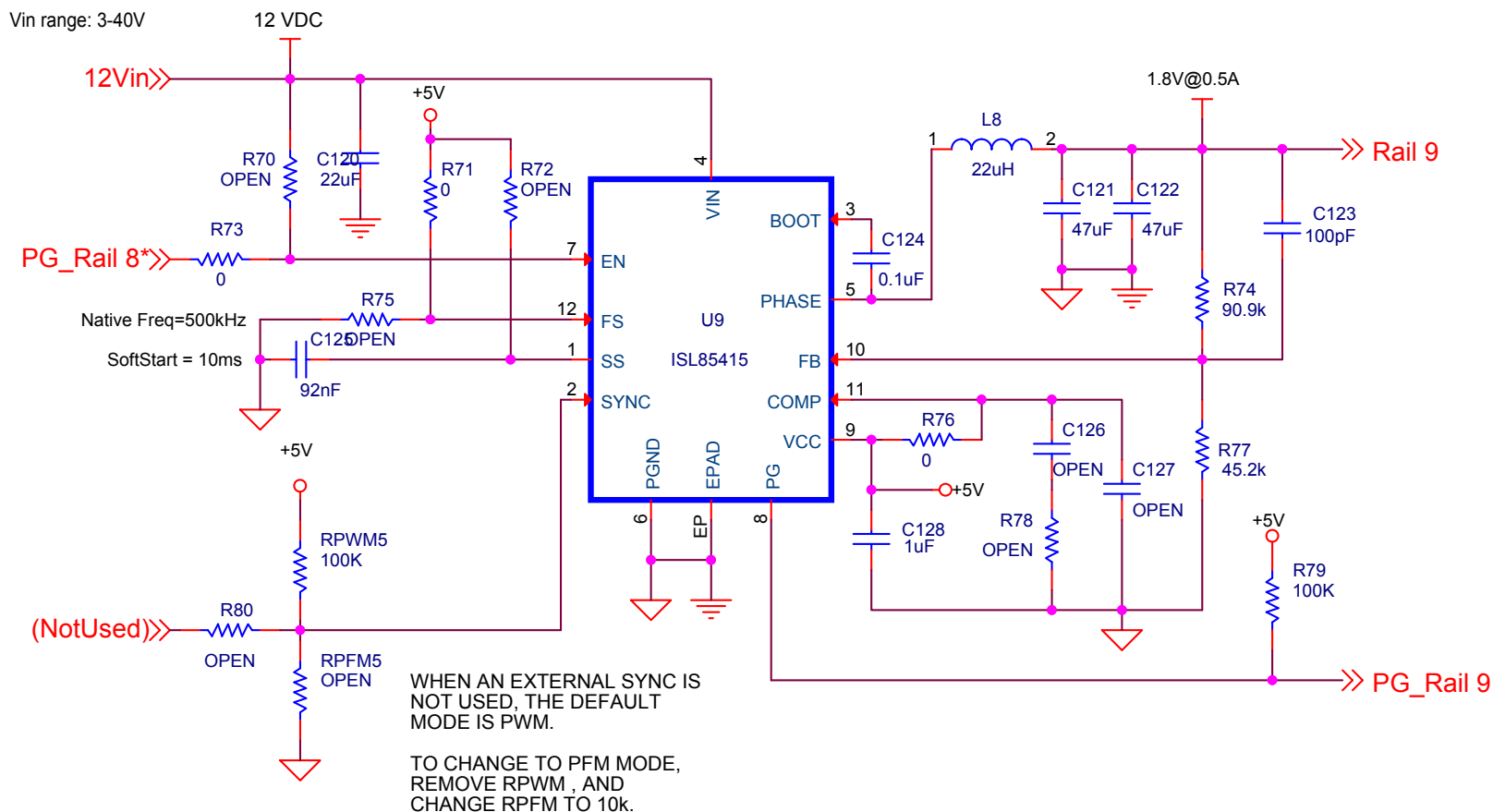
If custom compensation is desired, remove the ground connection on the COMP pin to enable external compensation.

OPEN value components on the COMP pin are place holders if external compensation is used.

Programmable Soft Start is available in the ISL85003A (without synchronization)

Title		
ISL85003-SINGLE-1		
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A	<Doc>	<RevCo>
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ISL85415 SINGLE OUTPUT (500mA)



Title
ISL85415-SINGLE-1

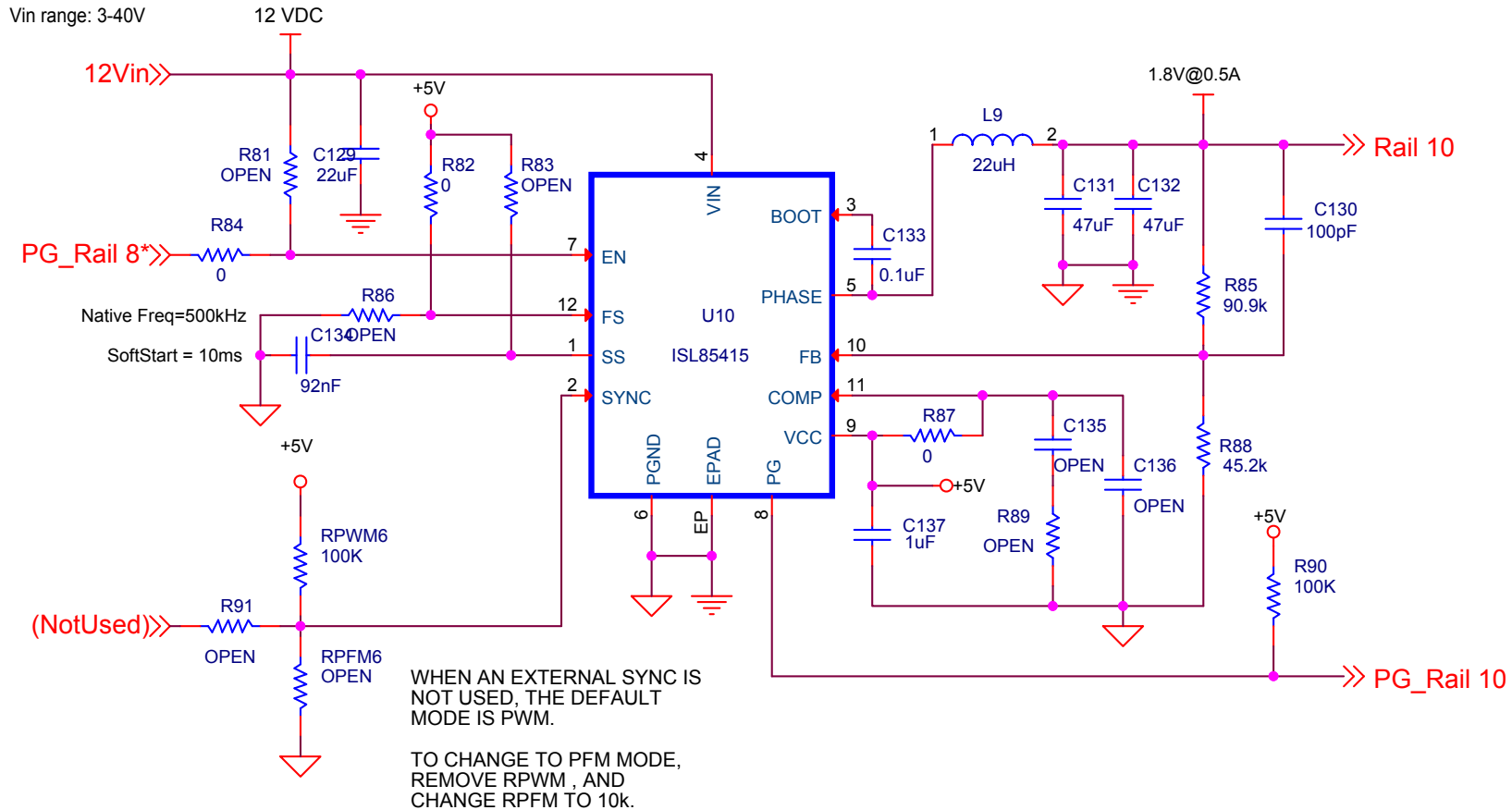
Size A
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ISL85415 SINGLE OUTPUT (500mA)



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