

Block diagram

A

A

B

B

C

C

D

D

Title Block diagram		Lime Microsystems Surrey Tech Centre Guildford GU2 7YG Surrey United Kingdom
Size: A4	Revision: SoDeRa-PCI v1.0	 Lime microsystems
Date: 2015-11-16	Time: 11:41:23	Sheet1 of 15
File: 01_BlockDiagram.SchDoc		

Power diagram

A

A

B

B

C

C

D

D

Title Power diagram		Lime Microsystems Surrey Tech Centre Guildford GU2 7YG Surrey United Kingdom
Size: A4	Revision: SoDeRa-PCI v1.0	
Date: 2015-11-16	Time: 11:41:24	Sheet2 of 15
File: 02_PowerDiagram.SchDoc		 Lime microsystems

Clock diagram

A

A

B

B

C

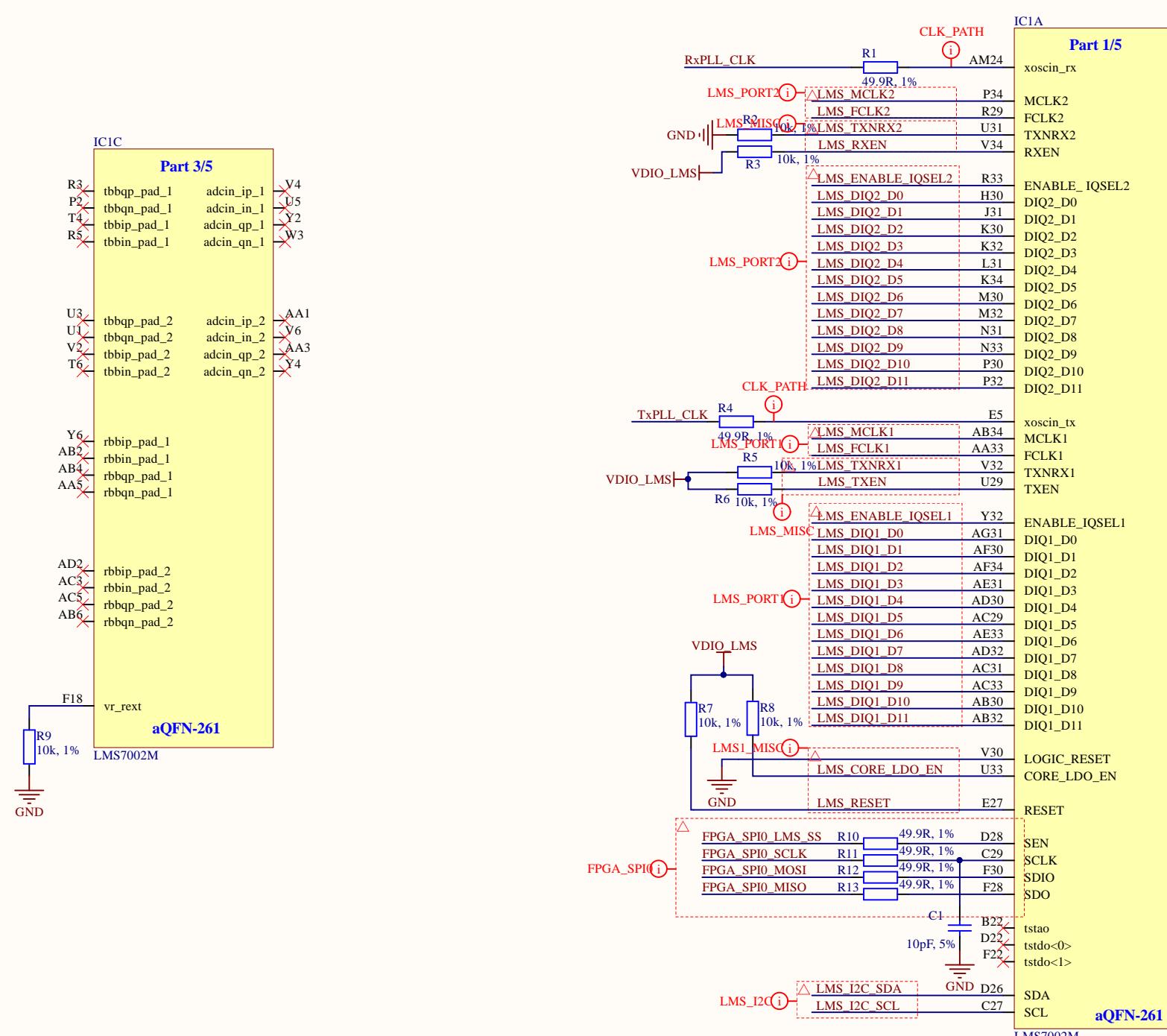
C

D

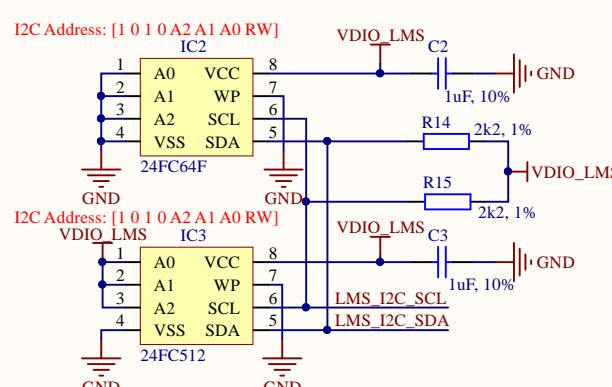
D

Title Clock diagram		Lime Microsystems Surrey Tech Centre Guildford GU2 7YG Surrey United Kingdom
Size: A4	Revision: SoDeRa-PCI v1.0	
Date: 2015-11-16	Time: 11:41:26	Sheet3 of 15
File: 03_ClockDiagram.SchDoc		 Lime microsystems

LMS7002M 1 digital circuit

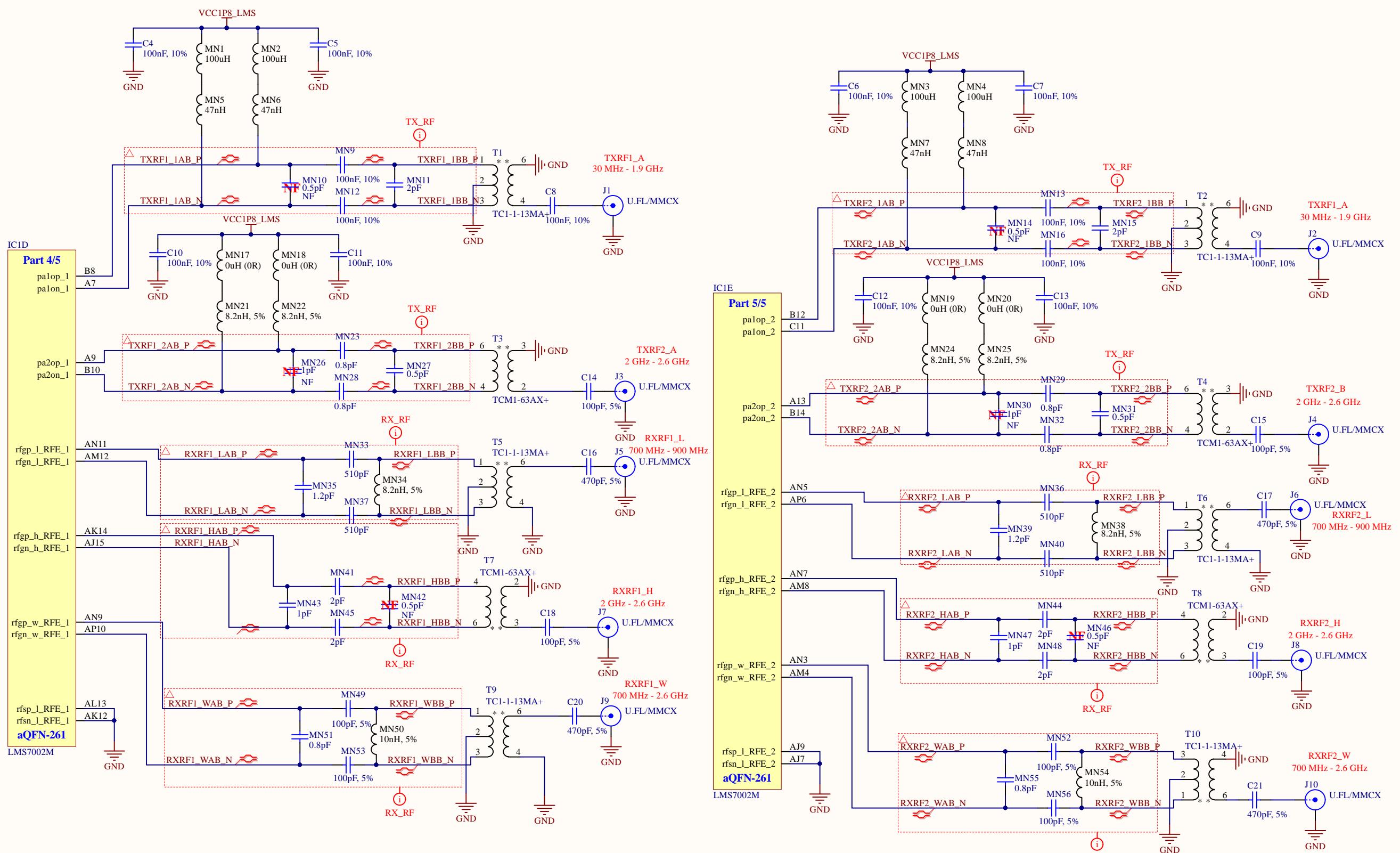


LMS EEPROMs



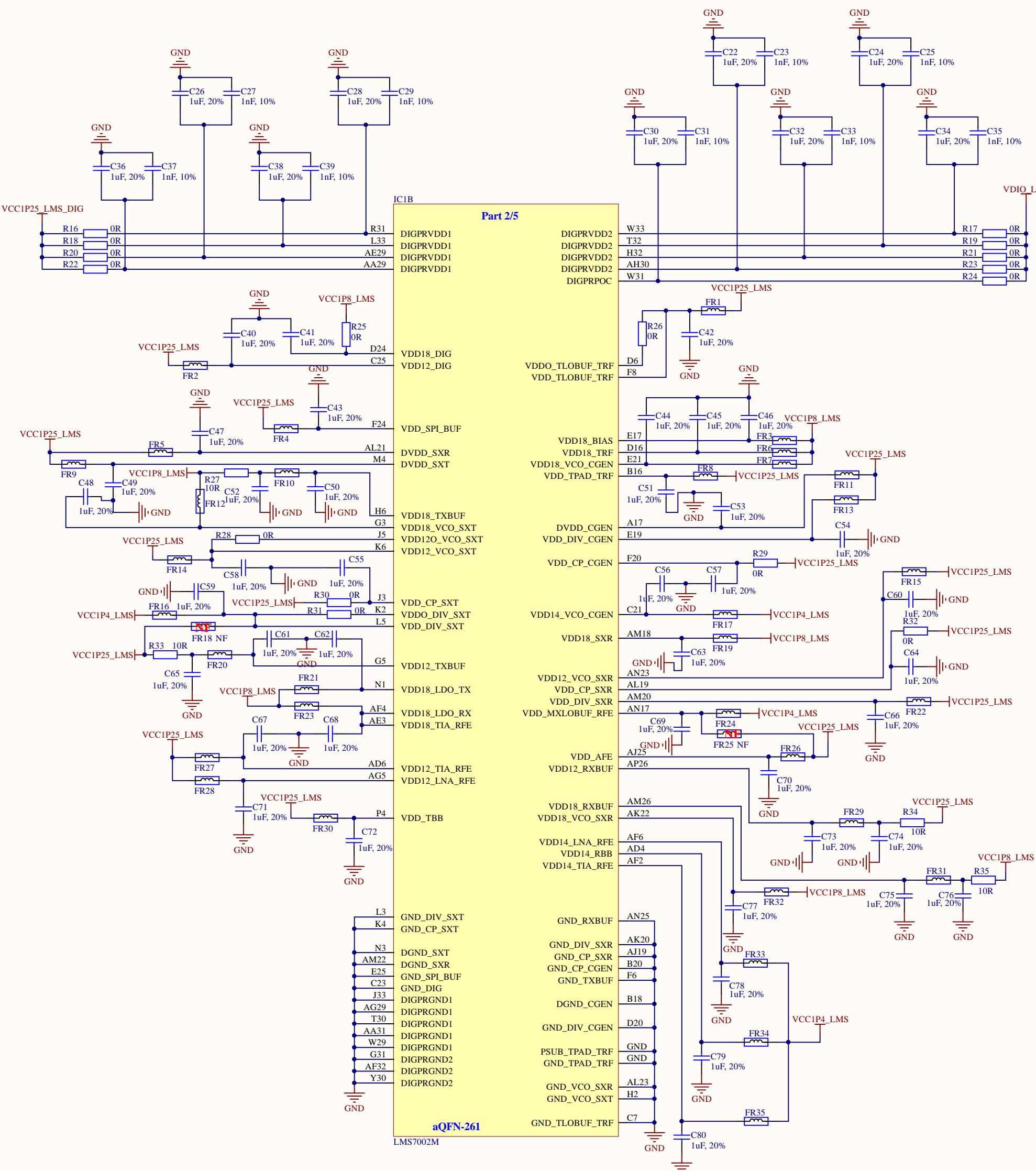
NF elements on sheet: MN10, MN26, MN42, MN14, MN30, MN46
Number of NF elements on sheet: 6

LMS7002M 2 RF circuits



NF elements on sheet: FR18, FR25
Number of NF elements on sheet: 2

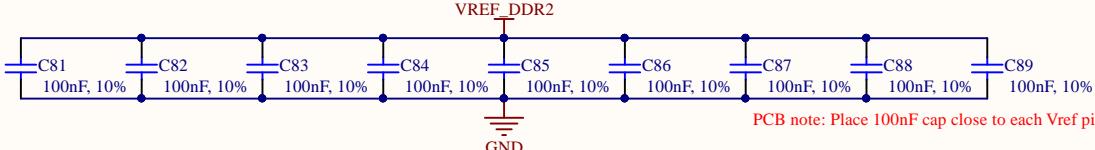
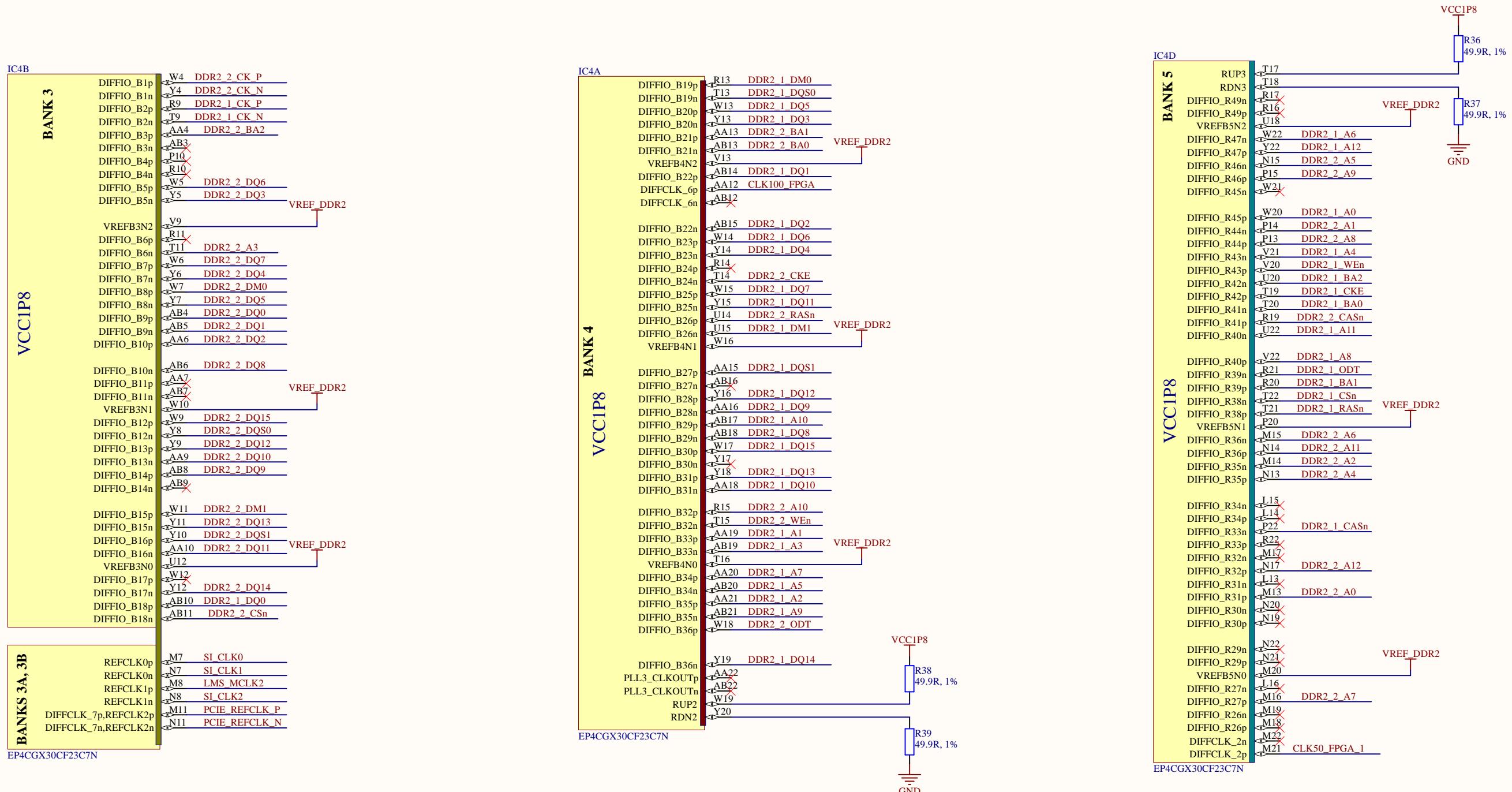
LMS7002M 1 power supply circuit



Title LMS7002M 1 power supply		<i>Lime Microsystems Surrey Tech Centre Guildford GU2 7YG Surrey United Kingdom</i>	
Size: A3	Revision: SoDeRa-PCI v1.0		
Date: 2015-11-16	Time: 11:41:32	Sheet 6 of 15	

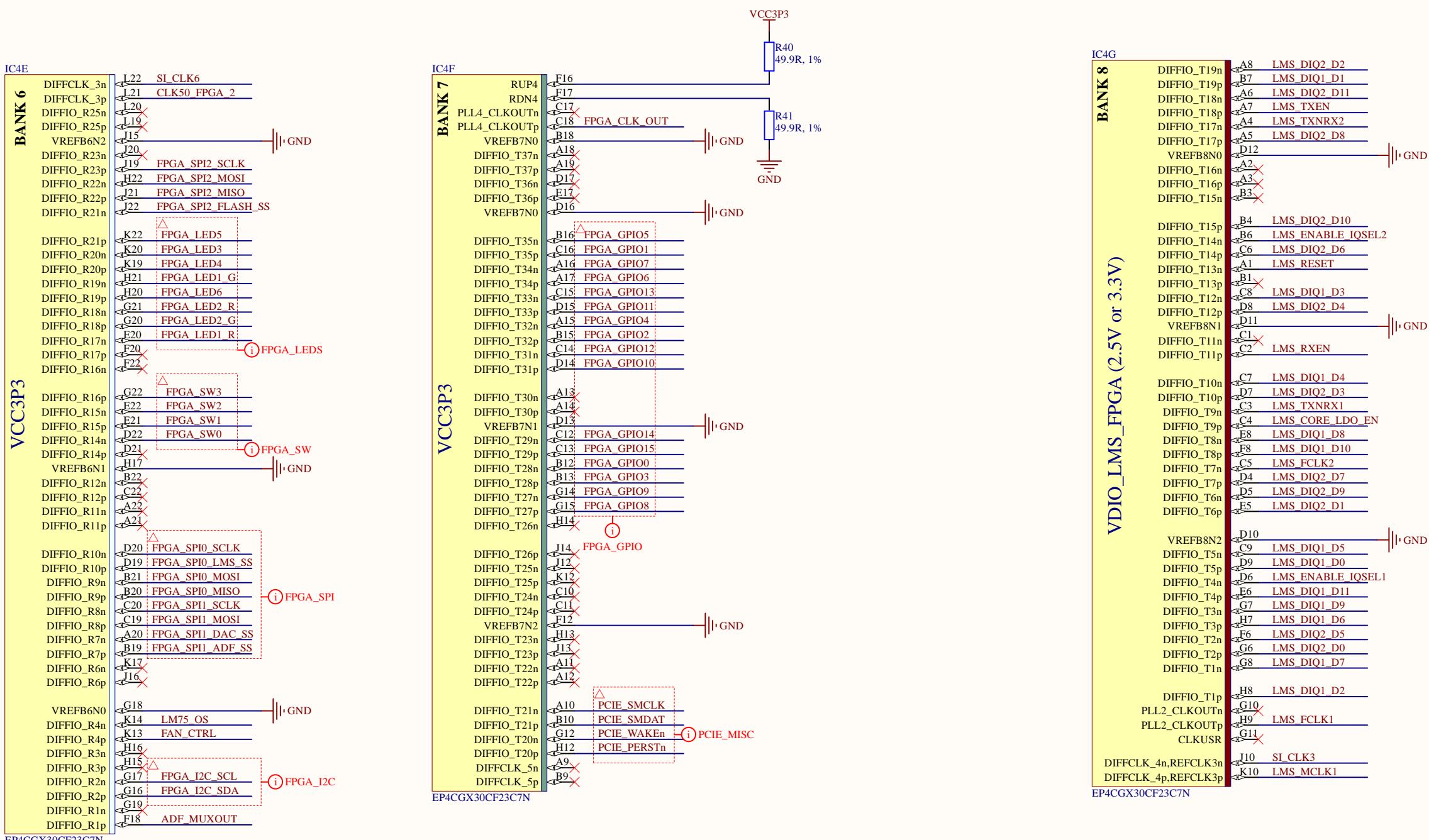
FPGA banks 3, 4, 5

NF elements on sheet: -
Number of NF elements on sheet: 0



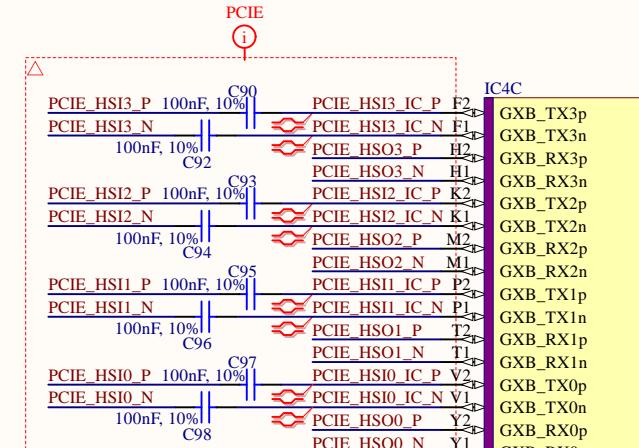
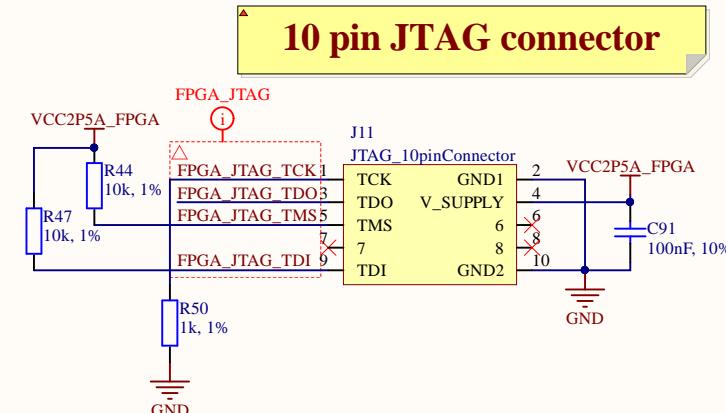
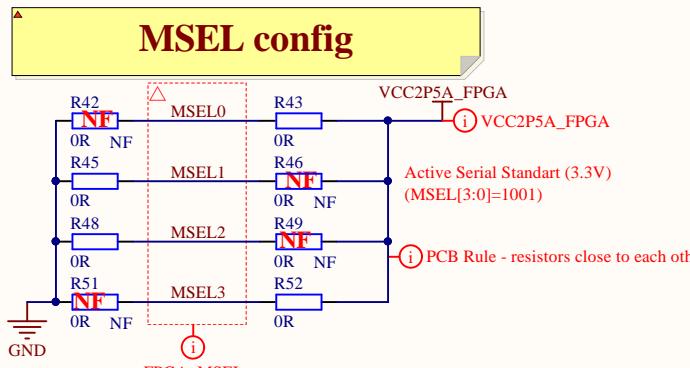
NF elements on sheet: -
Number of NF elements on sheet: 0

FPGA banks 6, 7, 8

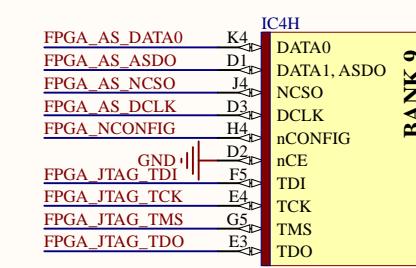
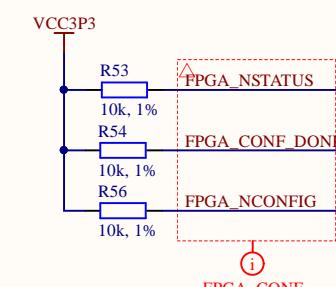
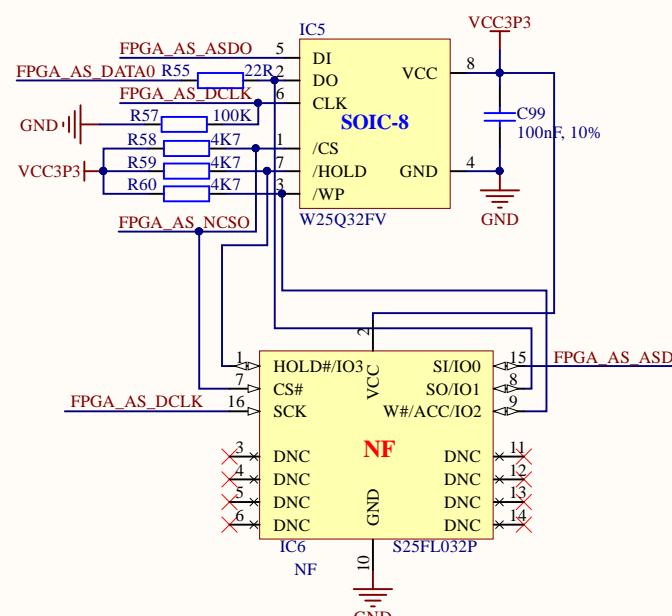


NF elements on sheet: R42, R46, R49, R51, IC6
Number of NF elements on sheet: 5

FPGA misc (clocks, config, PCIe)



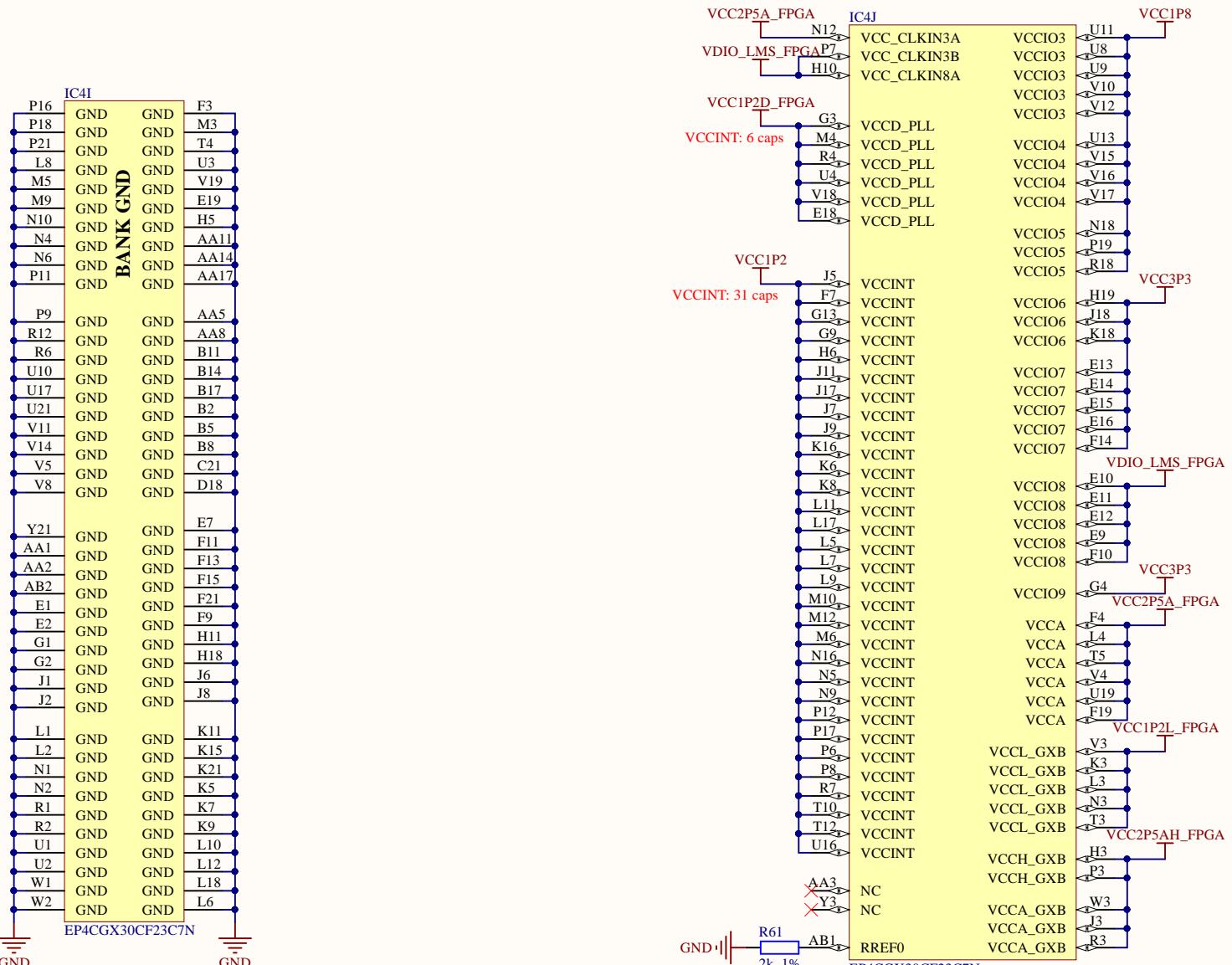
Configuration Flash



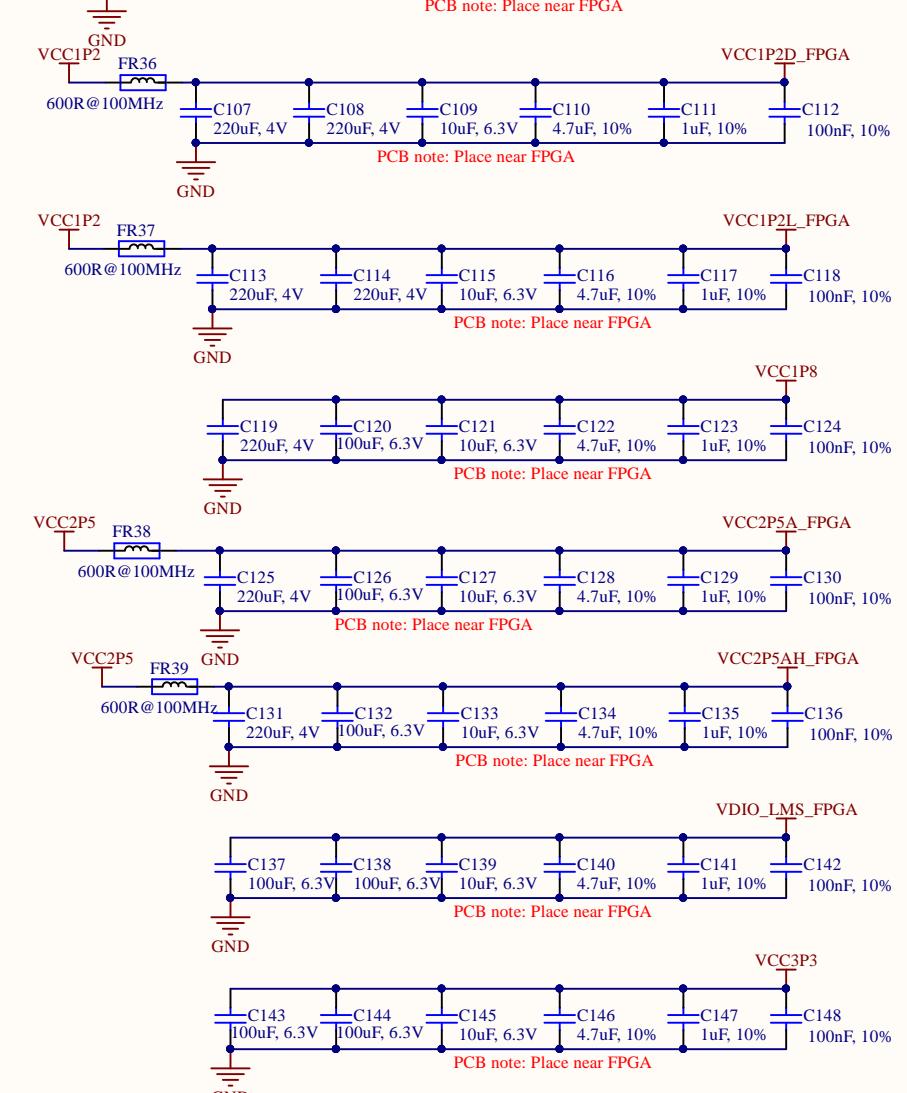
NF elements on sheet: -
Number of NF elements on sheet: 0

FPGA power

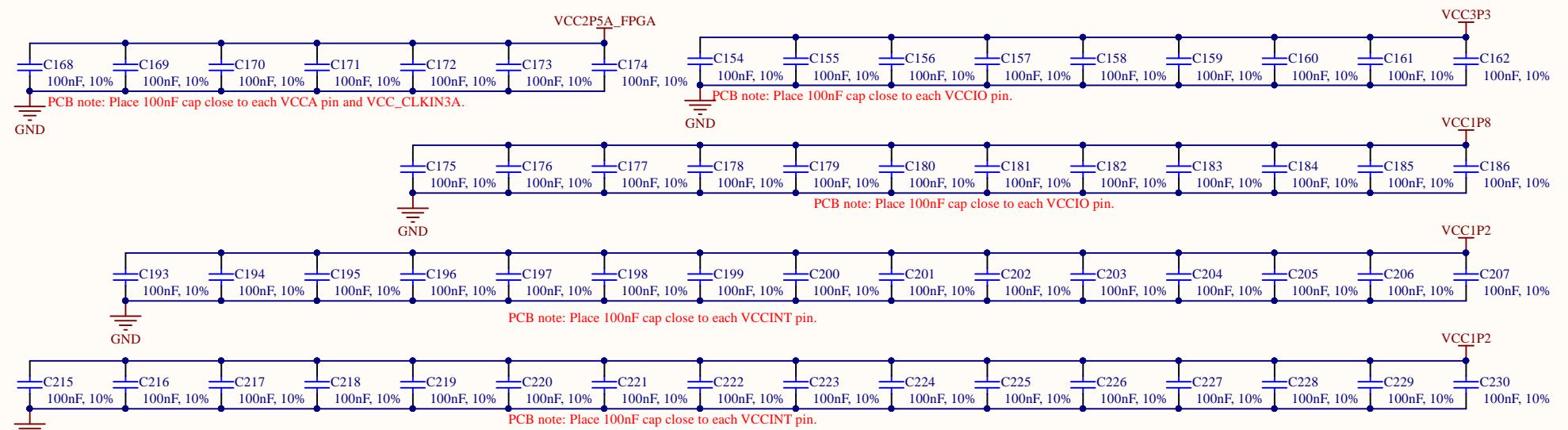
A



B



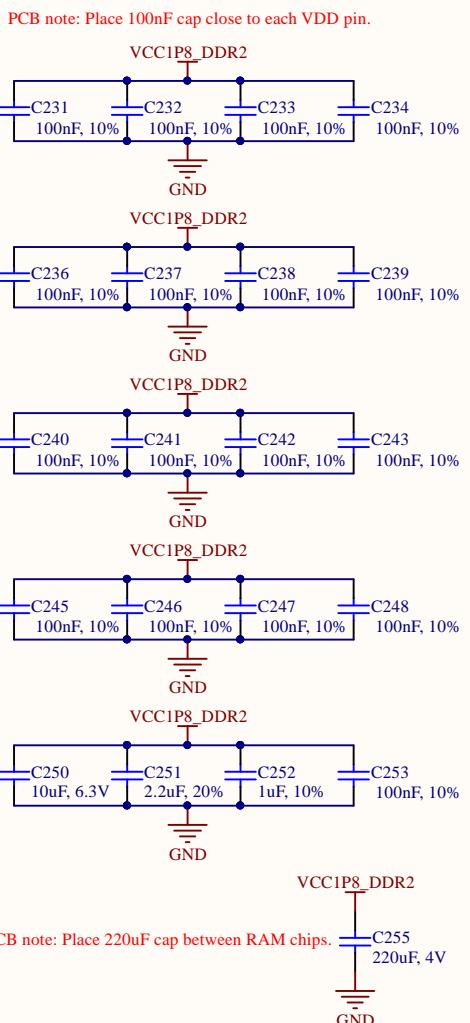
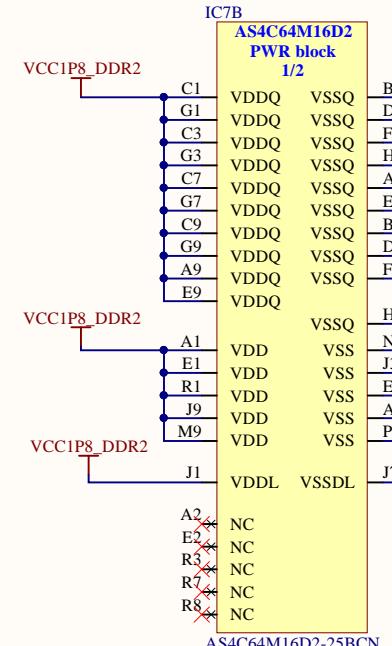
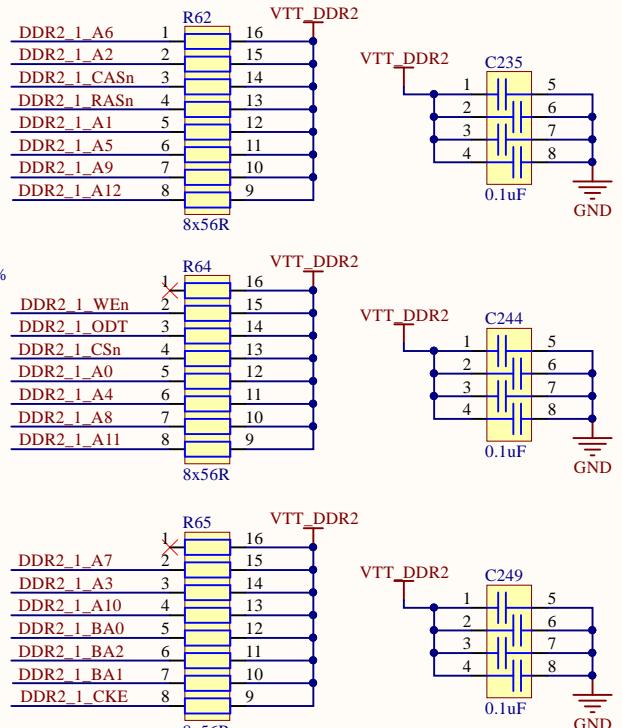
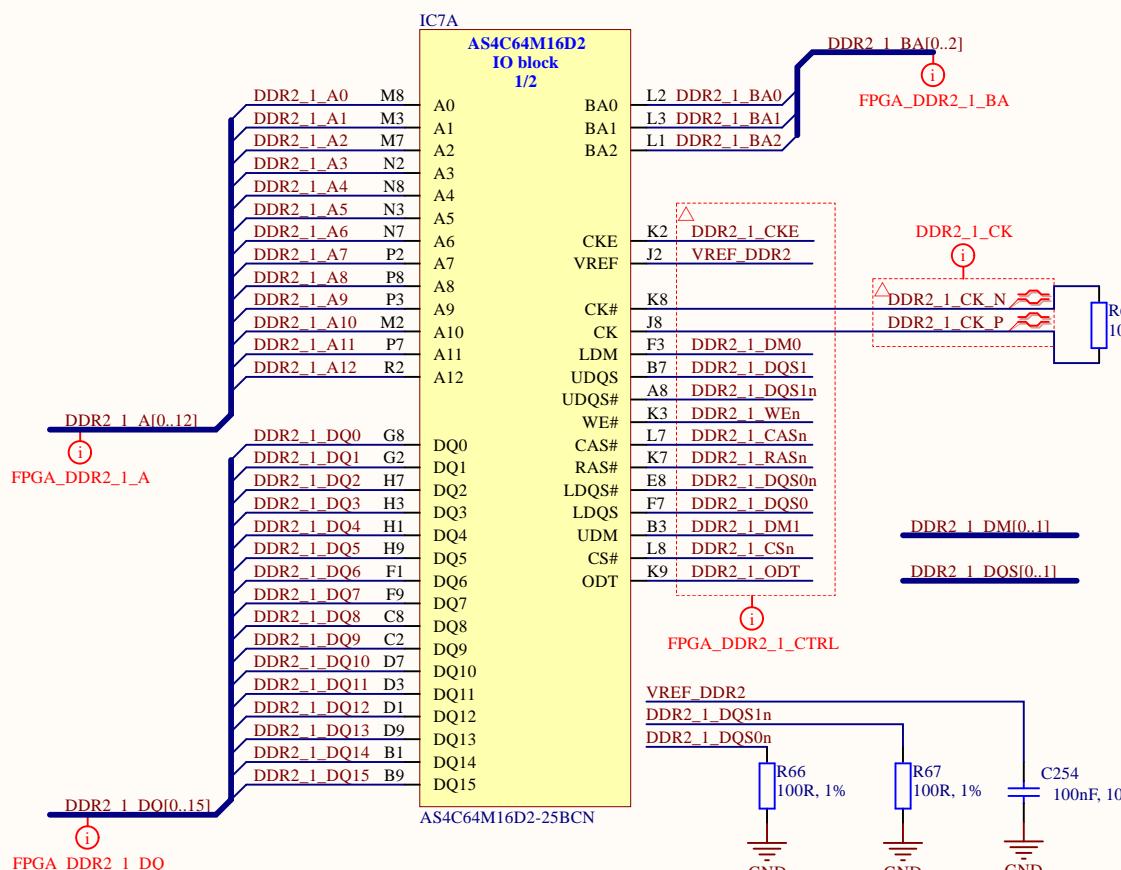
C



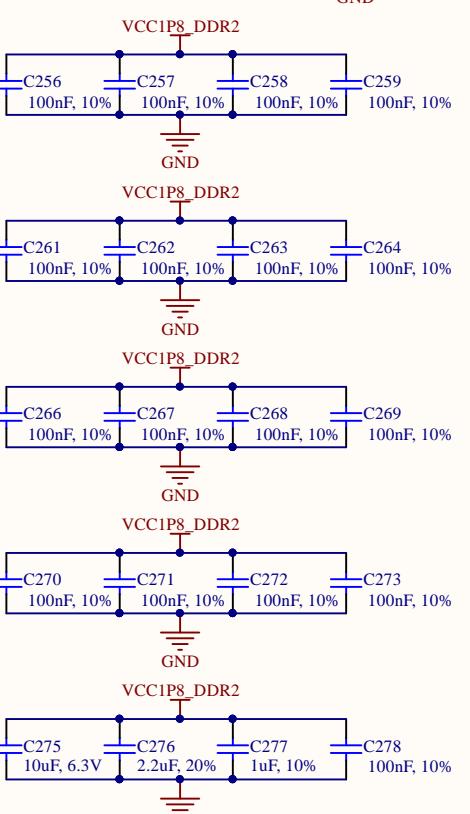
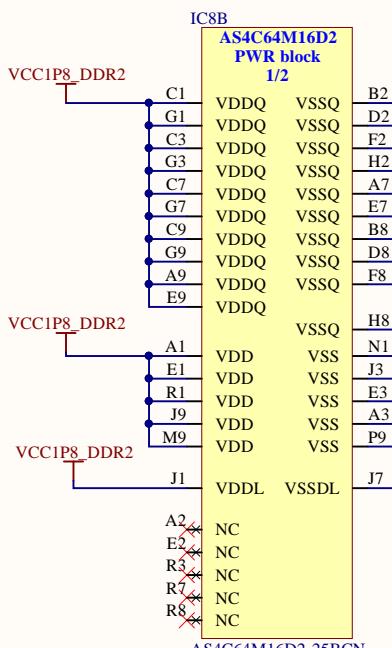
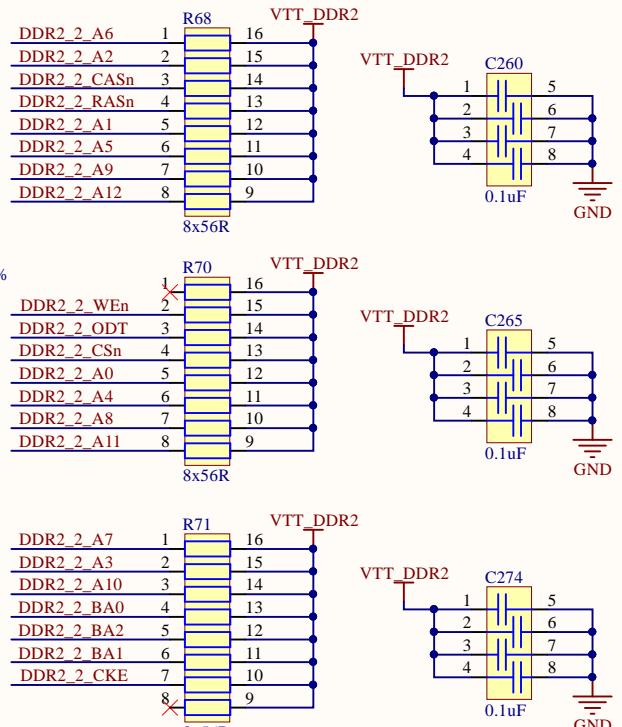
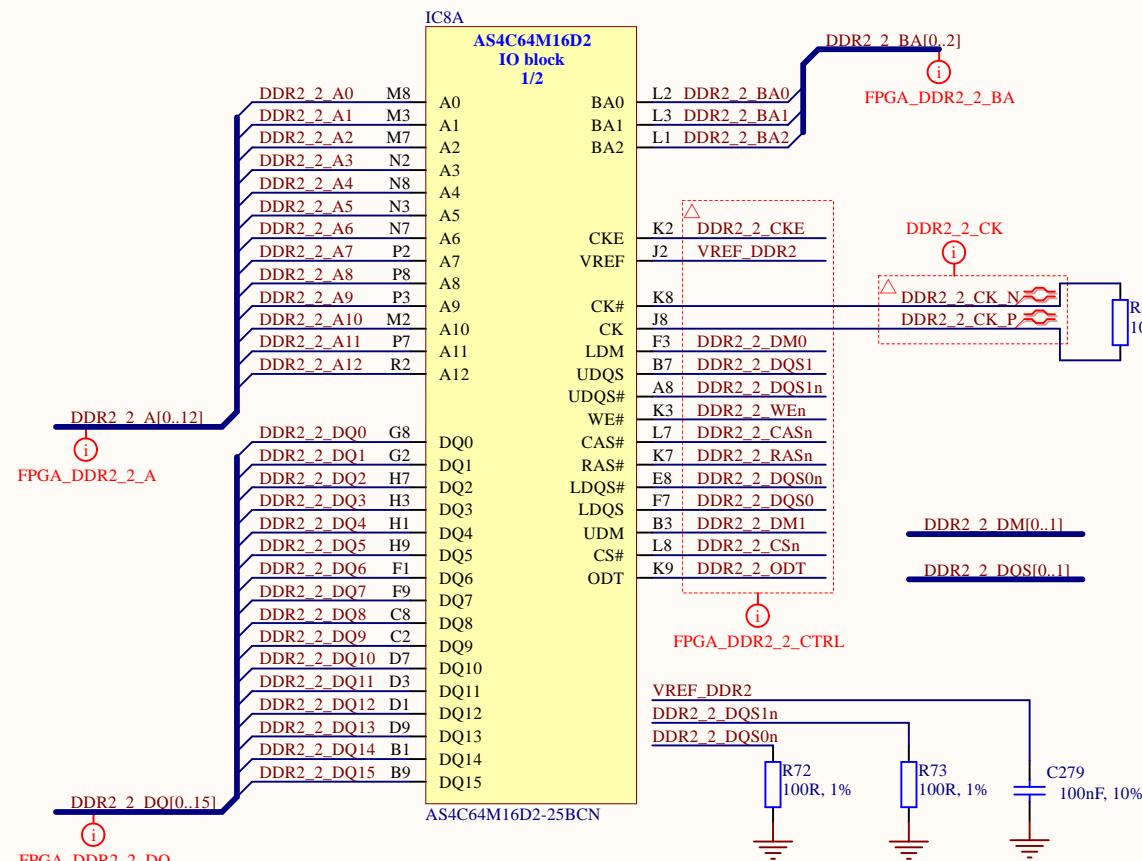
D

NF elements on sheet: -
Number of NF elements on sheet: 0

DDR2_1 (BOT L)



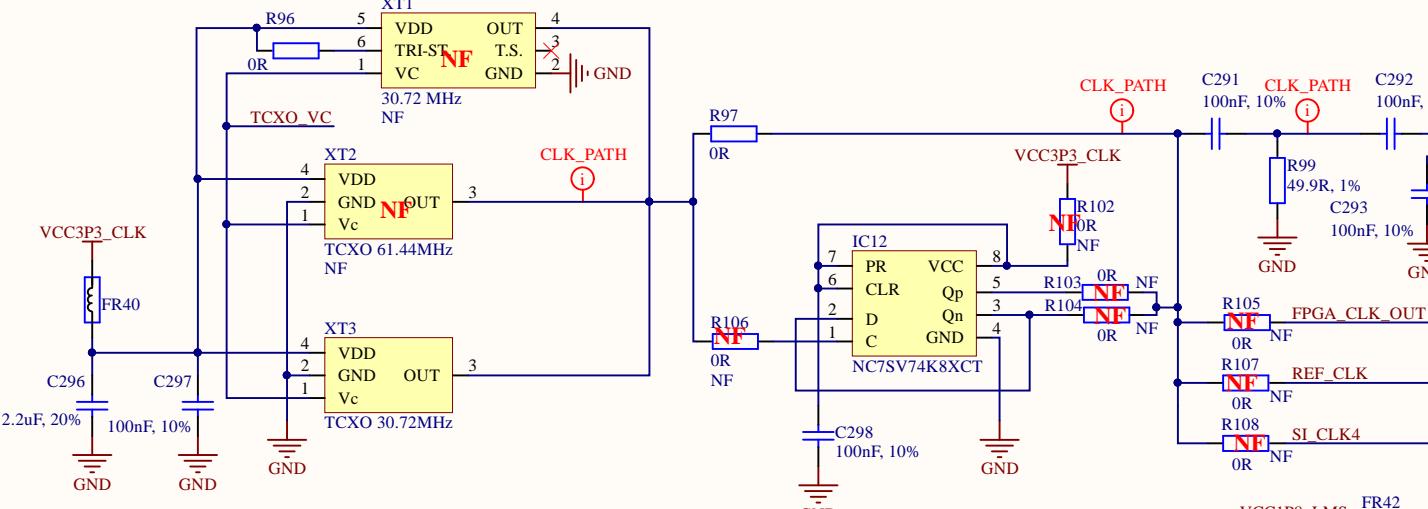
DDR2_2 (BOT R)



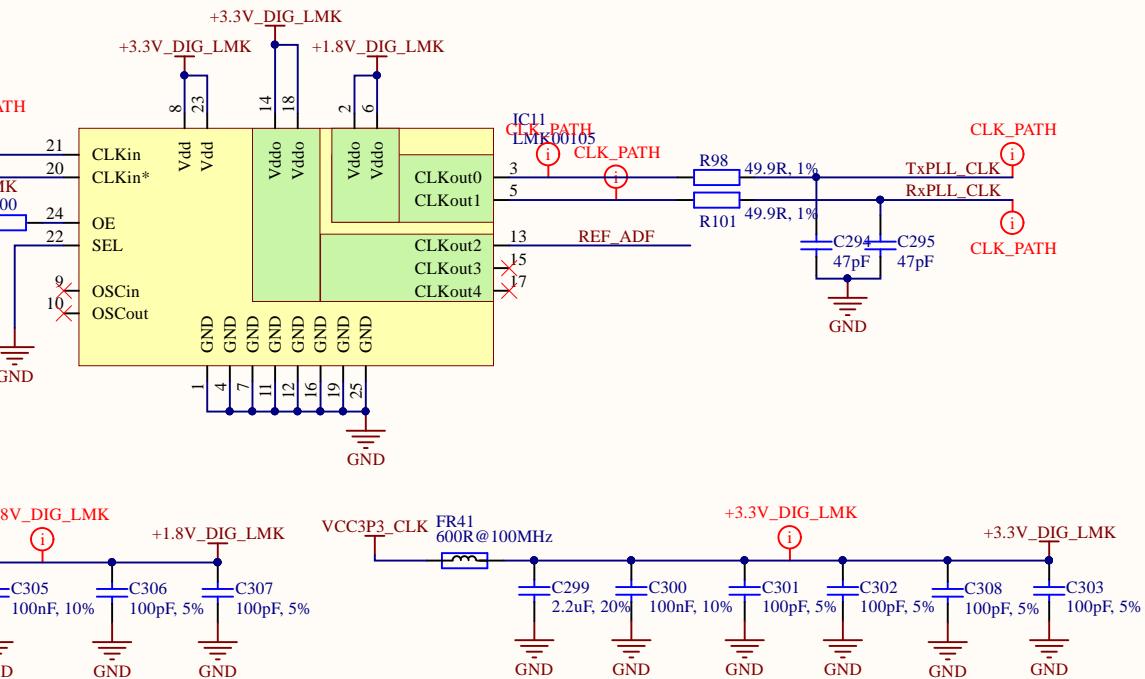
NF elements on sheet: XT1, XT2, R102, R103, R105, R105, R106, R107, R108, R114
Number of NF elements on sheet: 10

Clock circuits 1

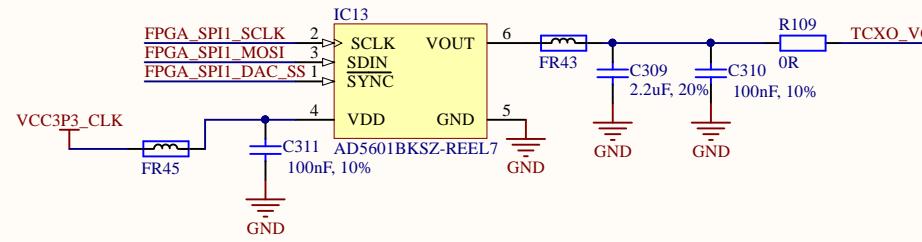
(VC)TCXO



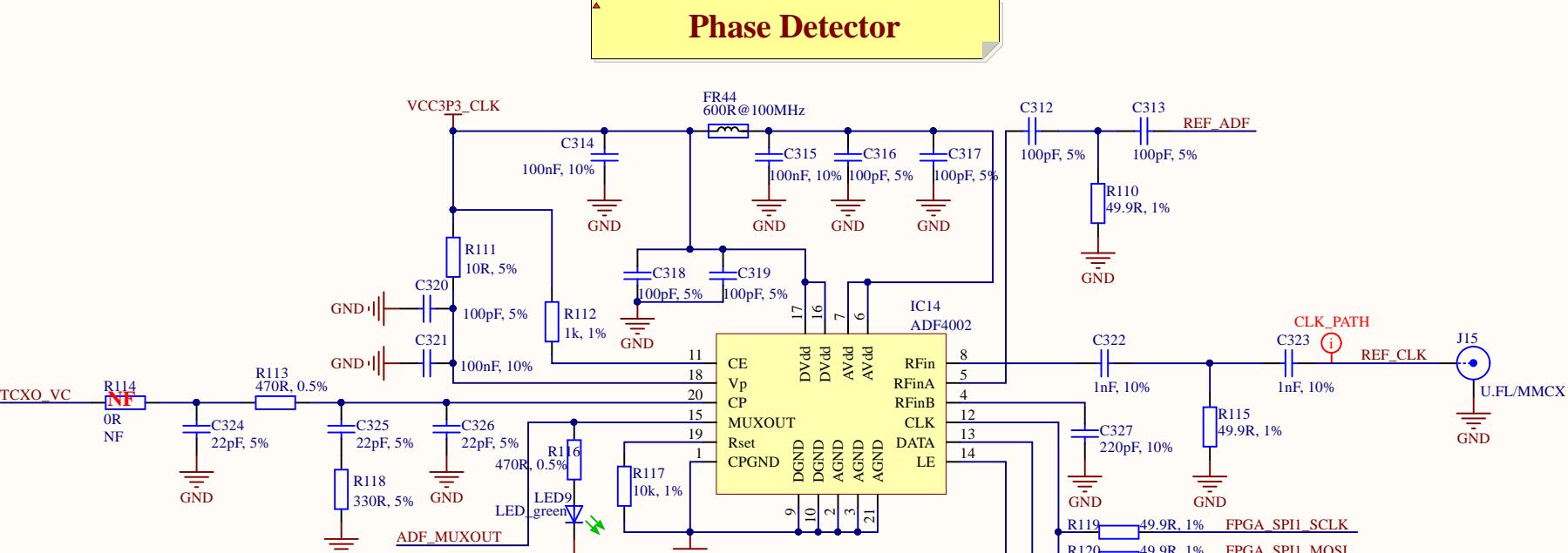
Clock buffer



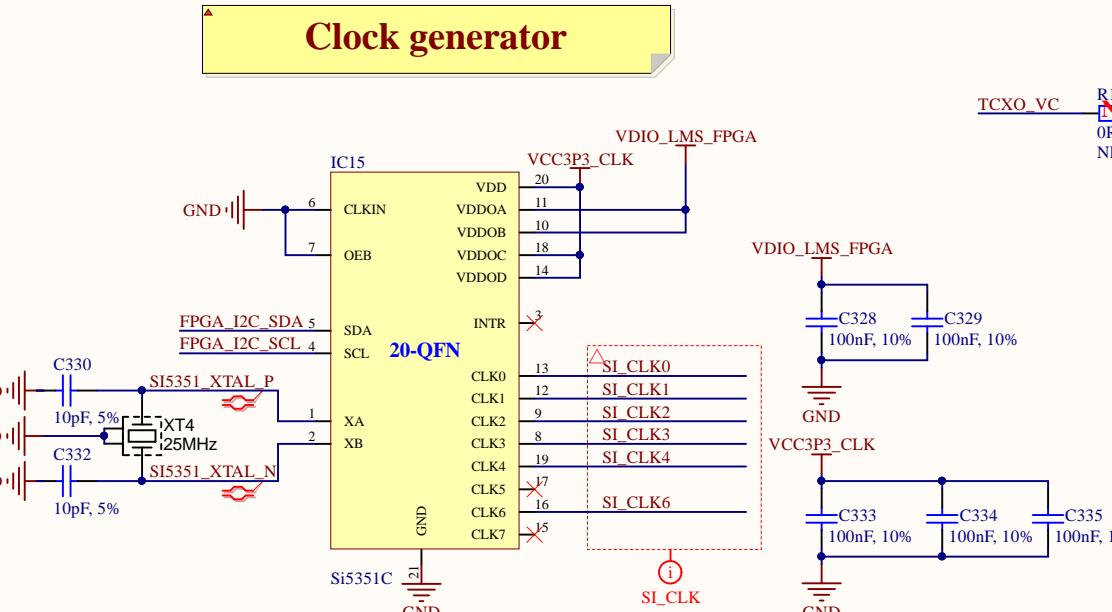
DAC



Phase Detector



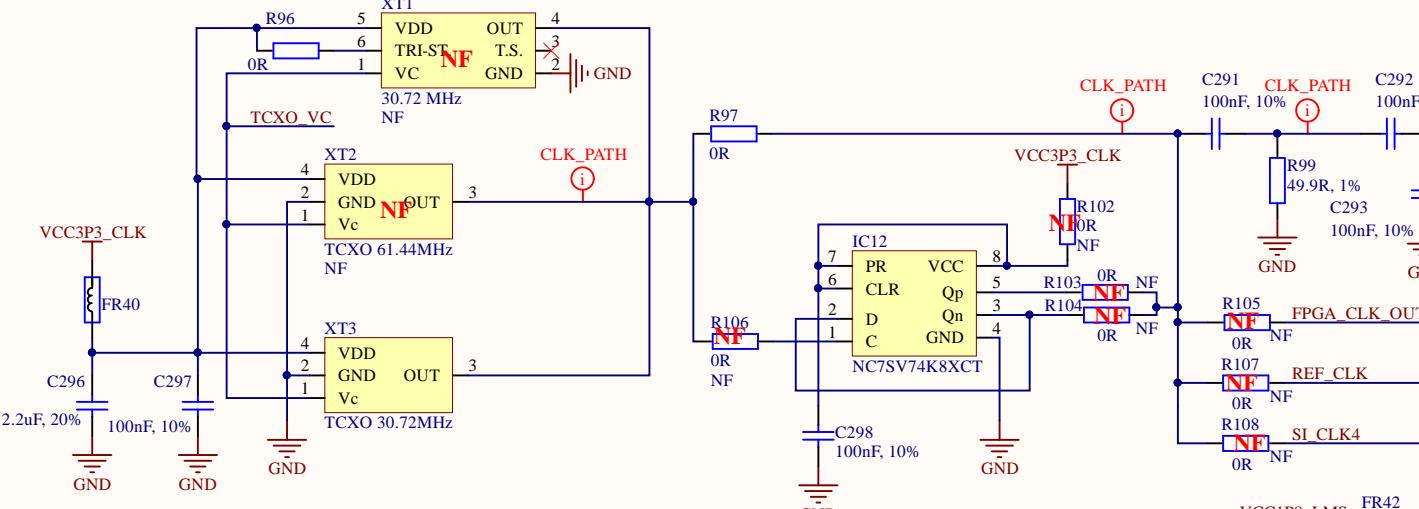
Clock generator



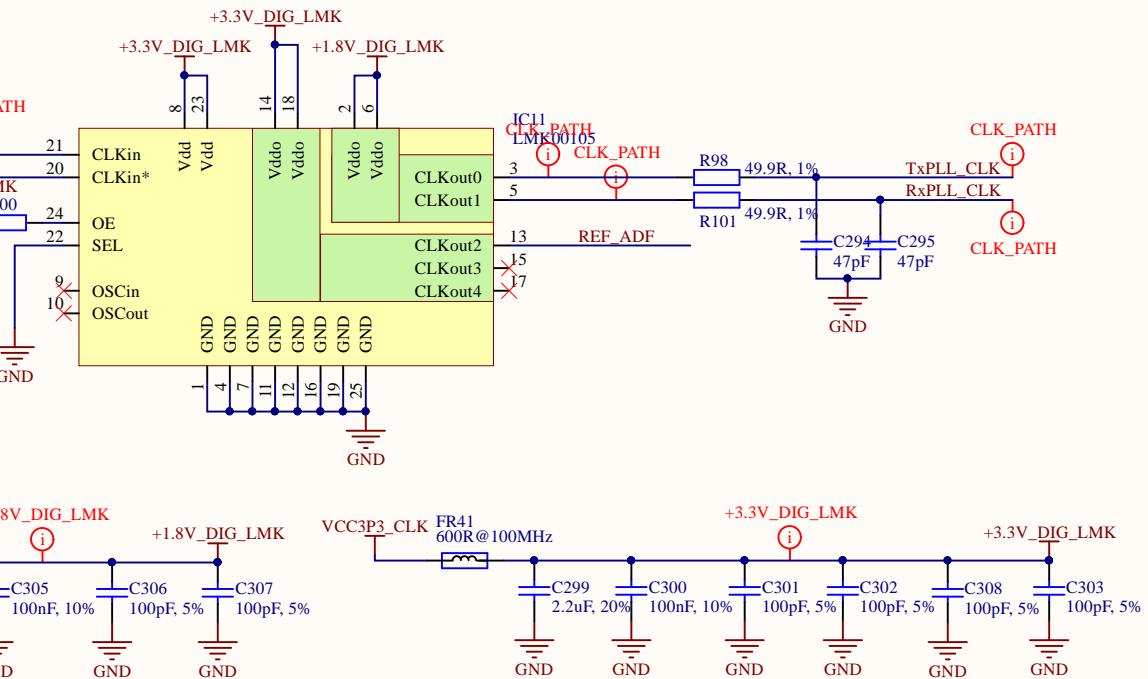
NF elements on sheet: XT1, XT2, R102, R103, R105, R105, R106, R107, R108, R114
Number of NF elements on sheet: 10

Clock circuits 1

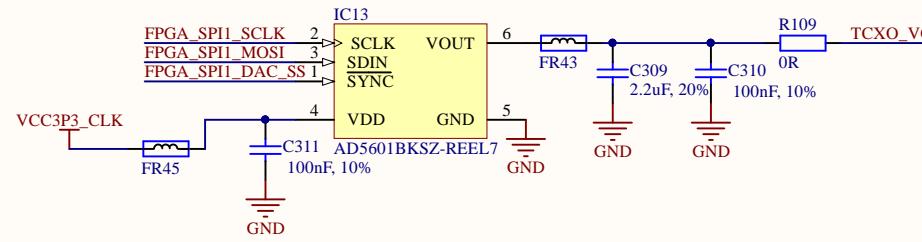
(VC)TCXO



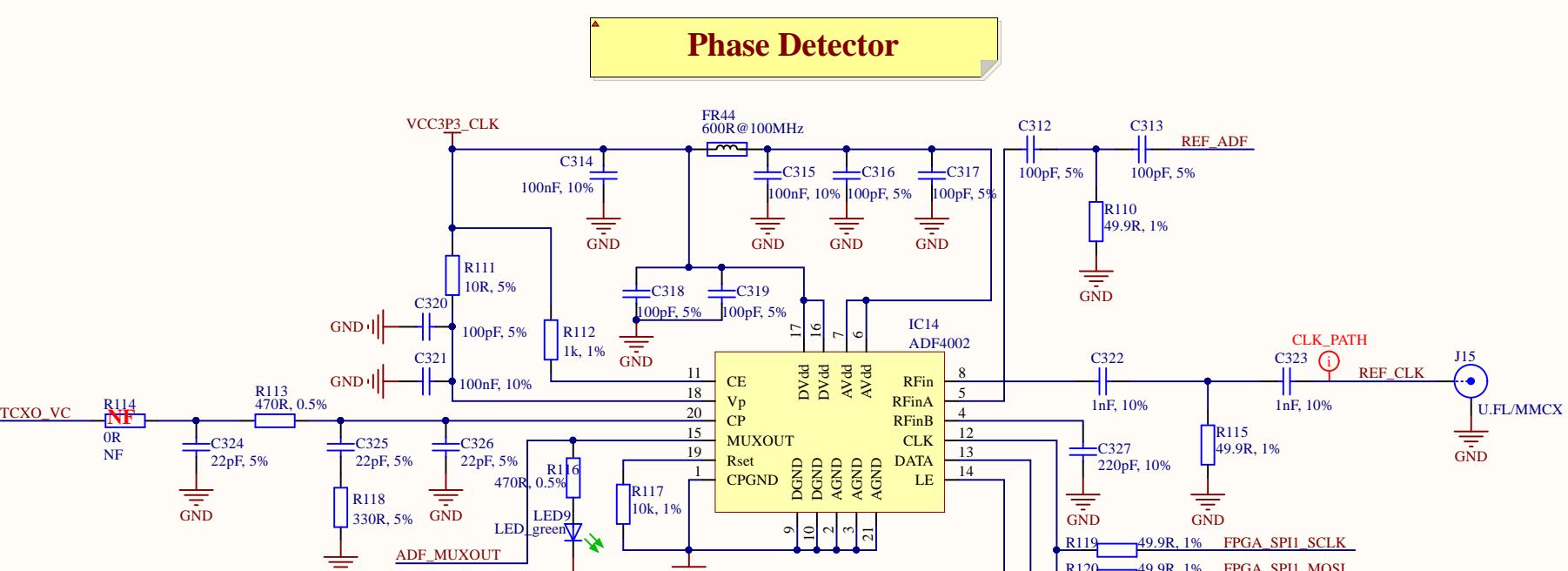
Clock buffer



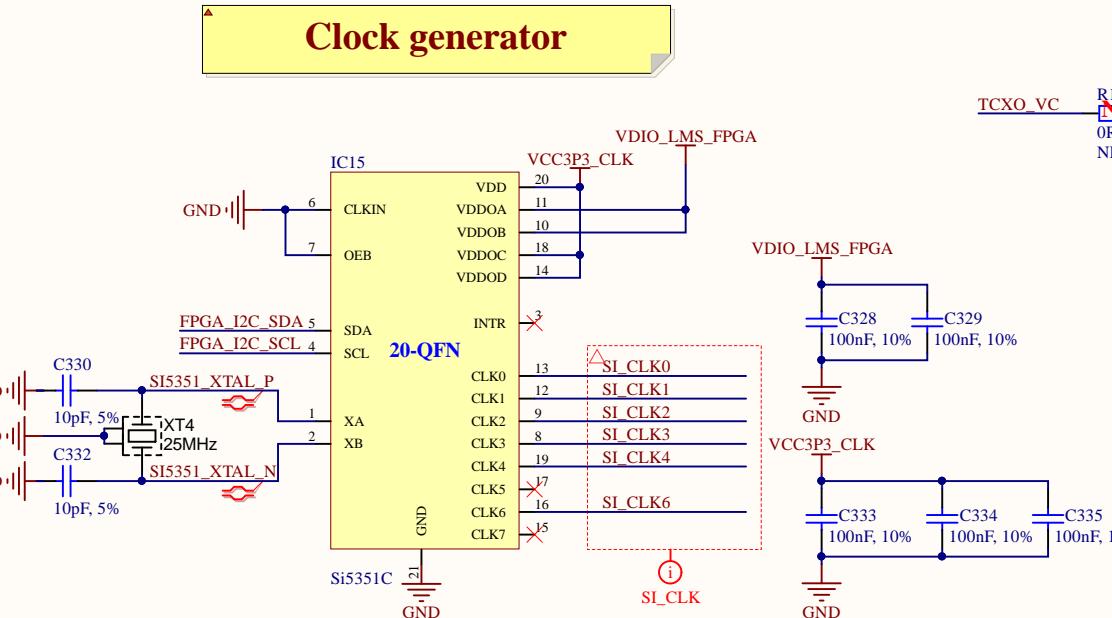
DAC



Phase Detector



Clock generator



Title **Clocks 1**

Size: A3 Revision: SoDeRa-PCI v1.0
Date: 2015-11-16 Time: 11:41:46 Sheet 13 of 15
File: 13_Clocks_1.SchDoc

Lime Microsystems
Surrey Tech Centre
Guildford GU2 7YG
Surrey
United Kingdom



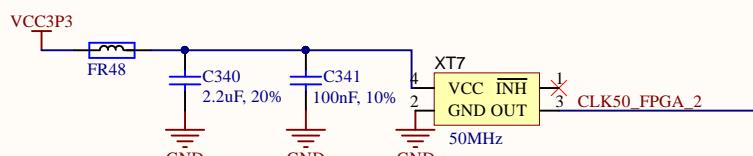
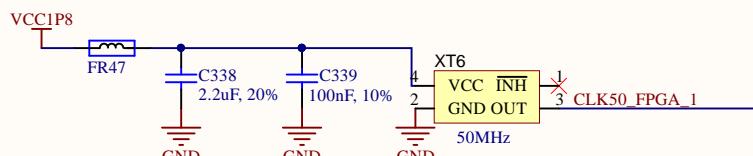
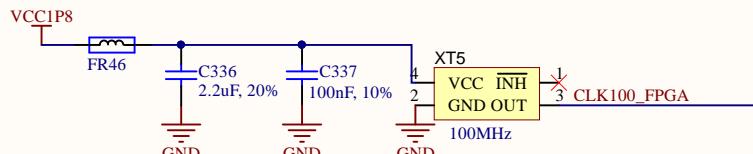
NF elements on sheet: -
Number of NF elements on sheet: 0

Clock circuits 2

A

SE clocks

B



A

B

C

D

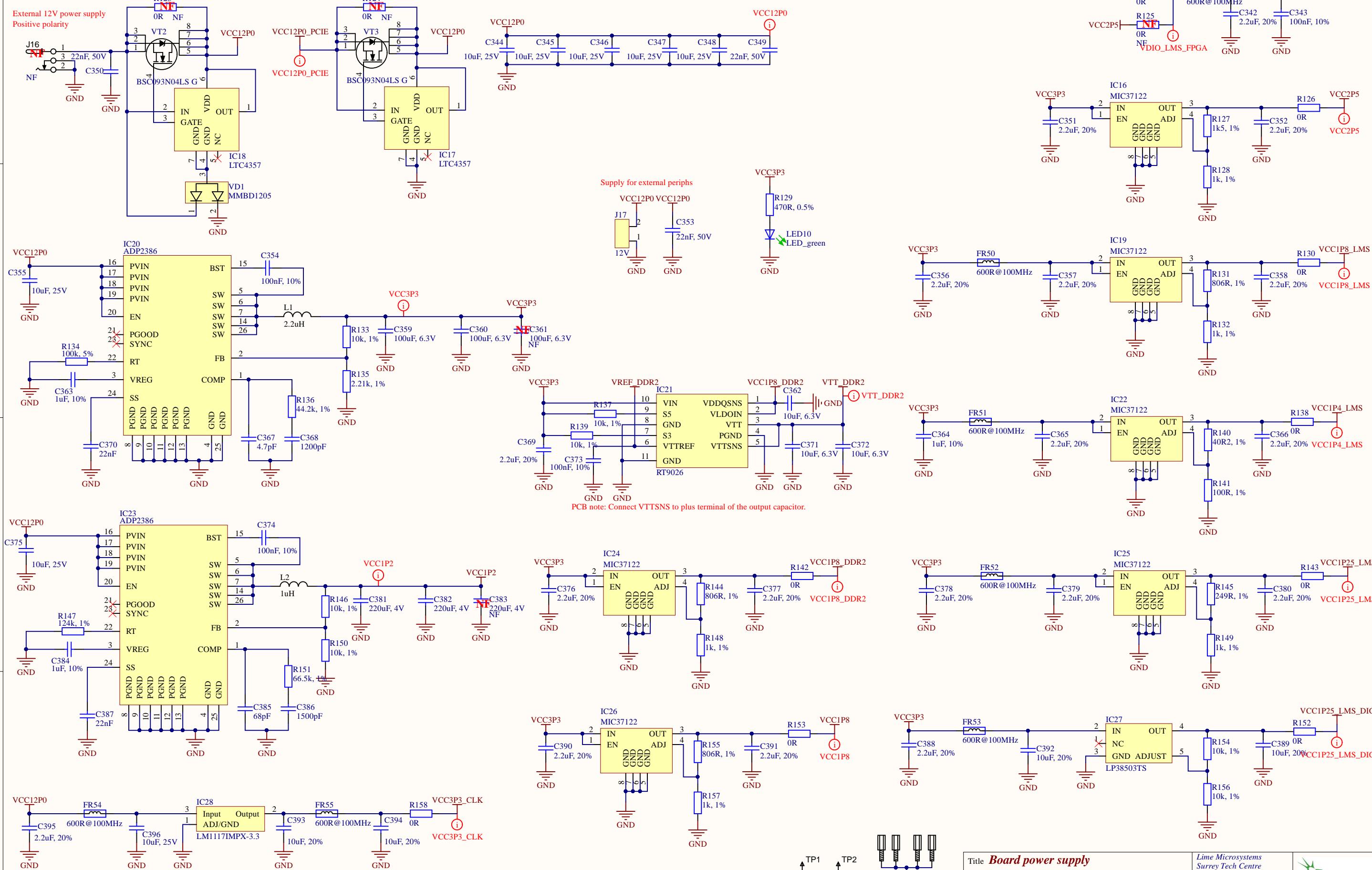
Title Clocks 2		Lime Microsystems Surrey Tech Centre Guildford GU2 7YG Surrey United Kingdom
Size: A4	Revision: SoDeRa-PCI v1.0	
Date: 2015-11-16	Time: 11:41:48	Sheet 14 of 15
File: 14_Clocks_2.SchDoc		

Board power circuits

NF elements on sheet: J16, R123, R124, R125, C361, C383

Number of NF elements on sheet: 6

Total number of NF elements on all sheets: 35



Title Board power supply		Lime Microsystems Surrey Tech Centre Guildford GU2 7YG Surrey United Kingdom	 Lime microsystems
Size: A3	Revision: SoDeRa-PCI v1.0		
Date: 2015-11-16	Time: 11:41:51	Sheet 13 of 13	
File: 15_BoardPowerSupply.SchDoc			