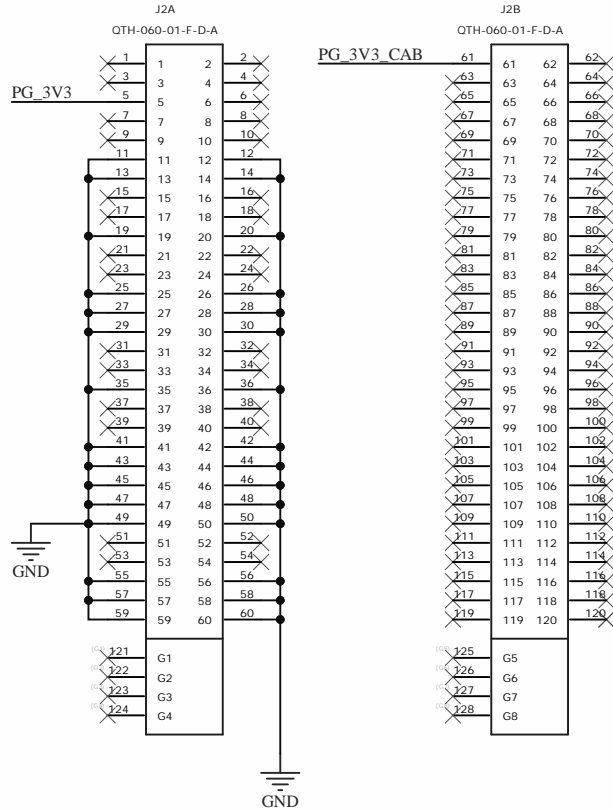


# CONNECTORS 1

**BANK13 on CI-CORE1 must be connected to 3.3V**  
R133 = mounted ; R134 = unmounted

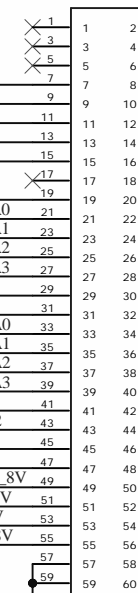


I2C0 SCL (MIO10)  
I2C0 SDA (MIO11)  
I2C1 SCL (MIO12)  
I2C1 SDA (MIO13)

GEN I2C POT\_SCL  
GEN I2C POT\_SDA  
GEN SCLK  
GEN I2C POT\_AD0

ETH MIO TX CLK  
ETH MIO TX DATA0  
ETH MIO TX DATA1  
ETH MIO TX DATA2  
ETH MIO TX CTL  
ETH MIO RX CLK  
ETH MIO RX DATA0  
ETH MIO RX DATA1  
ETH MIO RX DATA2  
ETH MIO RX DATA3  
ETH MIO RX CTL  
ETH MIO PHYLED2  
GEN FSYNC 1\_8V  
GEN CTRL 1\_8V  
GEN INTERRUPT 1\_8V  
GEN STANDBY 1\_8V  
GEN MSBOUT 1\_8V  
GEN SYNCOUT 1\_8V

J1A  
QTH-060-01-F-D-A

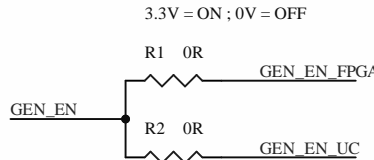
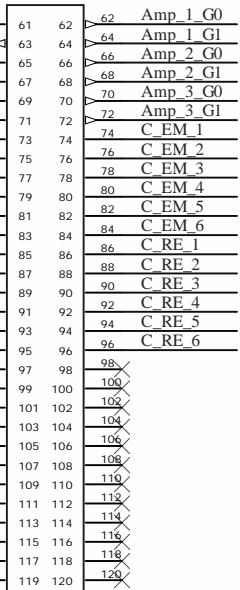


## Core1 mezzanine connectors

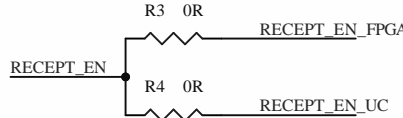
J1B

QTH-060-01-F-D-A

ADC\_CLK\_3\_3V  
ADC\_BIT10\_3\_3V  
ADC\_BIT9\_3\_3V  
ADC\_BIT8\_3\_3V  
ADC\_BIT7\_3\_3V  
ADC\_BIT6\_3\_3V  
ADC\_BIT5\_3\_3V  
ADC\_BIT4\_3\_3V  
ADC\_BIT3\_3\_3V  
ADC\_BIT2\_3\_3V  
ADC\_BIT1\_3\_3V  
ADC\_n\_OE\_3\_3V

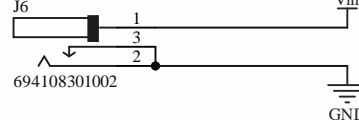


1.8V or 3.3V = RECEPTION ON  
0V = RECEPTION SHORT CIRCUITED

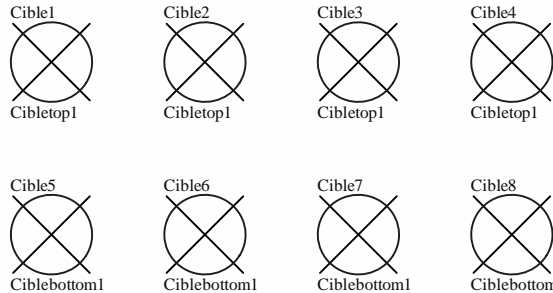
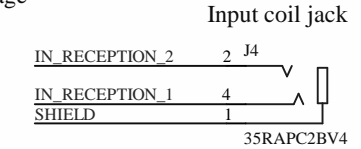
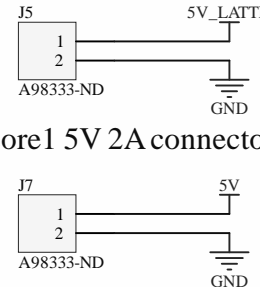


## LattePanda 5V 2A connector

Vin = 24V Barrel connector 2.5x5.5  
2 A



## Core1 5V 2A connector



<b>Project:</b> CAB_GammaMRI_project_2.PrjPcb		<b>h e p i a</b> Haute école du paysage, d'ingénierie et d'architecture de Genève		
<b>Sheet Title:</b> GammaMRICAB_2 - Connectors2.SchDoc		<b>Designer:</b> Stoeckli H. <b>Resp:</b> Giandomenico N.		
<b>Labo:</b> HEPIA-elec		<b>Sheet:</b> 1 / 9 <b>Rev:</b> 01 <b>Date:</b> 03.01.2023		
<b>Size</b> A4	<b>Document:</b> CAB_GammaMRI_project_2.PrjPcb			
This document is the property of hepia, Geneva Switzerland, and contains confidential information. It shall not be used, disclosed or reproduced in any manner without written permission				

## A

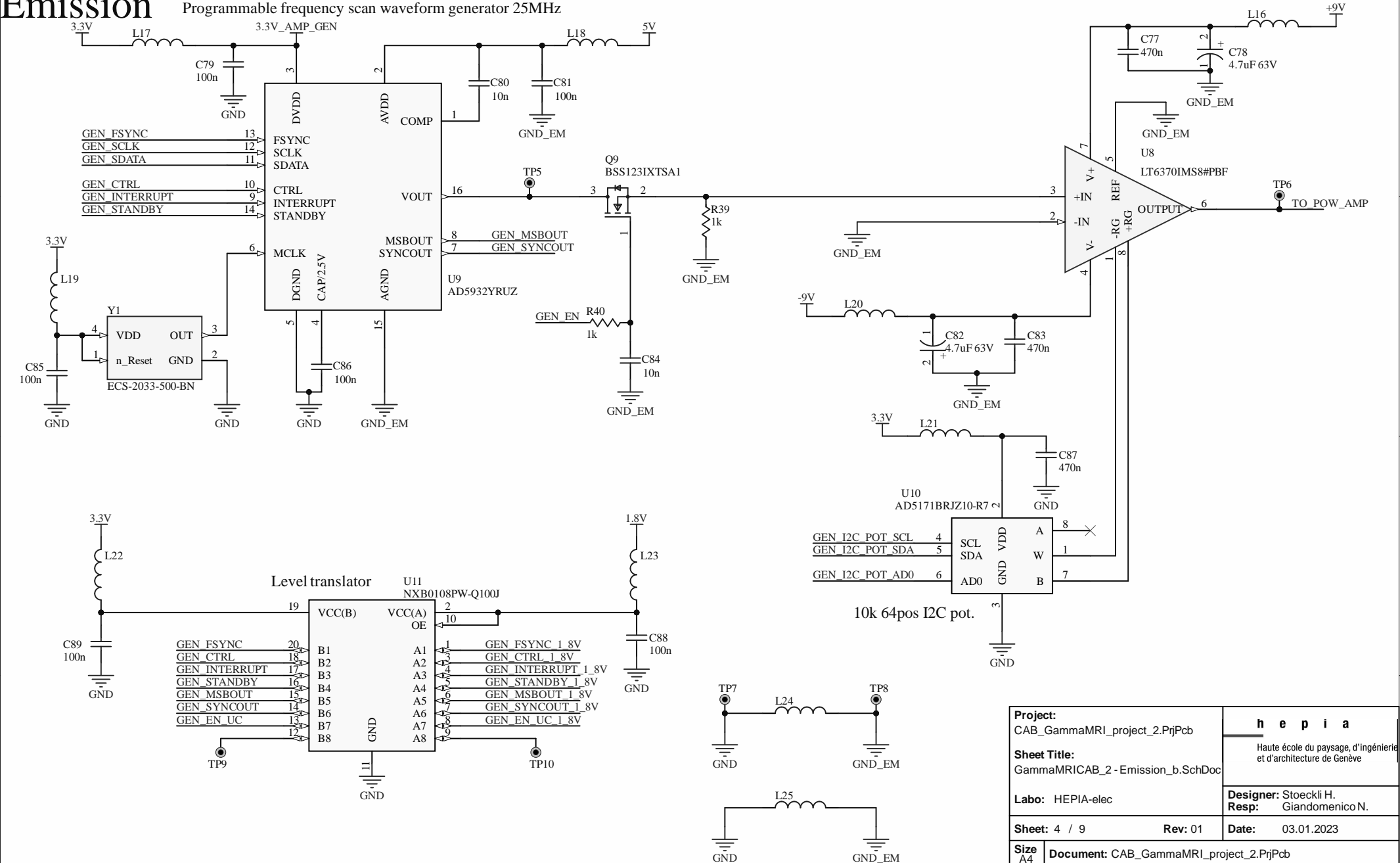
D

## A

D

# Emission

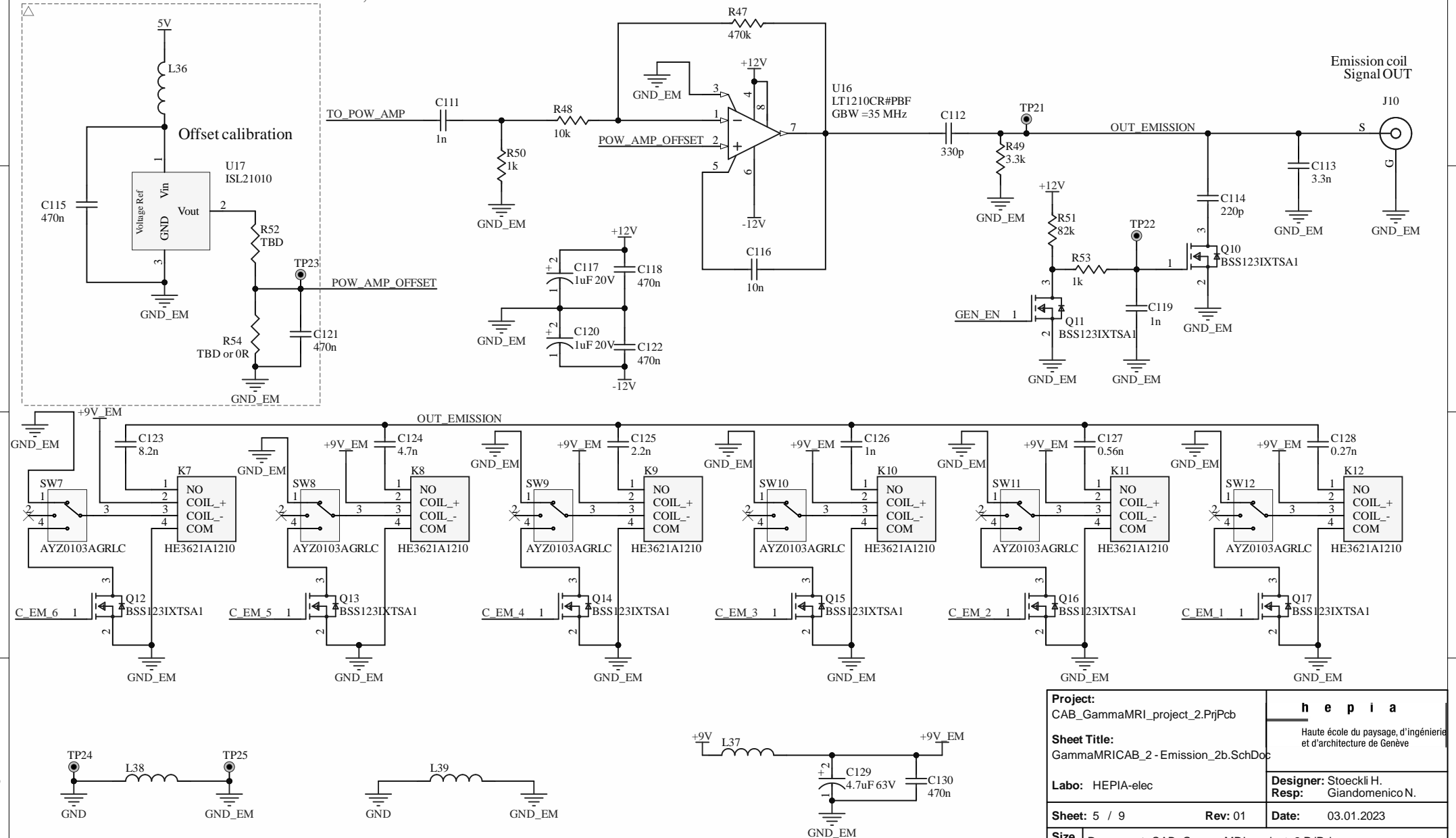
## Programmable frequency scan waveform generator 25MHz



<b>Project:</b> CAB_GammaMRI_project_2.PrjPcb		<b>h e p i a</b>  Haute école du paysage, d'ingénierie et d'architecture de Genève	
<b>Sheet Title:</b> GammaMRICAB_2 - Emission_b.SchDoc		<b>Designer:</b> Stoeckli H. <b>Resp:</b> Giandomenico N.	
<b>Labo:</b> HEPIA-elec		<b>Date:</b> 03.01.2023	
<b>Sheet:</b> 4 / 9		<b>Rev:</b> 01	
<b>Size</b> A4	<b>Document:</b> CAB_GammaMRI_project_2.PrjPcb		
This document is the property of hepia, Geneva Switzerland, and contains confidential information. It shall not be used, disclosed or reproduced in any manner without written permission			

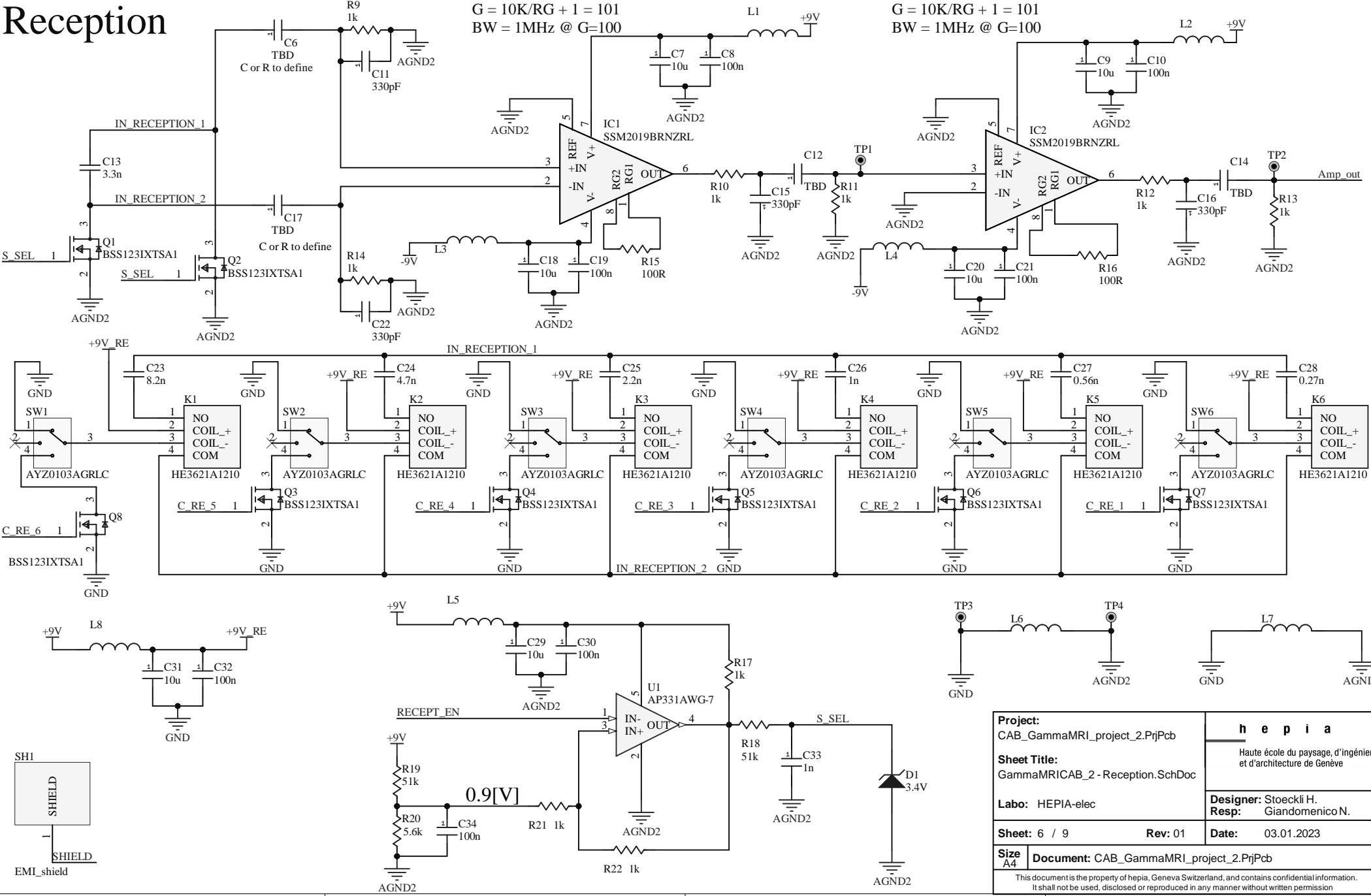
# Emission 2

DO NOT MOUNT, EXCEPT R54 = 0R



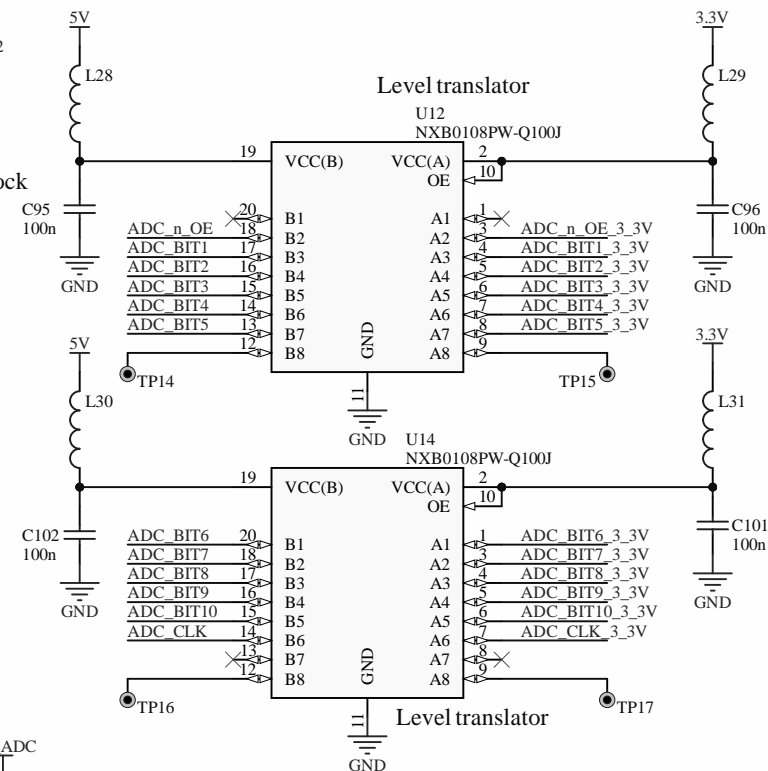
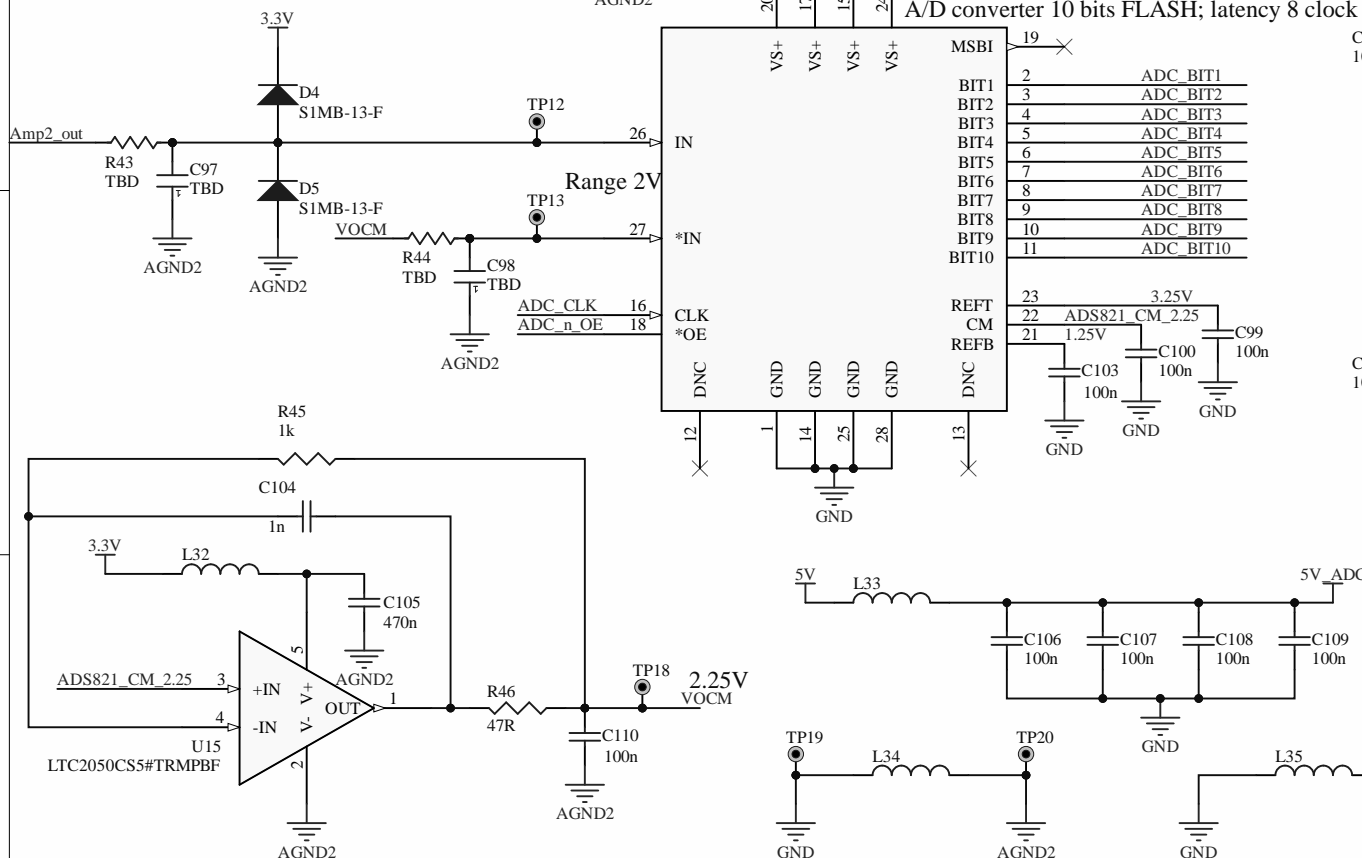
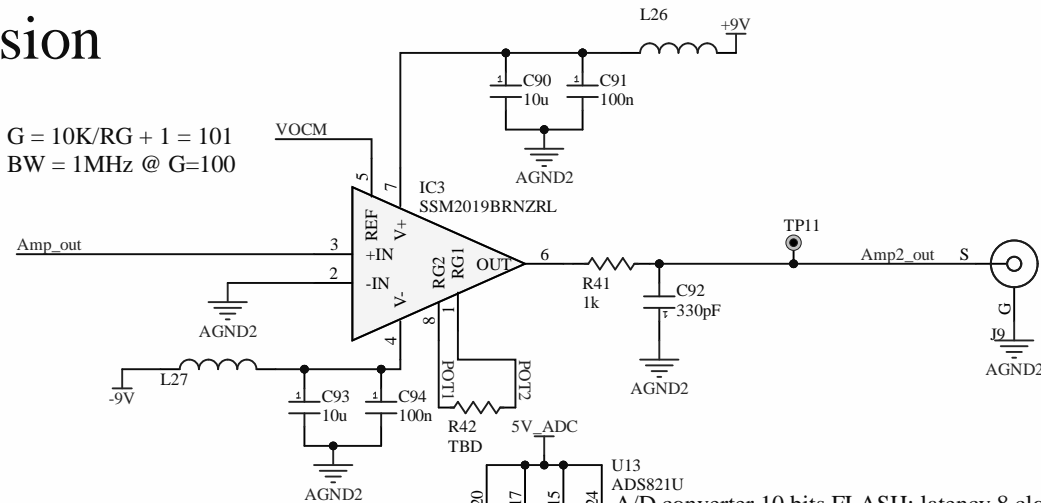
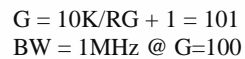
<b>Project:</b> CAB_GammaMRI_project_2.PrjPcb		<b>h e p i a</b>  Haute école du paysage, d'ingénierie et d'architecture de Genève	
<b>Sheet Title:</b> GammaMRICAB_2 - Emission_2b.SchDoc		<b>Designer:</b> Stoeckli H. <b>Resp:</b> Giandomenico N.	
<b>Labo:</b> HEPIA-elec		<b>Date:</b> 03.01.2023	
<b>Sheet:</b> 5 / 9		<b>Rev:</b> 01	
<b>Size</b> A4	<b>Document:</b> CAB_GammaMRI_project_2.PrjPcb		
This document is the property of hepia, Geneva Switzerland, and contains confidential information. It shall not be used, disclosed or reproduced in any manner without written permission			

Reception

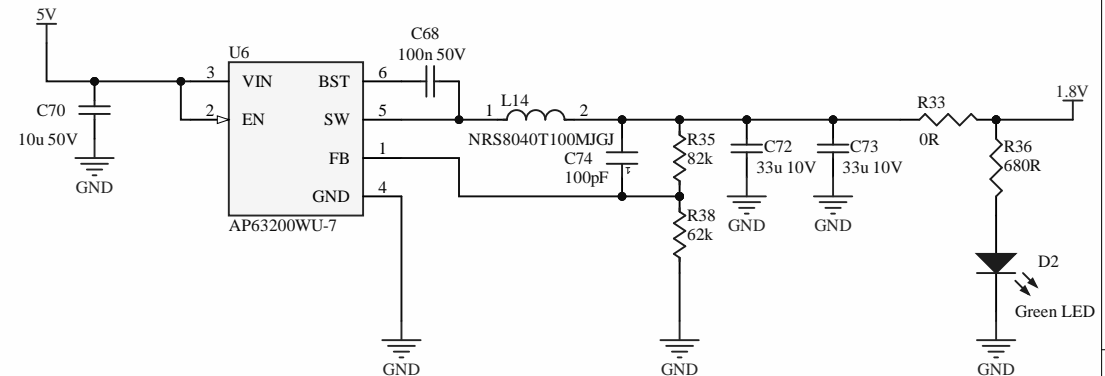
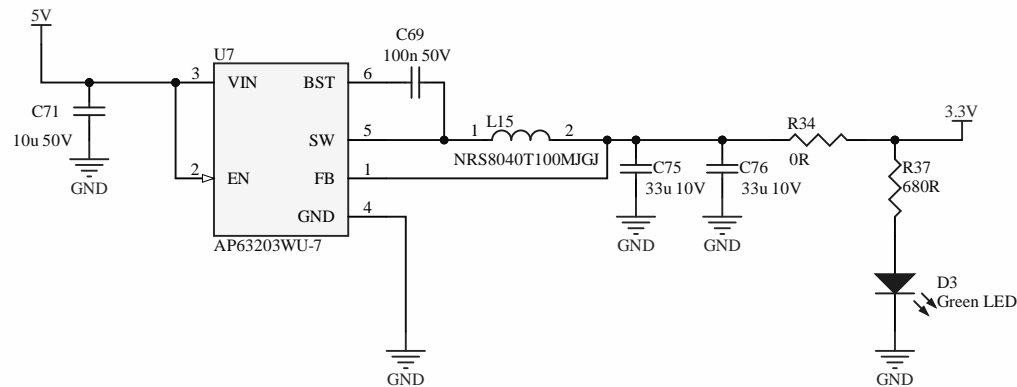
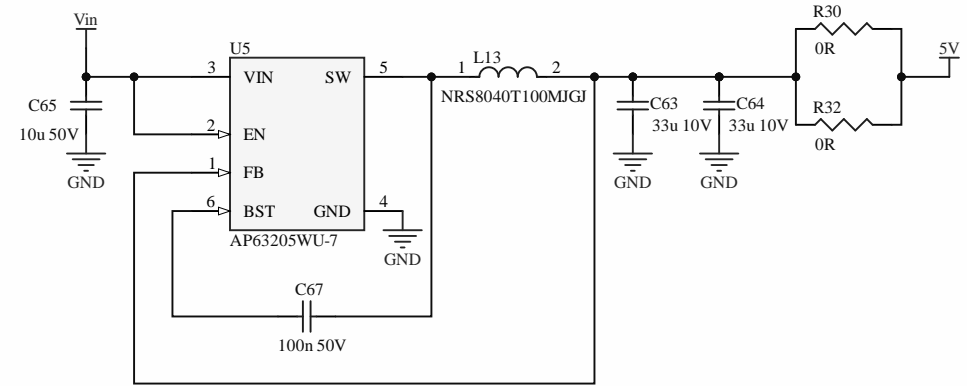
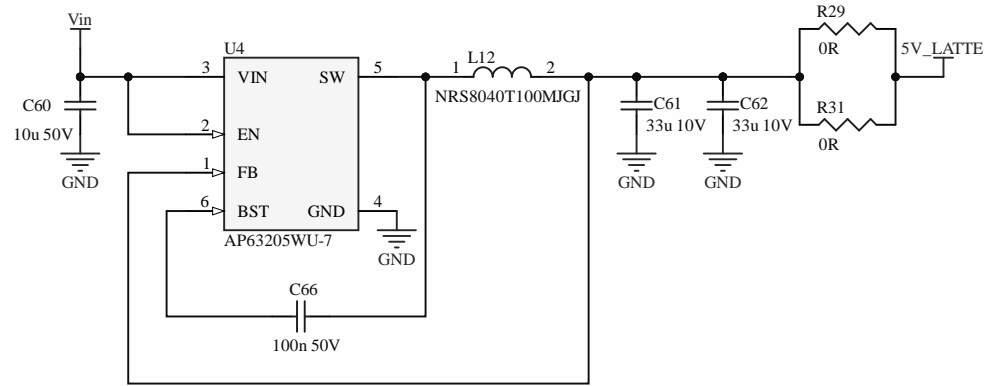


<b>Project:</b> CAB_GammaMRI_project_2.PrjPcb		<b>h e p i a</b>  Haute école du paysage, d'ingénierie et d'architecture de Genève		
<b>Sheet Title:</b> GammaMRICAB_2 - Reception.SchDoc		<b>Designer:</b> Stoeckli H. <b>Resp:</b> Giandomenico N.		
<b>Labo:</b> HEPIA-elec		<b>Sheet:</b> 6 / 9 <b>Rev:</b> 01 <b>Date:</b> 03.01.2023		
<b>Size</b> A4	<b>Document:</b> CAB_GammaMRI_project_2.PrjPcb			
This document is the property of hepia, Geneva Switzerland, and contains confidential information. It shall not be used, disclosed or reproduced in any manner without written permission				

# ADconversion

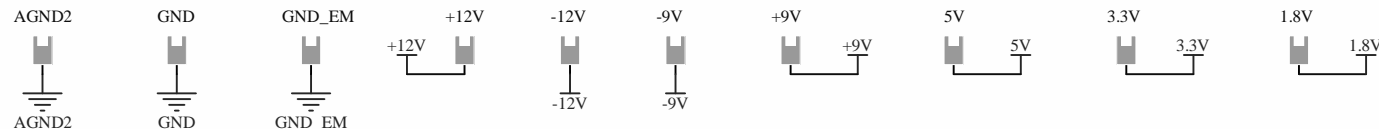
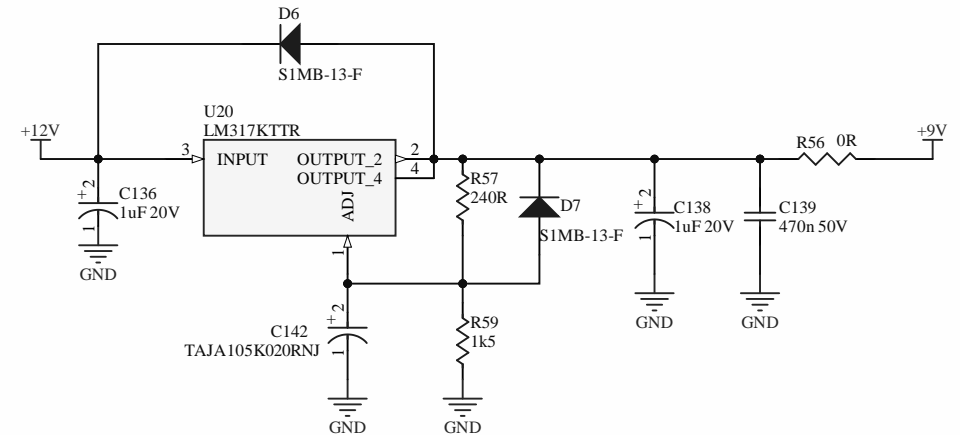
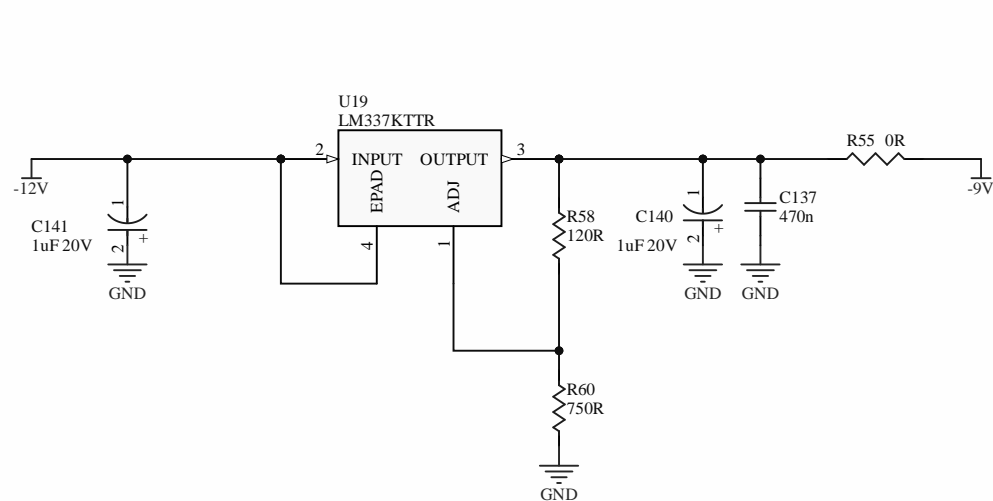
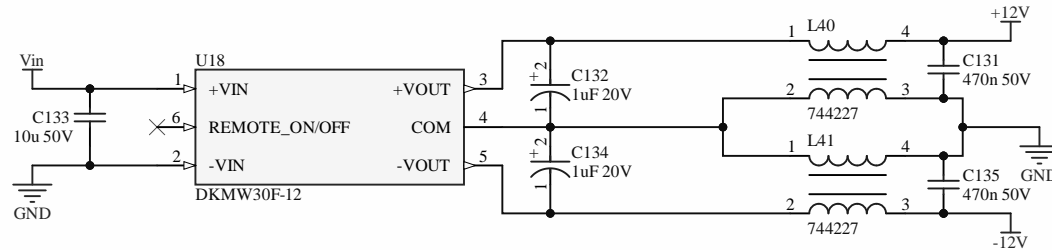


<b>Project:</b> CAB_GammaMRI_project_2.PrjPcb		<b>h e p i a</b> Haute école du paysage, d'ingénierie et d'architecture de Genève
<b>Sheet Title:</b> GammaMRICAB_2 - ADconversion.SchDoc		
<b>Labo:</b> HEPIA-elec		<b>Designer:</b> Stoeckli H. <b>Resp:</b> Giandomenico N.
<b>Sheet:</b> 7 / 9	<b>Rev:</b> 01	<b>Date:</b> 03.01.2023
<b>Size</b> A4	<b>Document:</b> CAB_GammaMRI_project_2.PrjPcb	
This document is the property of hepia, Geneva Switzerland, and contains confidential information. It shall not be used, disclosed or reproduced in any manner without written permission		

$$V_{in} = 24 \text{ [V]}$$


<b>Project:</b> CAB_GammaMRI_project_2.PrjPcb		<b>h e p i a</b> Haute école du paysage, d'ingénierie et d'architecture de Genève	
<b>Sheet Title:</b> GammaMRCAB_2 - Power Management		SchDoc	
<b>Labo:</b> HEPIA-elec		<b>Designer:</b> Stoeckli H. <b>Resp:</b> Gandomenico N.	
<b>Sheet:</b> 8 / 9		<b>Rev:</b> 01	
<b>Date:</b> 03.01.2023			
<b>Size</b> A4	<b>Document:</b> CAB_GammaMRI_project_2.PrjPcb		
This document is the property of hepia, Geneva Switzerland, and contains confidential information. It shall not be used, disclosed or reproduced in any manner without written permission			



$$V_{in} = 24 \text{ [V]}$$


<b>Project:</b> CAB_GammaMRI_project_2.PrjPcb		<b>h e p i a</b> Haute école du paysage, d'ingénierie et d'architecture de Genève	
<b>Sheet Title:</b> GammaMRICAB - Power Management2.SchDoc		<b>Designer:</b> Stoeckli H. <b>Resp:</b> Giandomenico N.	
<b>Labo:</b> HEPIA-elec			
<b>Sheet:</b> 9 / 9		<b>Rev:</b> 01	<b>Date:</b> 03.01.2023
<b>Size</b> A4	<b>Document:</b> CAB_GammaMRI_project_2.PrjPcb		
This document is the property of hepia, Geneva Switzerland, and contains confidential information. It shall not be used, disclosed or reproduced in any manner without written permission			