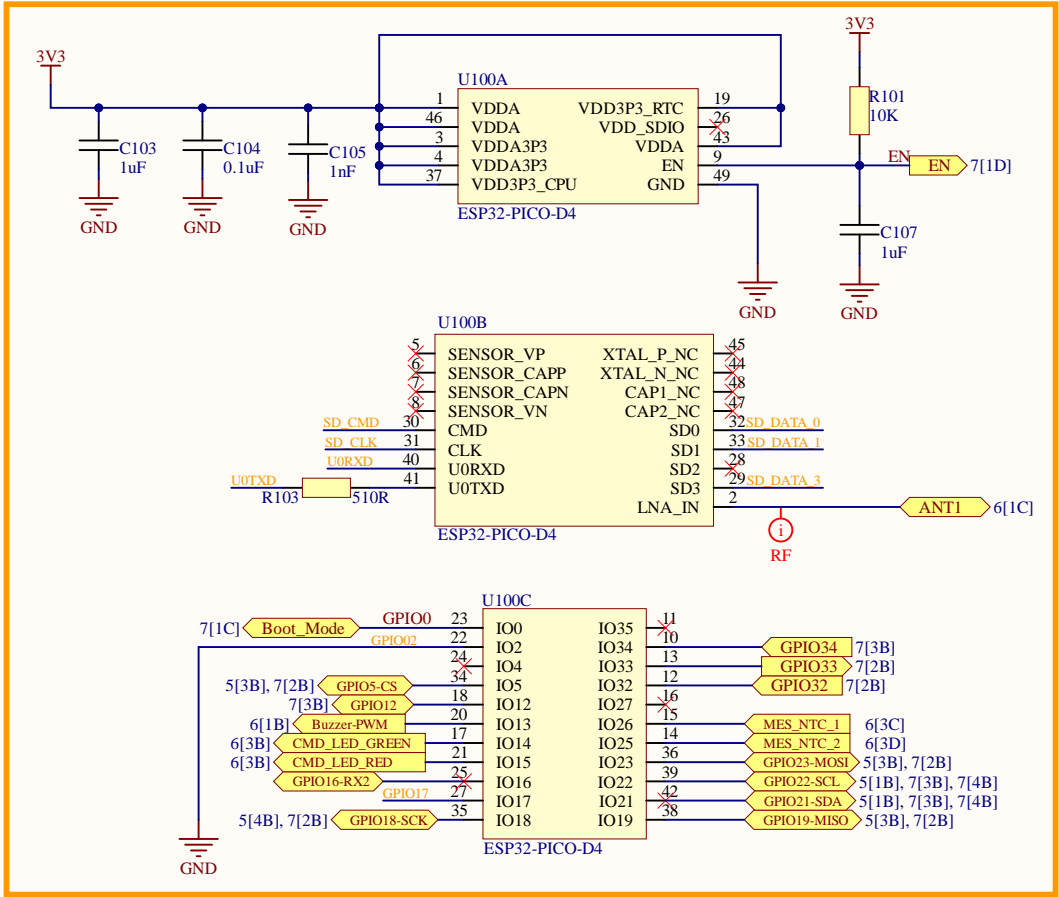
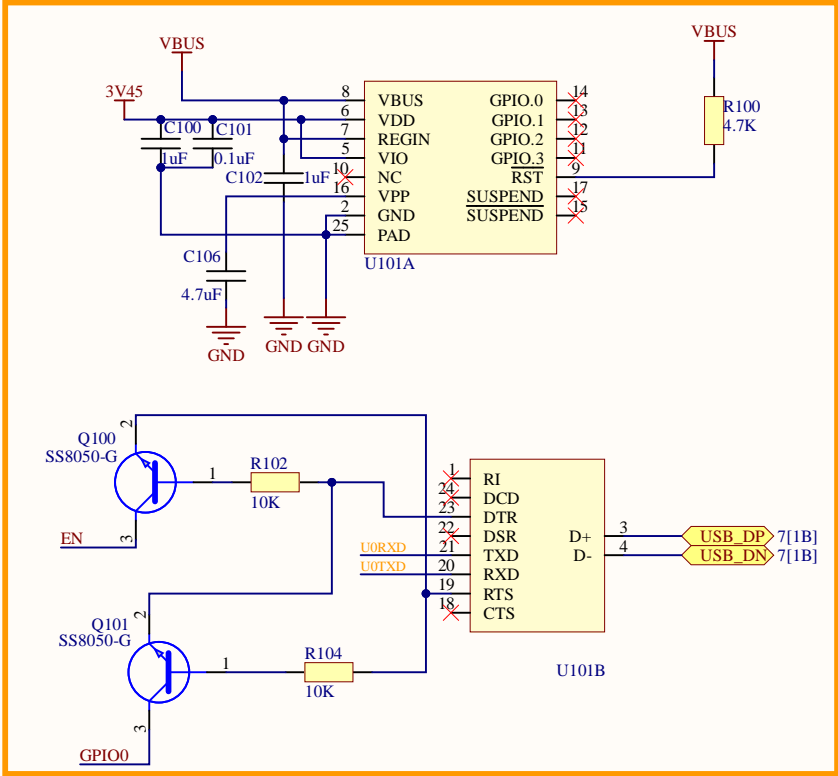


# Microcontrôleur et contrôleur USB

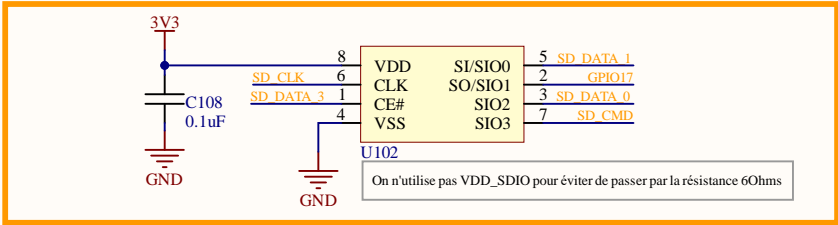
## ESP32



## Contrôleur USB à UART



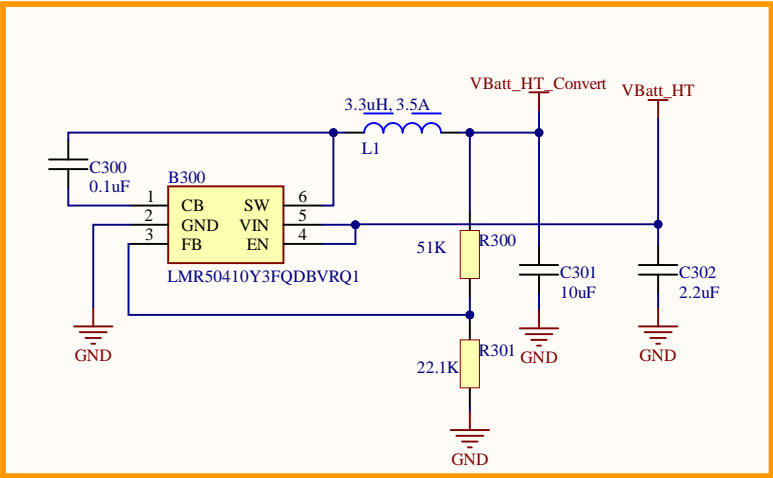
## PSRAM



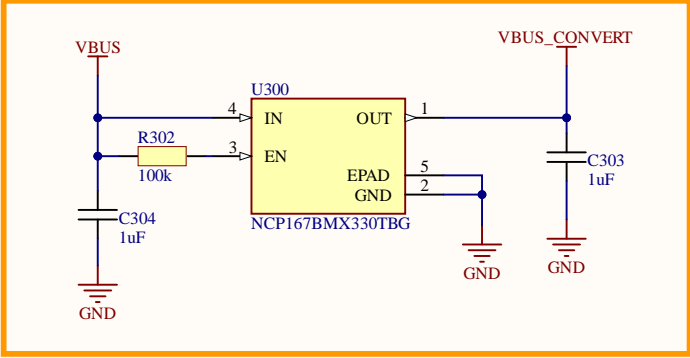
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Projet M1 2024			
Size	Number		Revision
A4			V1.0 Rev A
Date:	6/20/2025		Sheet 1 of 7
File:	C:\Users\...\microcontrôleur.SchDoc		Drawn By: J.CLEMENT & D.FOURNIER

# Alimentations USB, BT et HT

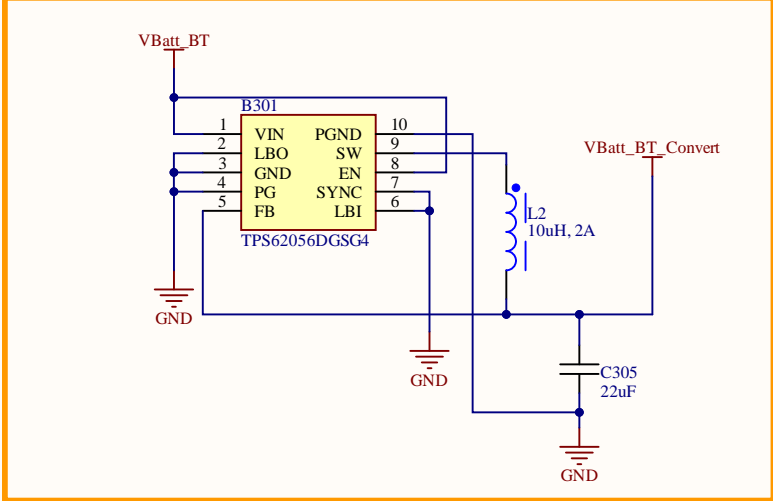
Conversion de la tension HT en 3,3 V



Conversion de la tension USB en 3,3 V

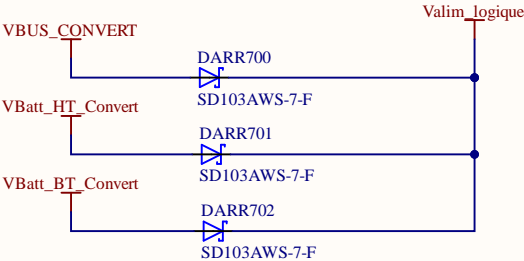


Conversion de la tension BT en 3,3 V



Title		
Projet M1 2024		
Size	Number	Revision
A4		V1.0 Rev A
Date:	6/20/2025	Sheet 2 of 7
File:	C:\Users\...\alimentation.SchDoc	Drawn By: J.CLEMENT & D.FOURNIER

# Alimentation logique hardware

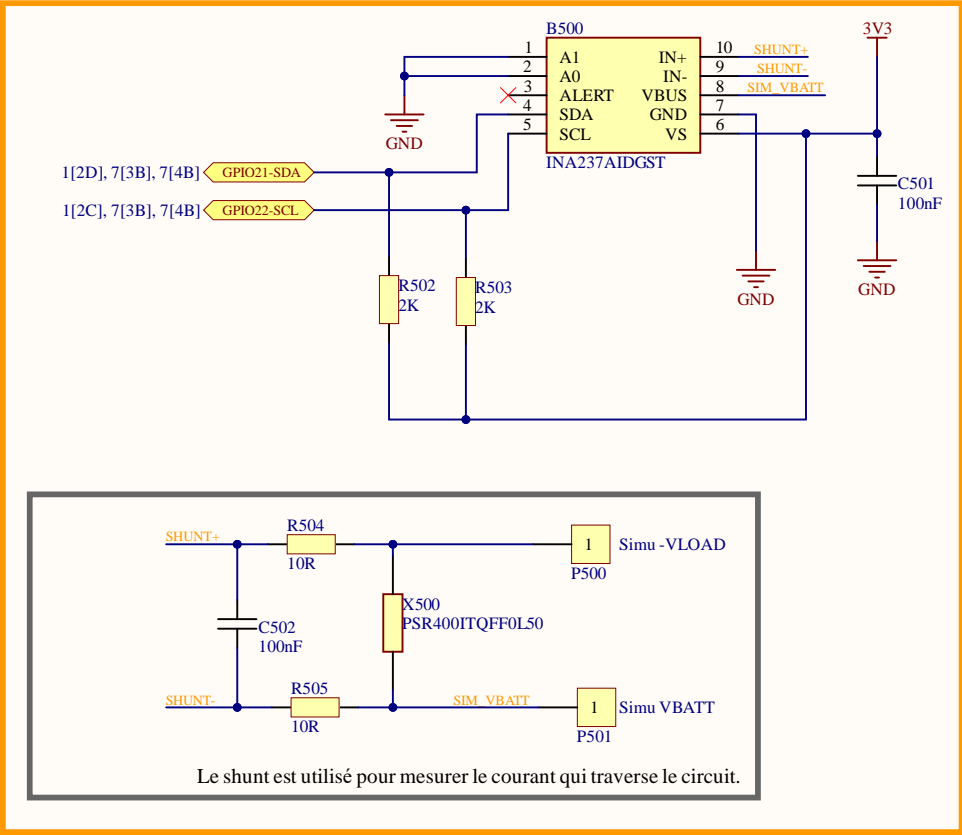


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A4		V1.0 Rev A
Date:	6/20/2025	Sheet 3 of 7
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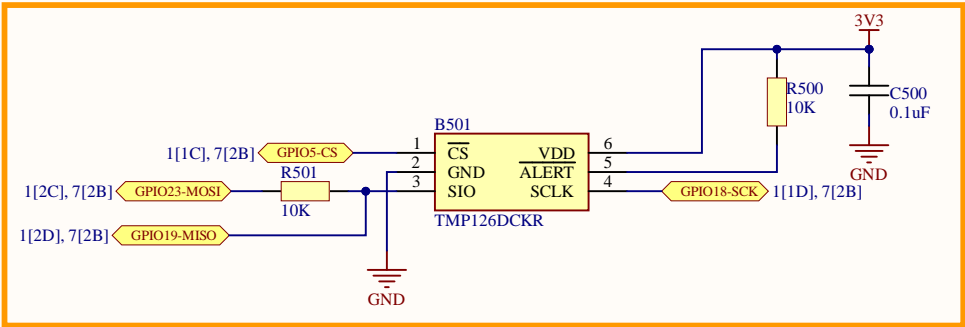


# Mesure et acquisition

Mesure du courant



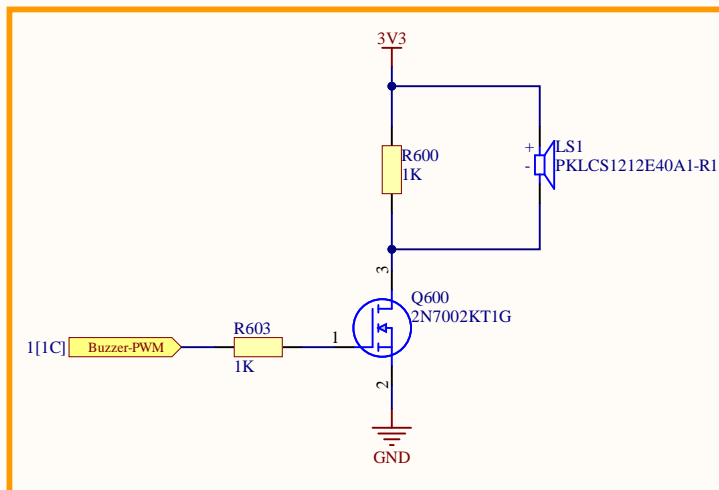
Mesure de la température



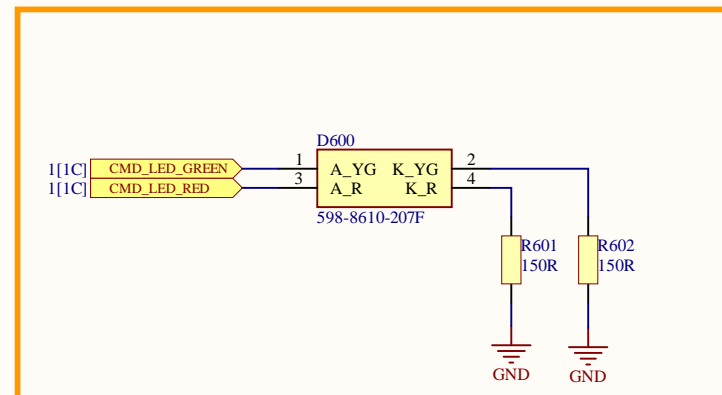
Title		
Projet M1 2024		
Size	Number	Revision
A4		V1.0 Rev A
Date:	6/20/2025	Sheet 5 of 7
File:	C:\Users\...\mesure_&_acquisition.SchDoc Drawn By: J.CLEMENT & D.FOURNIER	

# Interface Homme-Machine (HMI)

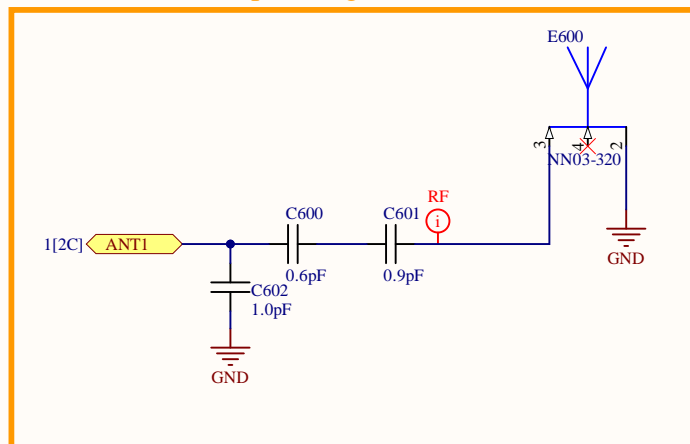
Pilotage buzzer



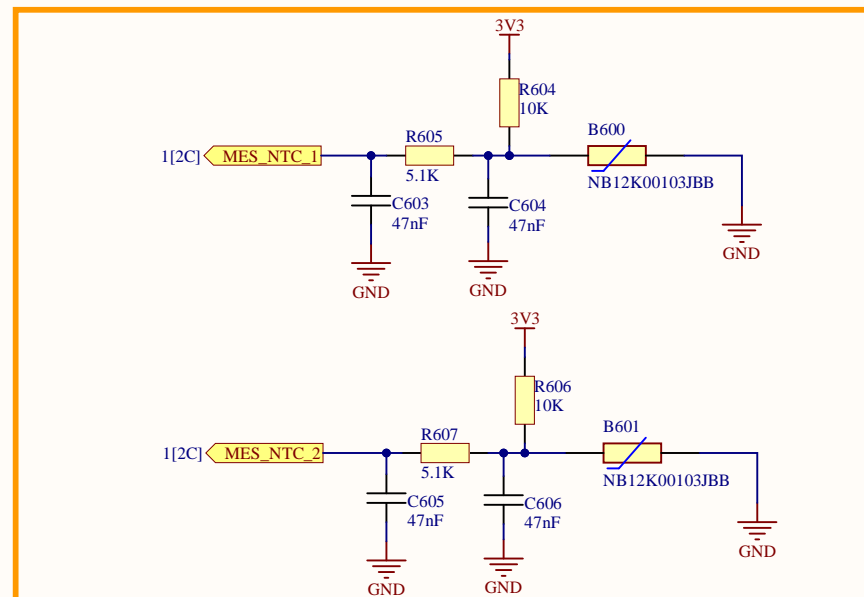
Pilotage led



Antenne pour la gestion du Bluetooth



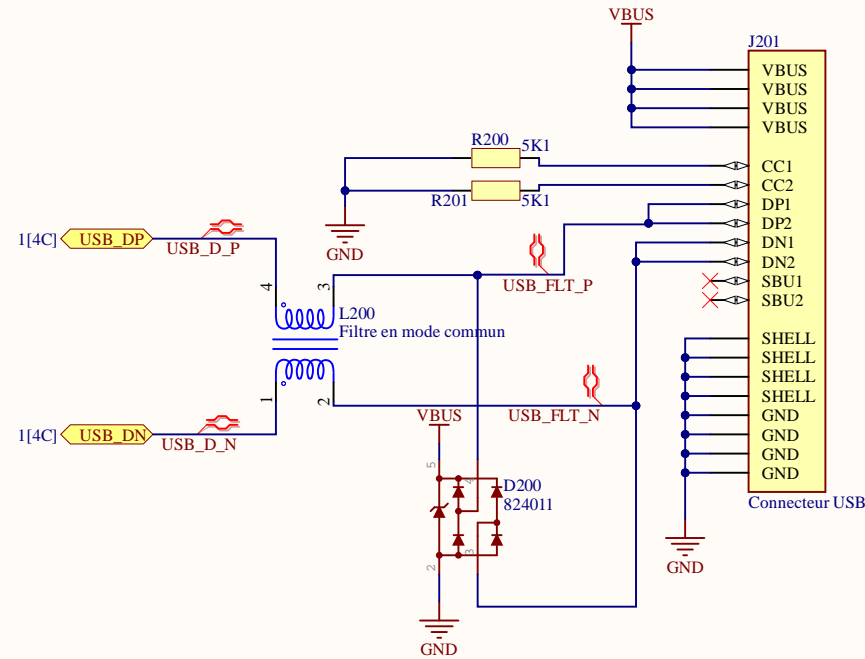
Mesures CTN



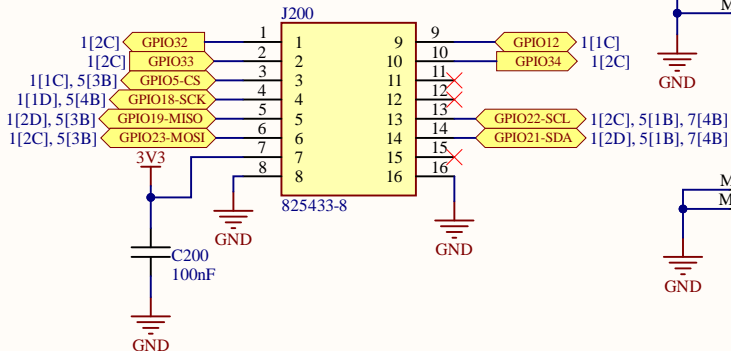
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Projet M1 2024		
Size	Number	Revision
A4		V1.0 Rev A
Date:	6/20/2025	Sheet 6 of 7
File:	C:\Users\...\hmi.SchDoc	Drawn By: J.CLEMENT & D.FOURNIER

# Connecteurs

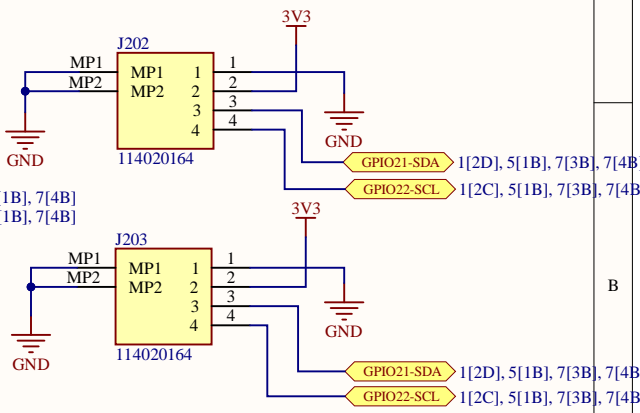
### Connection USB



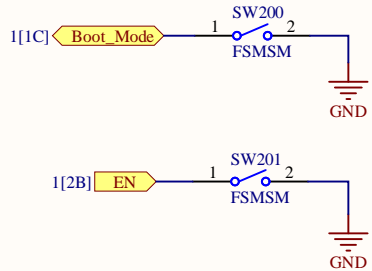
### Connection Mikrobis



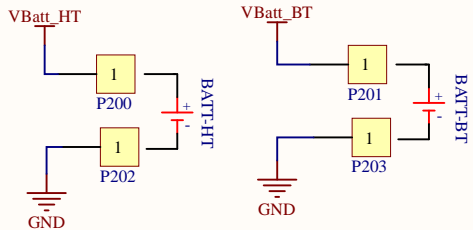
### Connection Grove



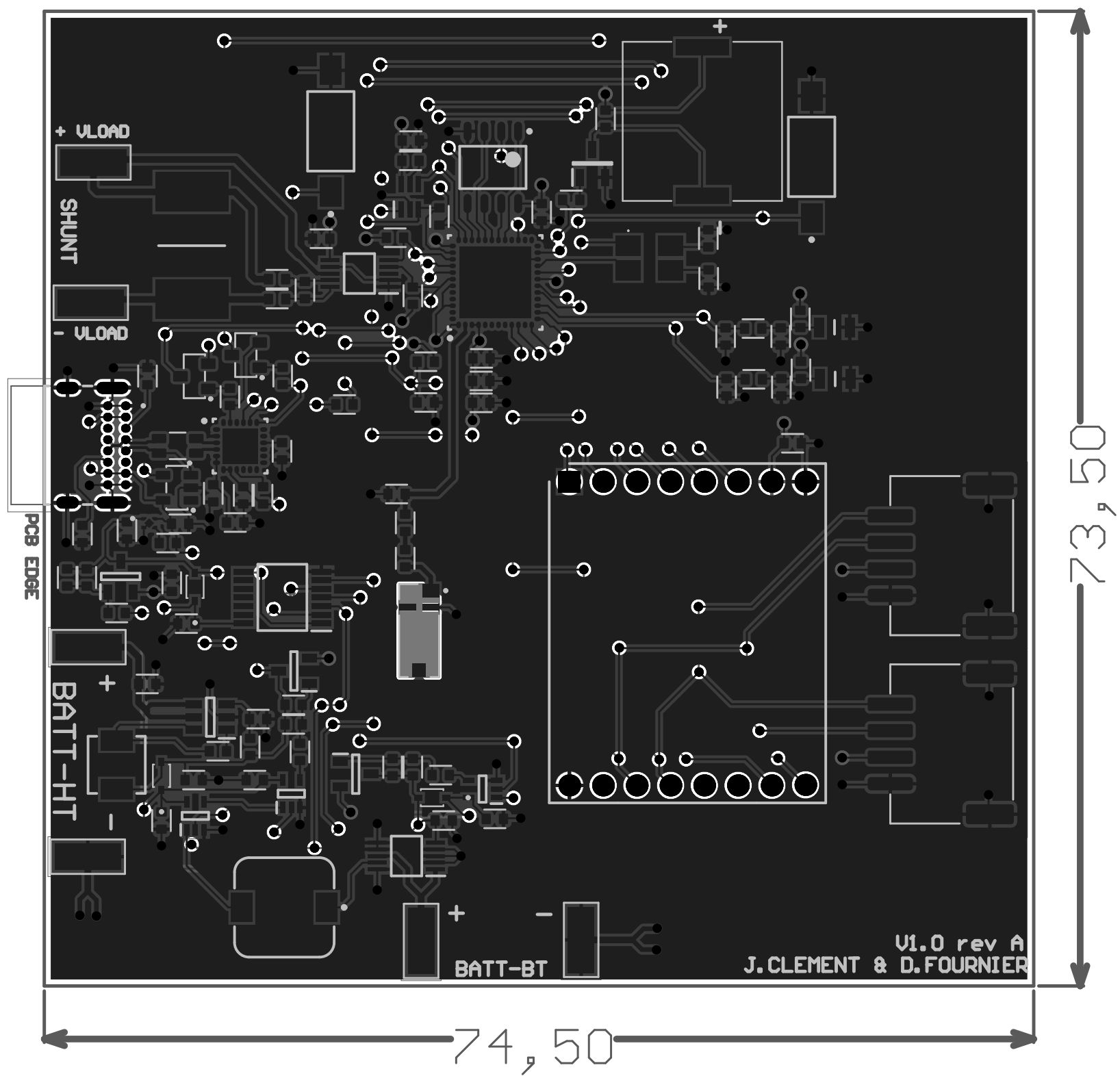
### Bouton reset / boot



### Alimentations BT et HT



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File:	C:\Users\...\connecteurs.SchDoc	Drawn By: J.CLEMENT & D.FOURNIER





# Board Stack Report