

Resistors are 1% 1/16W 0402 unless otherwise noted
Capacitors are 10% 50V X7R 0402 unless otherwise noted

Revision	Change Order

CM5 USB 3.0 build option
CM4 OUT CM5

Designed by: Jean-Francois Bilodeau
P.Eng #6022173
203-1690 Rue des quatre-saisons
Sherbrooke, Canada, J1E0N2
KiCad Rev 9.0

Project: RPI CMx Carrier

Sheet Title: USB_3.kicad_sch

Date: 2025-12-07

Drawn by: Jean-Francois Bilodeau

Approved by: Not applicable

BOM: RPLCMxCarrier_2.00-0A_BOM

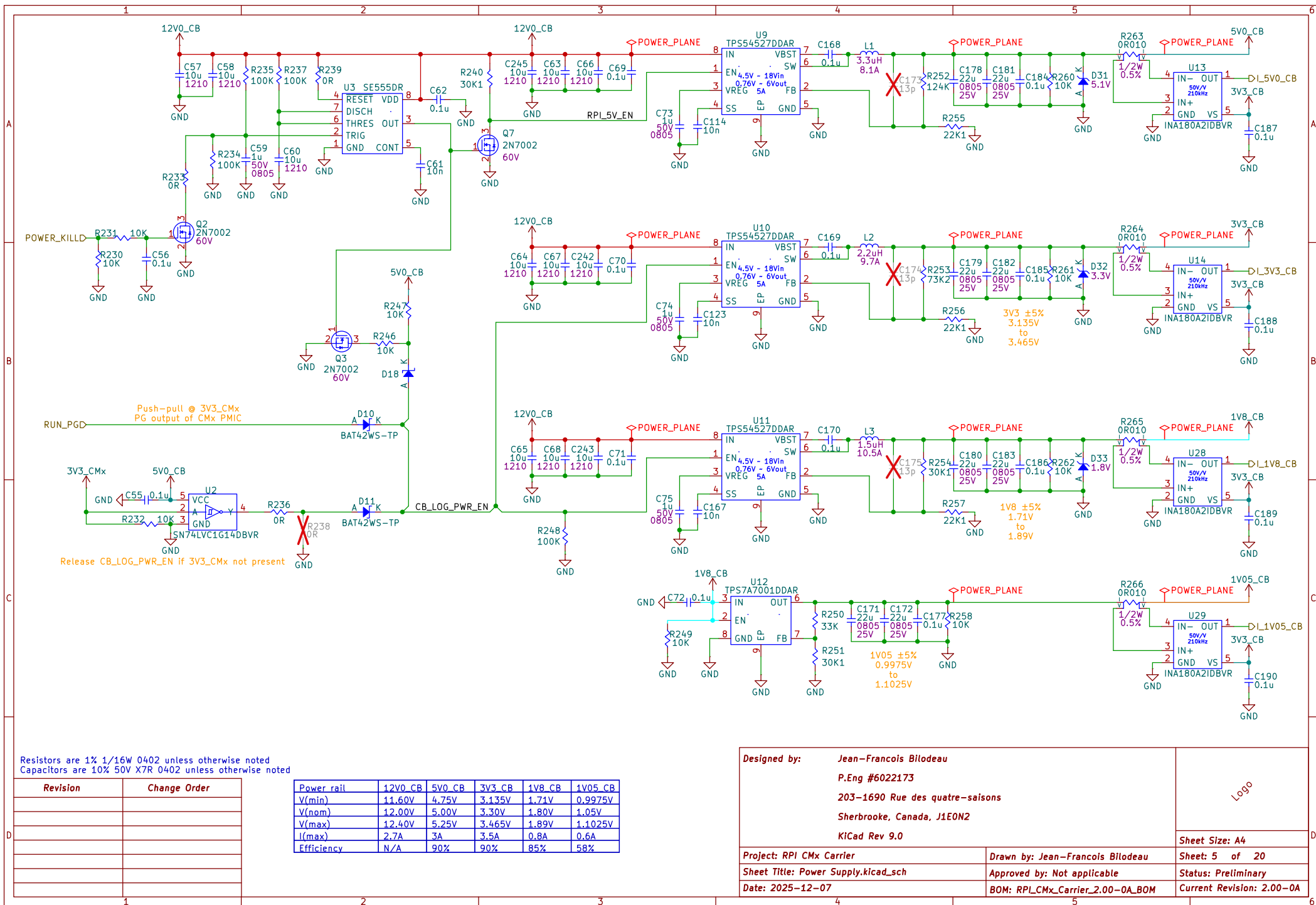
Logo

Sheet Size: A4

Sheet: 4 of 20

Status: Preliminary

Current Revision: 2.00-0A



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Power rail	12V0_CB	5V0_CB	3V3_CB	1V8_CB	1V05_CB
V(min)	11.60V	4.75V	3.135V	1.71V	0.9975V
V(nom)	12.00V	5.00V	3.30V	1.80V	1.05V
V(max)	12.40V	5.25V	3.465V	1.89V	1.1025V
I(max)	2.7A	3A	3.5A	0.8A	0.6A
Efficiency	N/A	90%	90%	85%	58%

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KiCad Rev 9.0

Project: RPI CMx Carrier

Sheet Title: Power Supply.kicad_sch

Date: 2025-12-07

Drawn by: Jean-Francois Bilodeau

Approved by: Not applicable

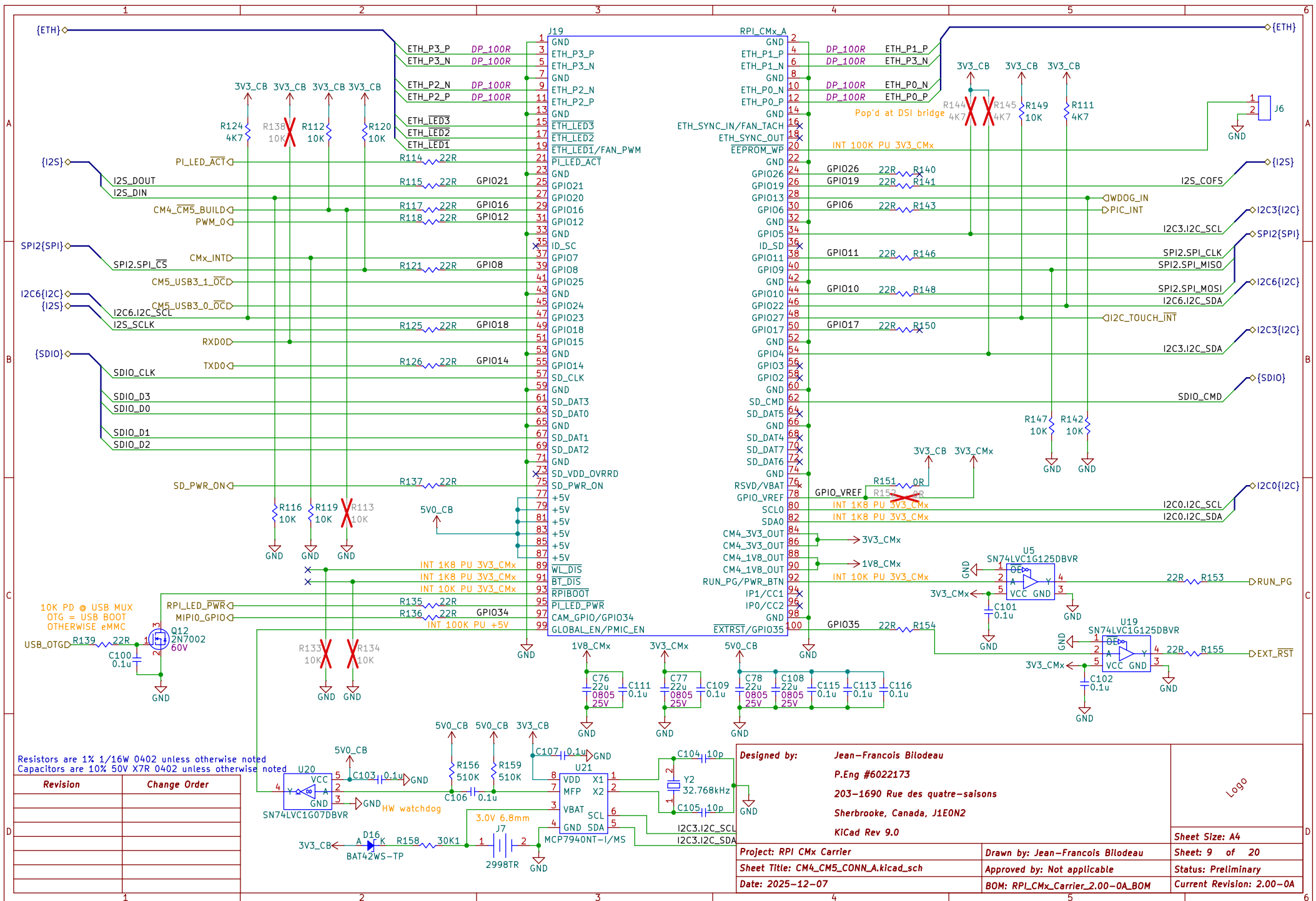
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Sheet Size: A4

Sheet: 5 of 20

Status: Preliminary

Current Revision: 2.00-0A

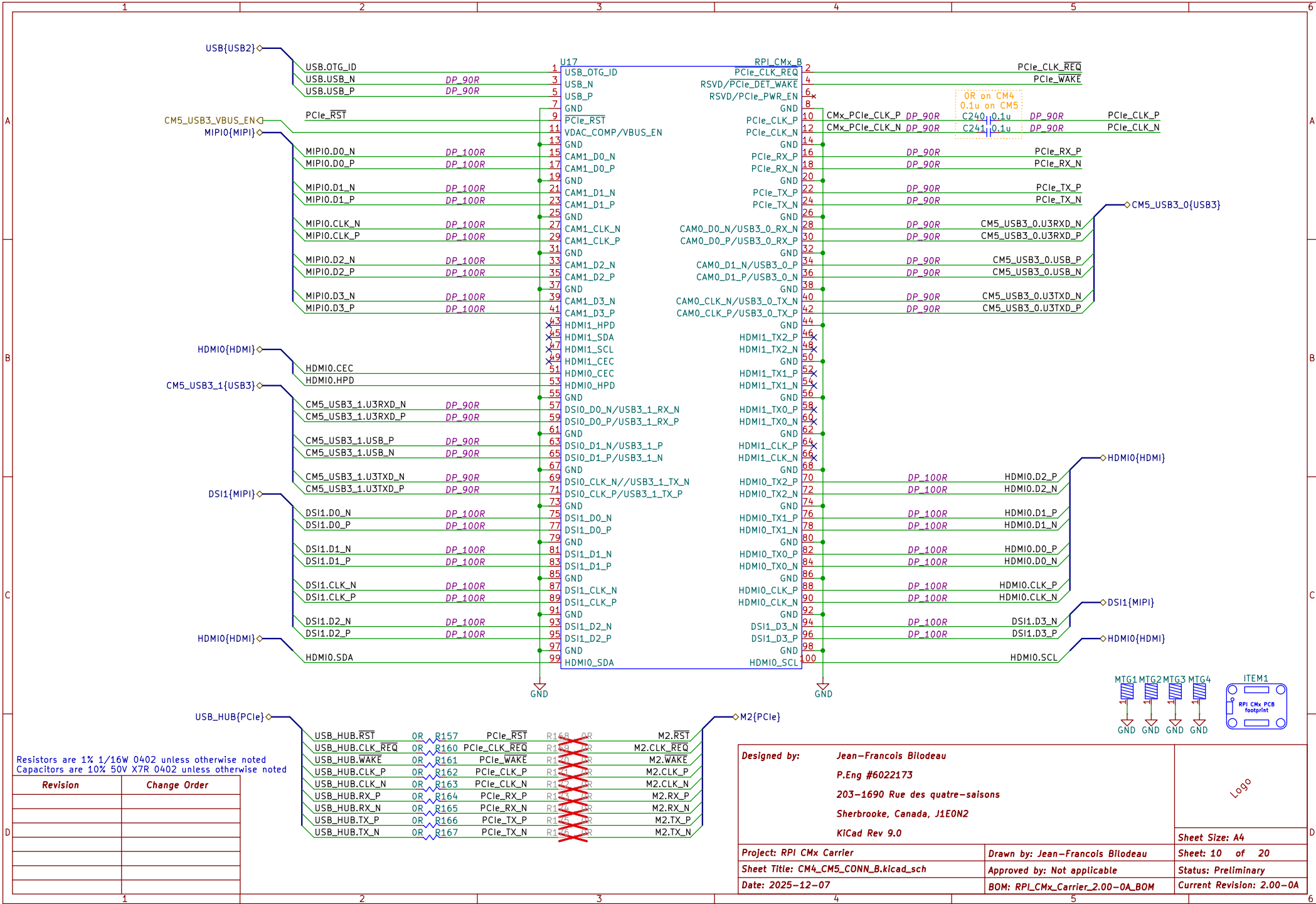


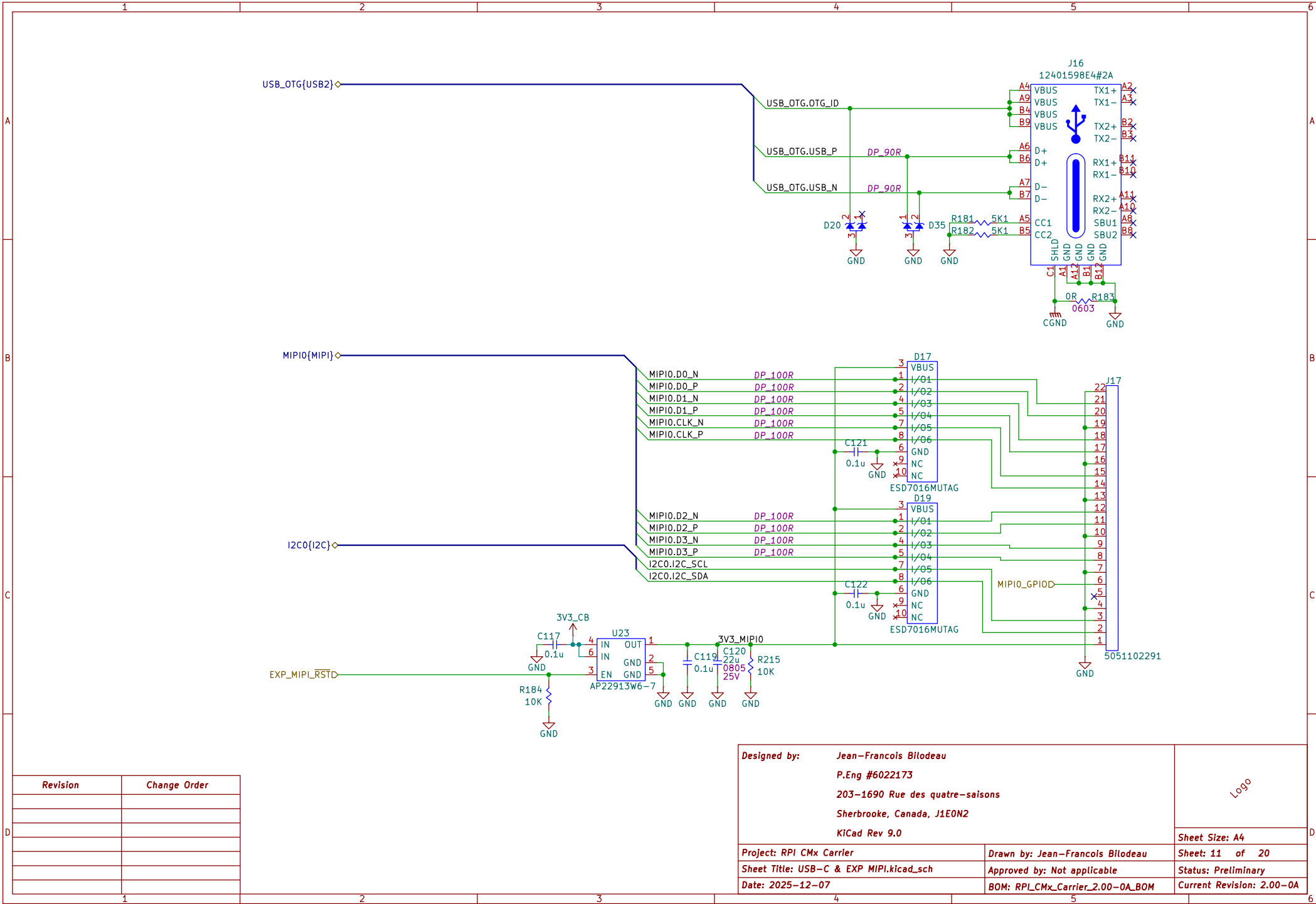
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Designed by: Jean-Francois Bilodeau P.Eng #6022173 203-1690 Rue des quatre-saisons Sherbrooke, Canada, J1E0N2 KiCad Rev 9.0	
Project: RPi CMx Carrier	Drawn by: Jean-Francois Bilodeau
Sheet Title: CM4_CM5_CONN_A.kicad_sch	Approved by: Not applicable
Date: 2025-12-07	BOM: RPL_CMx_Carrier_2.00-0A_BOM

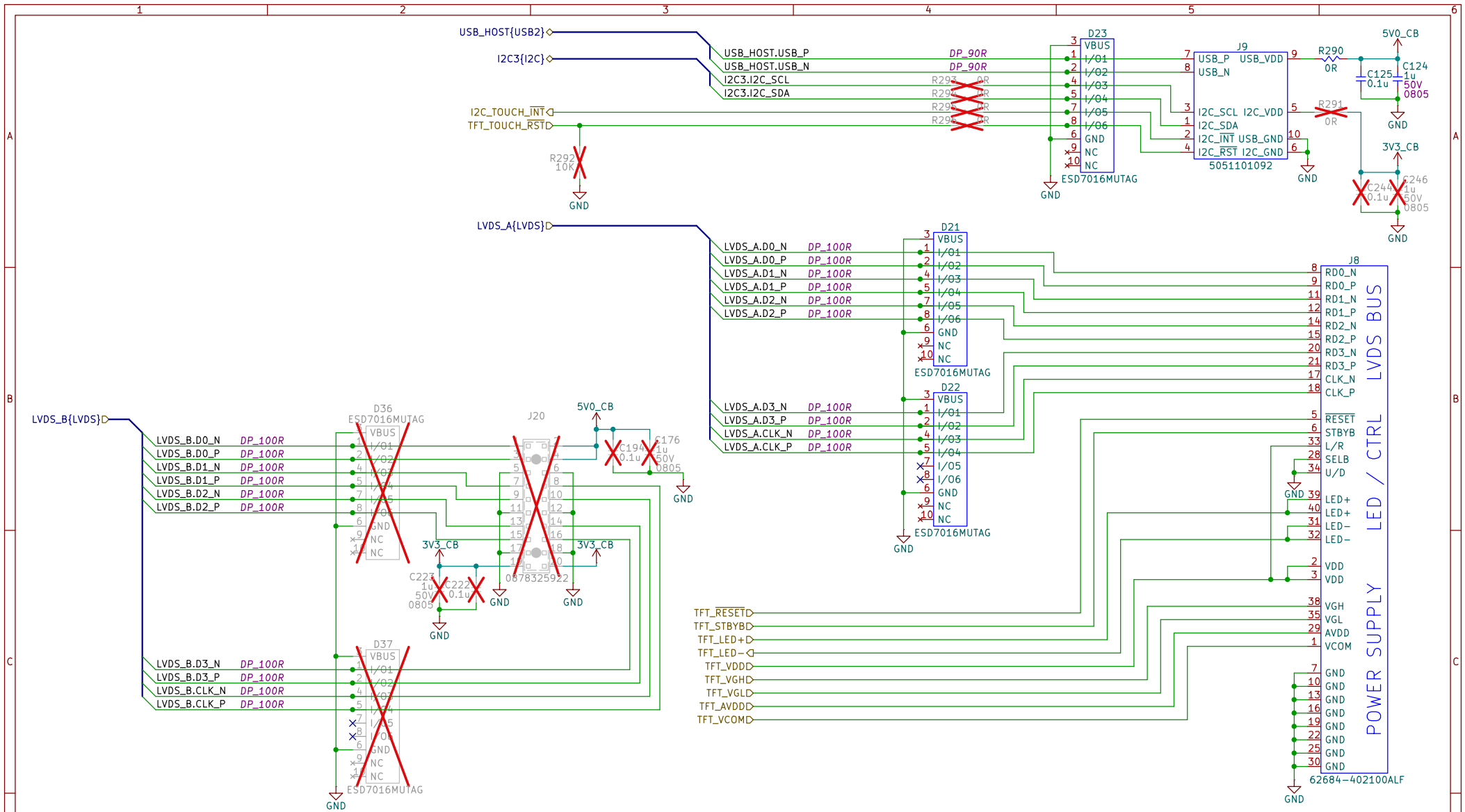
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Sheet Size: A4
Sheet: 9 of 20
Status: Preliminary
Current Revision: 2.00-0A





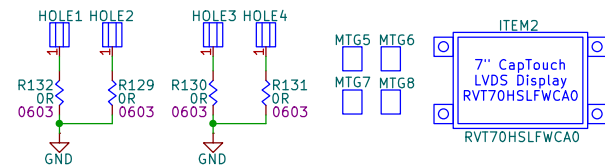
Revision	Change Order

Designed by: Jean-Francois Bilodeau P.Eng #6022173 203-1690 Rue des quatre-saisons Sherbrooke, Canada, J1E0N2 KiCad Rev 9.0		Logo
Project: RPI CMx Carrier	Drawn by: Jean-Francois Bilodeau	
Sheet Title: USB-C & EXP MIPI.kicad_sch	Approved by: Not applicable	Sheet: 11 of 20
Date: 2025-12-07	BOM: RPL_CMx_Carrier_2.00-0A_BOM	Status: Preliminary
		Current Revision: 2.00-0A

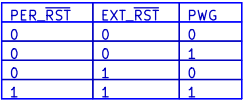


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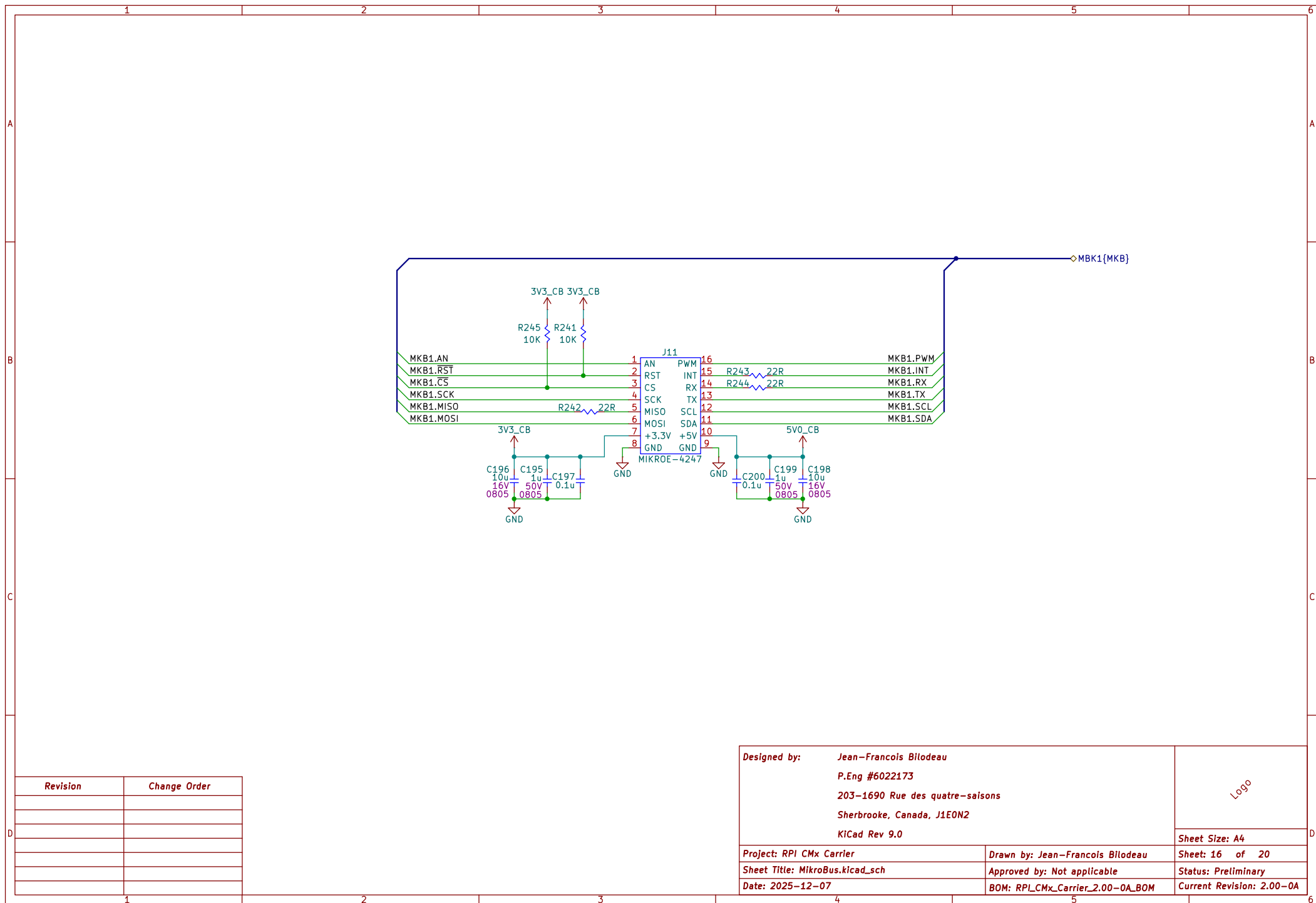


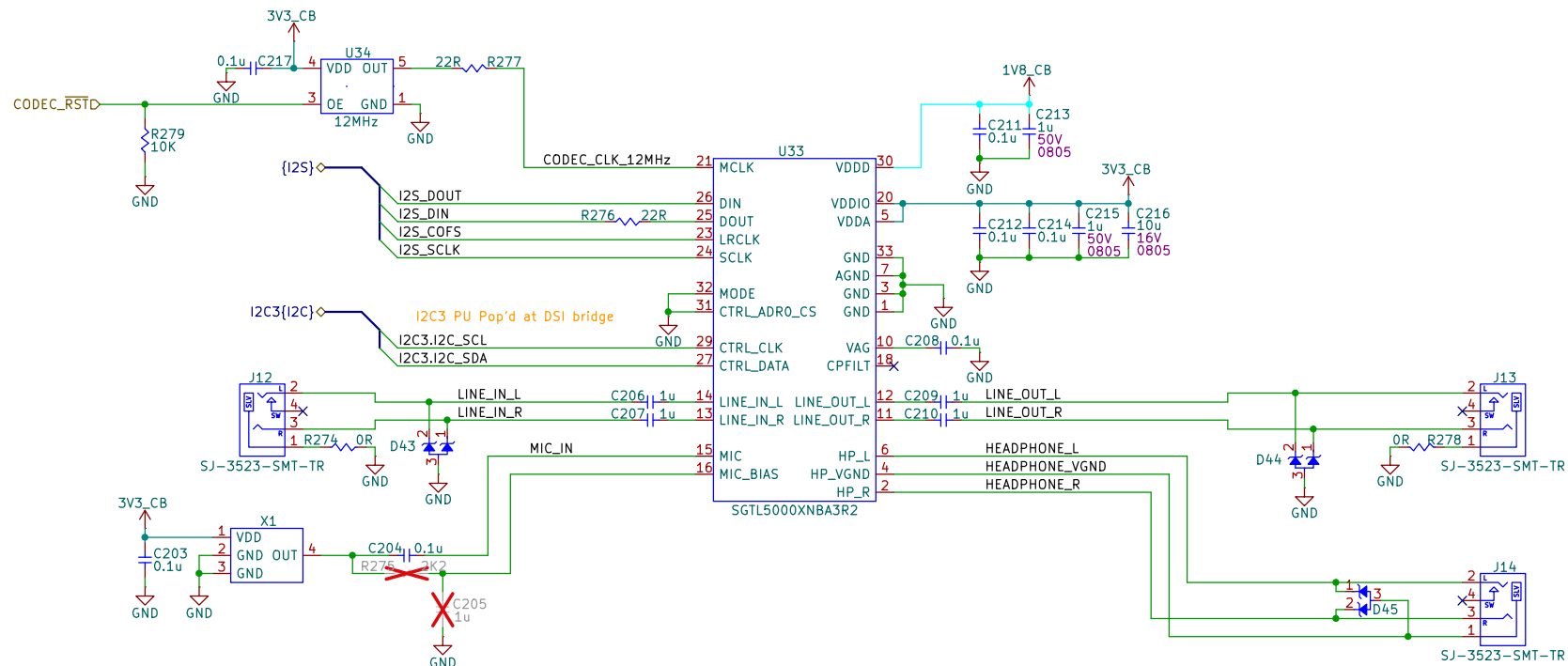
Designed by: Jean-Francois Bilodeau P.Eng #6022173 203-1690 Rue des quatre-saisons Sherbrooke, Canada, J1E0N2 KiCad Rev 9.0		Logo
Project: RPI CMx Carrier	Drawn by: Jean-Francois Bilodeau	
Sheet Title: TFT_CONN.kicad_sch	Approved by: Not applicable	
Date: 2025-12-07	BOM: RPL_CMx_Carrier_2.00-0A_BOM	
Sheet Size: A4		Sheet: 13 of 20
Status: Preliminary		Current Revision: 2.00-0A



	Revision	Change Order
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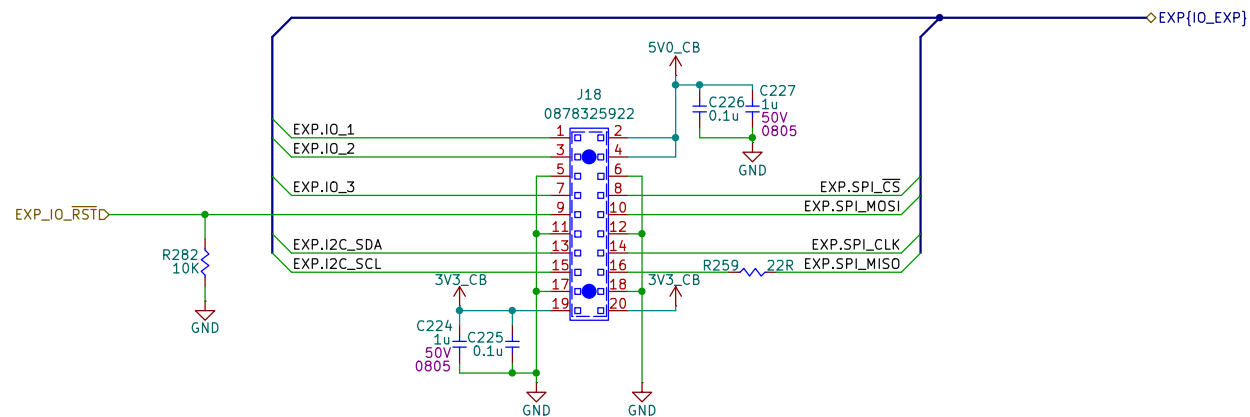
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Sheet: 15 of 20
Status: Preliminary
Current Revision: 2.00-0A





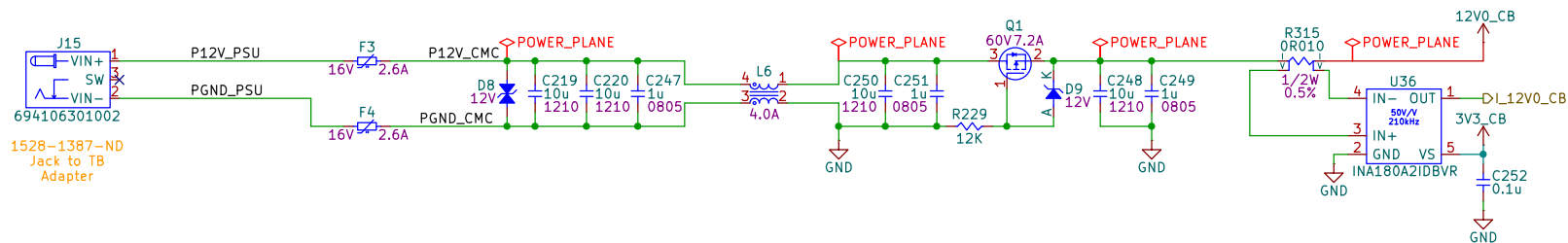
Revision	Change Order

Designed by: Jean-Francois Bilodeau P.Eng #6022173 203-1690 Rue des quatre-saisons Sherbrooke, Canada, J1E0N2 KiCad Rev 9.0		Logo
Project: RPI CMx Carrier Sheet Title: AUDIO_CODEC.kicad_sch Date: 2025-12-07	Drawn by: Jean-Francois Bilodeau Approved by: Not applicable BOM: RPL_CMx_Carrier_2.00-0A_BOM	
Sheet Size: A4 Sheet: 17 of 20 Status: Preliminary Current Revision: 2.00-0A		



Revision	Change Order

Designed by: Jean-Francois Bilodeau P.Eng #6022173 203-1690 Rue des quatre-saisons Sherbrooke, Canada, J1E0N2 KiCad Rev 9.0		Logo Sheet Size: A4
Project: RPI CMx Carrier	Drawn by: Jean-Francois Bilodeau	
Sheet Title: Expansion_Io.kicad_sch	Approved by: Not applicable	Sheet: 18 of 20
Date: 2025-12-07	BOM: RPLCMx_Carrier_2.00-0A_BOM	Current Revision: 2.00-0A



Revision	Change Order

Designed by: Jean-Francois Bilodeau P.Eng #6022173 203-1690 Rue des quatre-saisons Sherbrooke, Canada, J1E0N2 KiCad Rev 9.0		Logo
Project: RPI CMx Carrier		Sheet Size: A4
Sheet Title: POWER INPUT.kicad_sch	Drawn by: Jean-Francois Bilodeau	Sheet: 20 of 20
Date: 2025-12-07	Approved by: Not applicable	Status: Preliminary
BOM: RPLCMx_Carrier_2.00-0A_BOM		Current Revision: 2.00-0A