

PCB Overview

2022

LAST UPDATED: 01-05-2024

DEMO

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Sample Boards

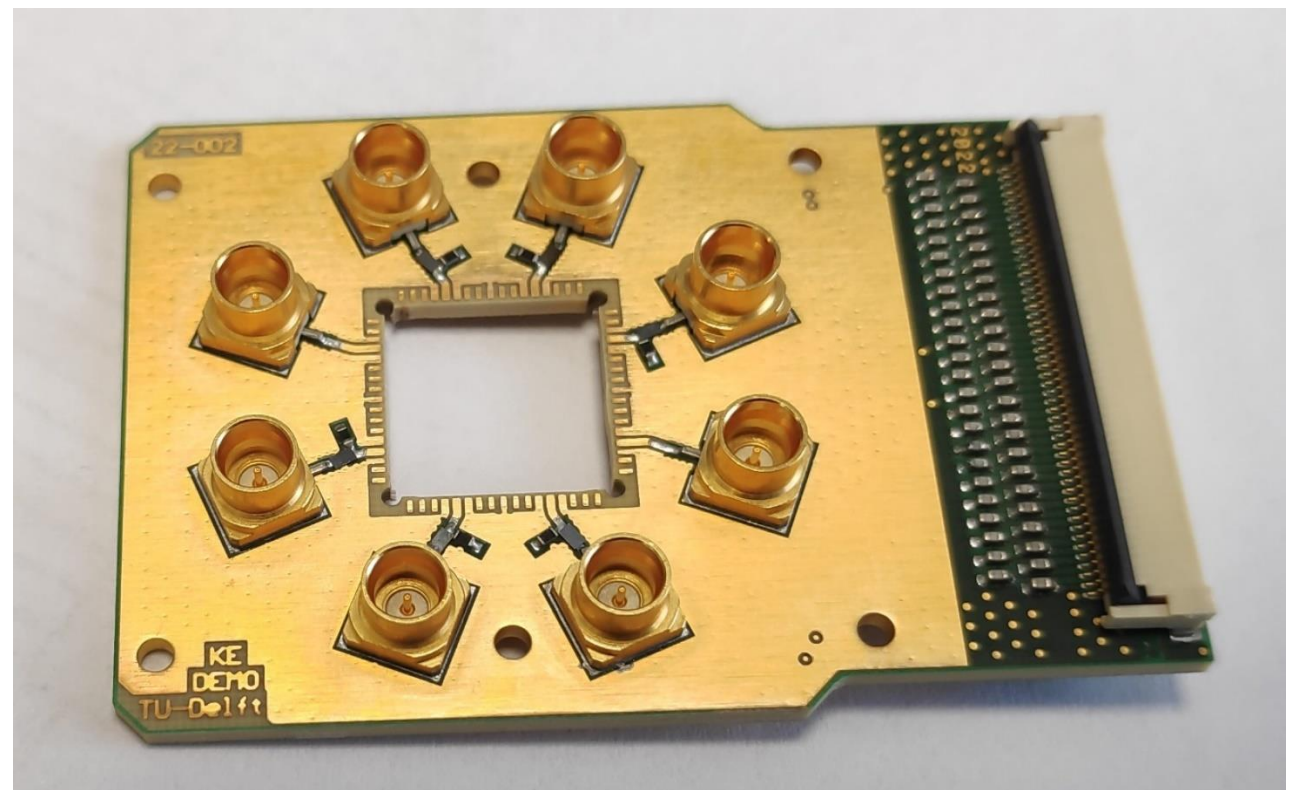
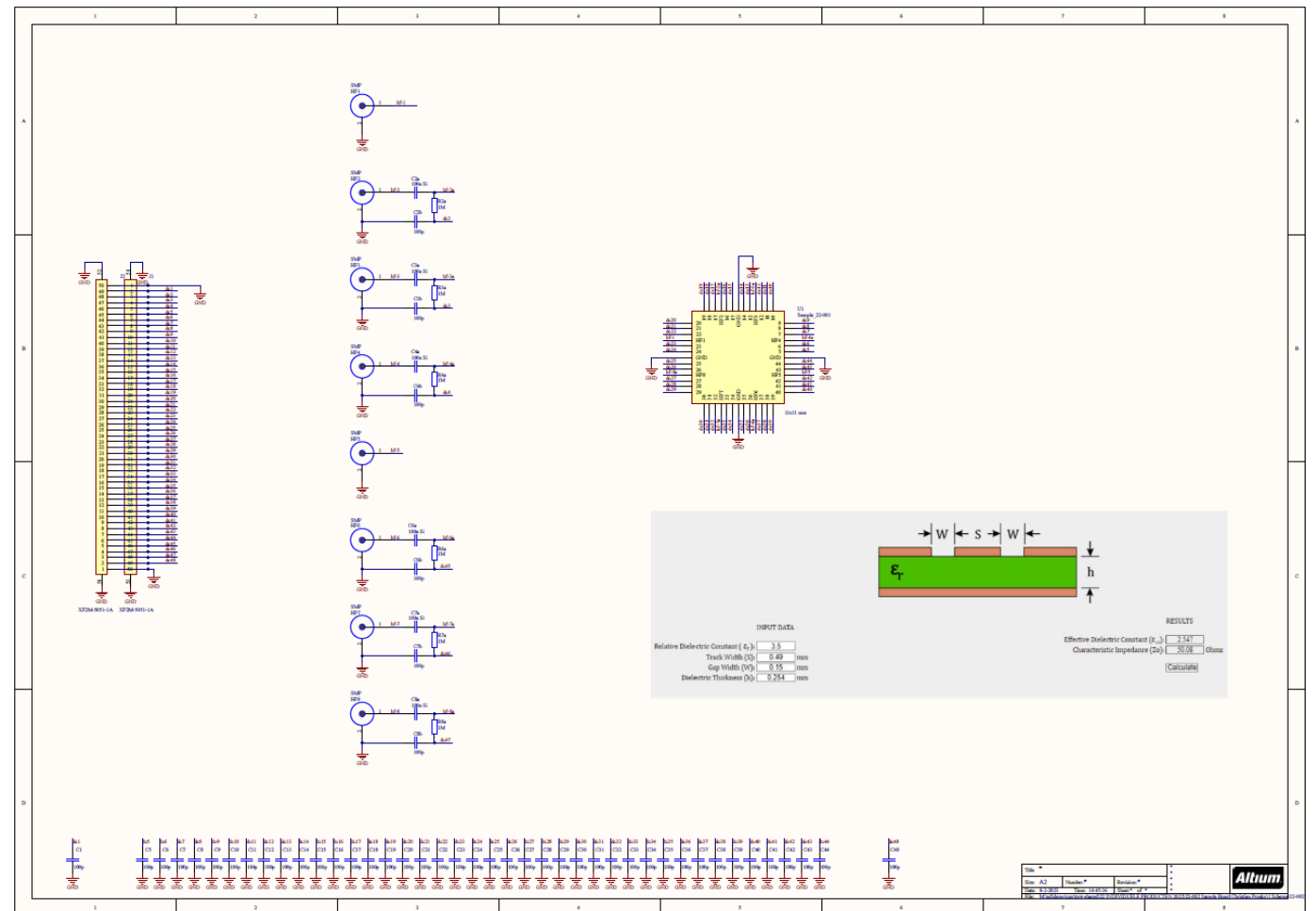
- 22-002 Sample Board Christian Prosko
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22-002

Sample Board Christian Prosko

Size (L x W x t) (mm)	52 x 35 x 1.5
Dielectric Material	RO4350B / RO4450F
Z0 (Design)	50Ω
Layers	6
Copper Finish	Ni / Au
RF Signals (Input)	6 (with Bias-Tees)
RF Signals (Read-out)	2
DC Signals	48
Connector Type (RF)	SMP
Connector Type (DC)	FFC50 RA

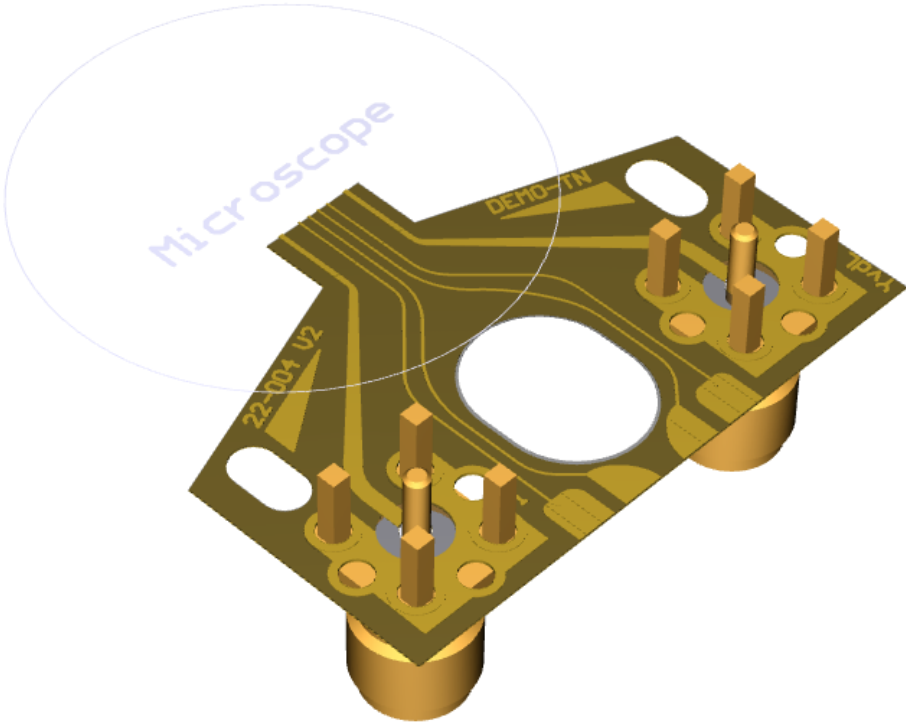
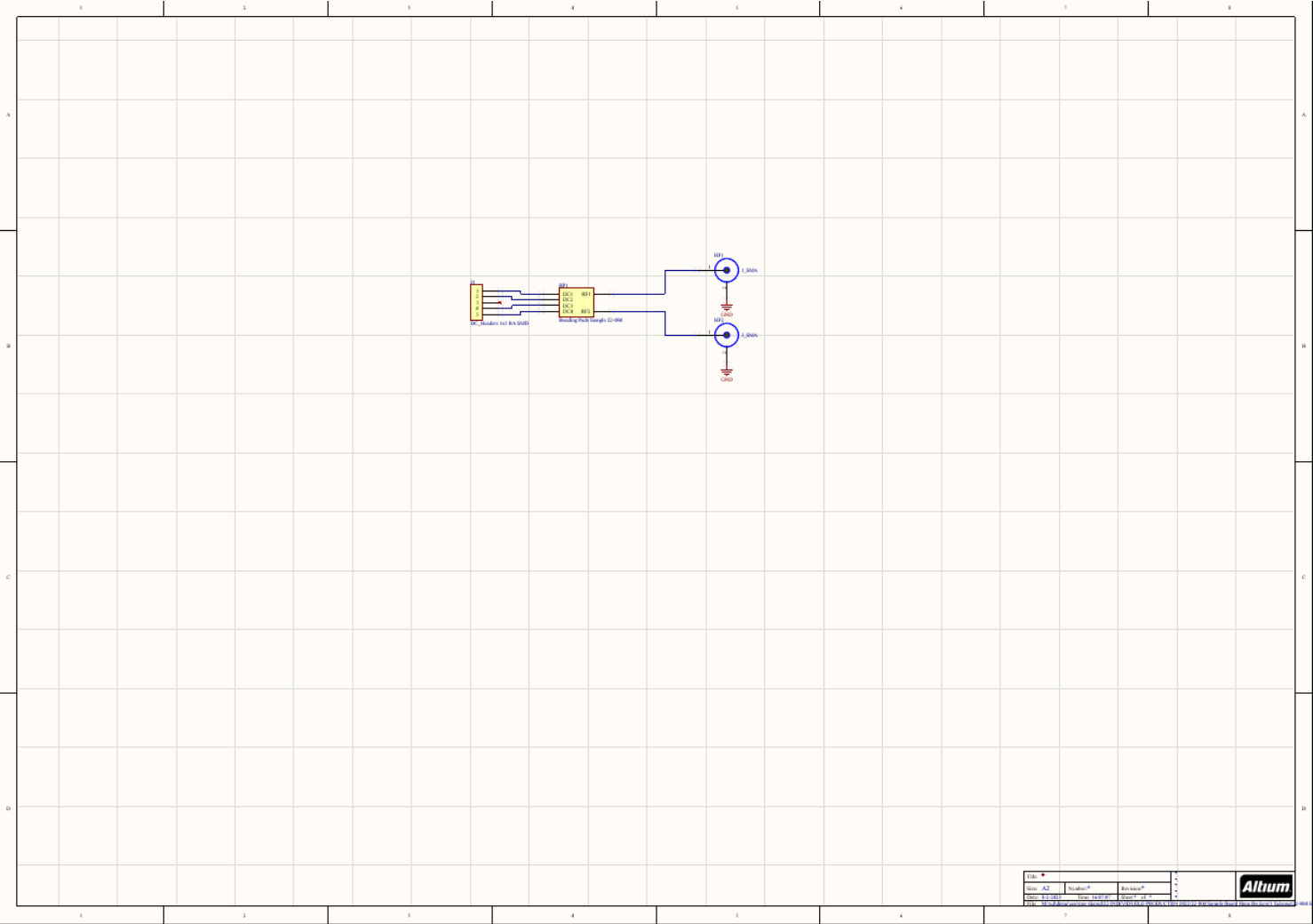
Schematic



22-004

Sample Board Hans Beukers

Size (L x W x t) (mm)	32 x 22.75 x 0.5
Dielectric Material	Isola I-Tera MT40
Z ₀ (Design)	50Ω tapered to 100Ω
Layers	2
Copper Finish	Ni / Au
RF Signals (Input)	2
RF Signals (Read-out)	0
DC Signals	4
Connector Type (RF)	SMA
Connector Type (DC)	4 Pins 2.54mm Header



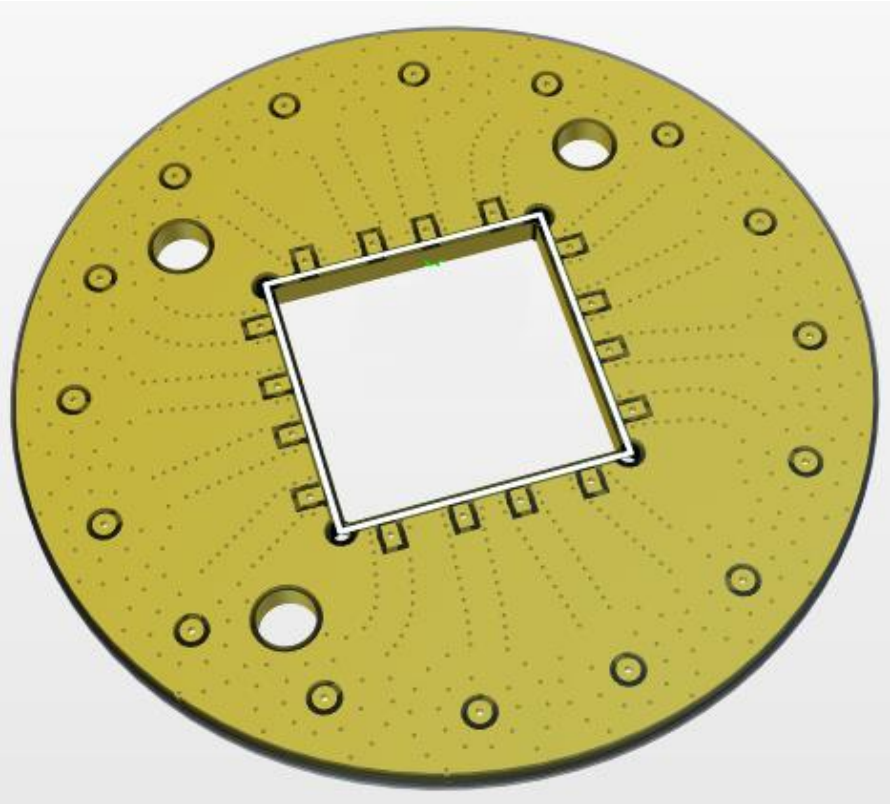
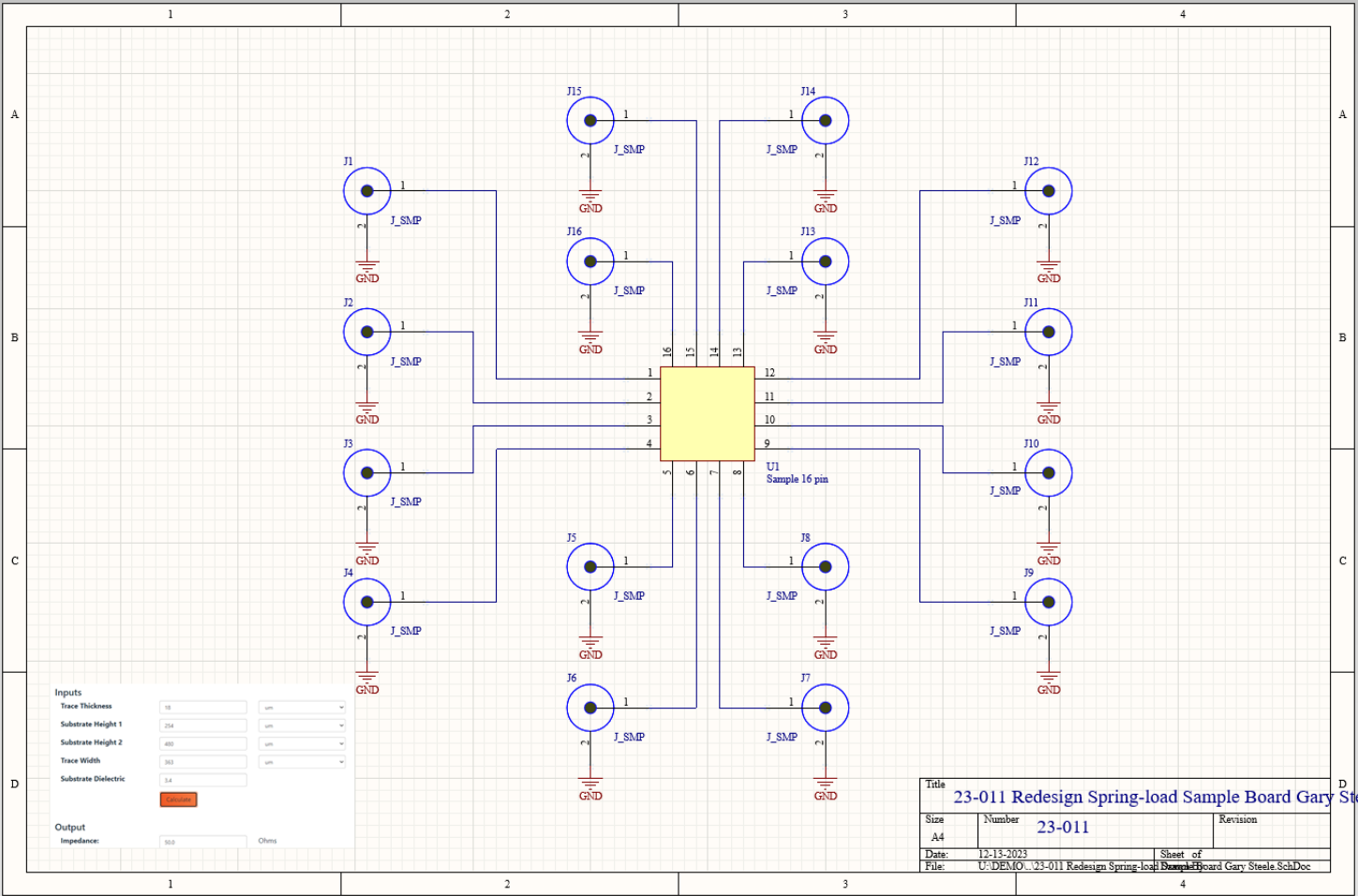
[Schematic](#)

22-019

Spring-load Sample Board

Size (L x W x t) (mm)	31 x 31 x 1.06
Dielectric Material	RO4350B / RO4450F
Z ₀ (Design)	50Ω
Layers	4
Copper Finish	Au (Soft)
RF Signals (Input)	16
RF Signals (Read-out)	0
DC Signals	0
Connector Type (RF)	Spring-load Contact
Connector Type (DC)	-

[Schematic](#)

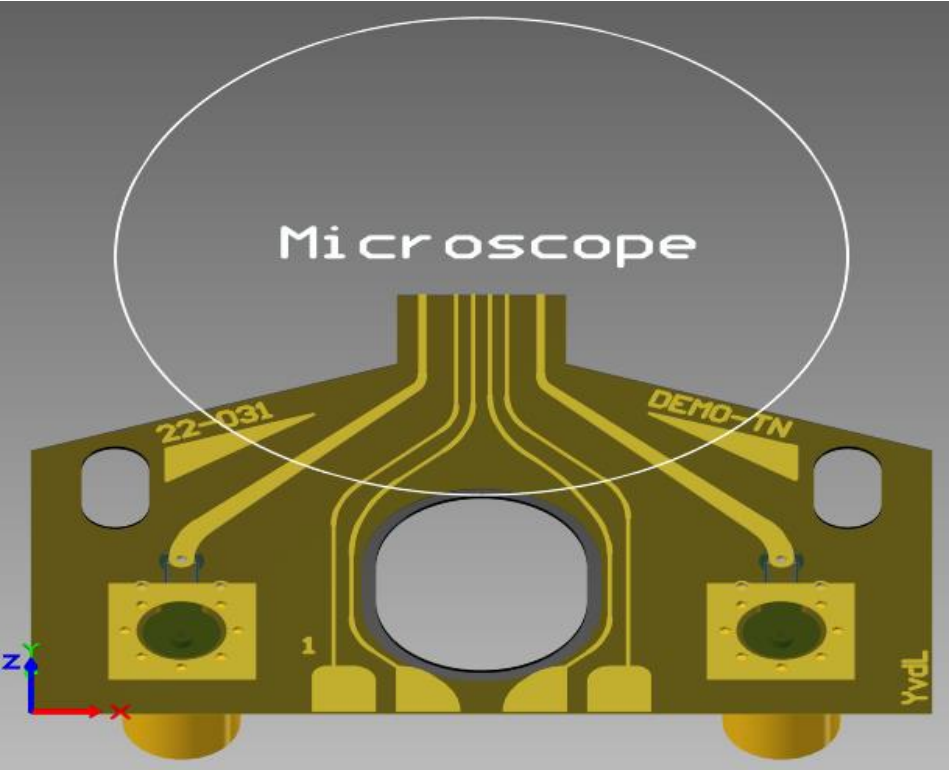
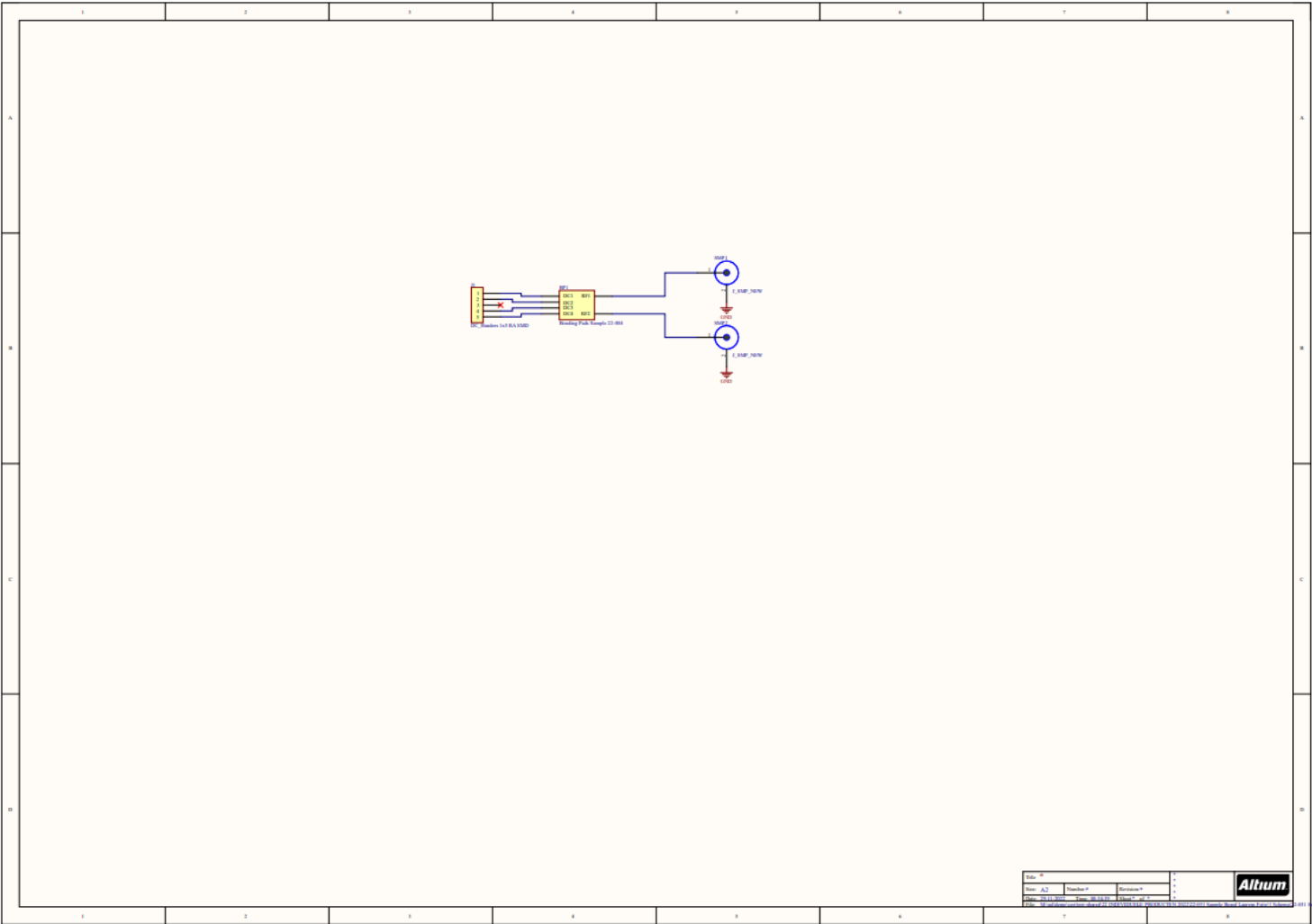


22-031

Sample Board Laurens Feije

Size (L x W x t) (mm)	32 x 22.75 x 0.5
Dielectric Material	Isola I-Tera MT40
Zo (Design)	50Ω tapered to 100Ω
Layers	2
Copper Finish	Ni / Au
RF Signals (Input)	2
RF Signals (Read-out)	0
DC Signals	4
Connector Type (RF)	SMP
Connector Type (DC)	4 Pins 2.54mm Header

[Schematic](#)

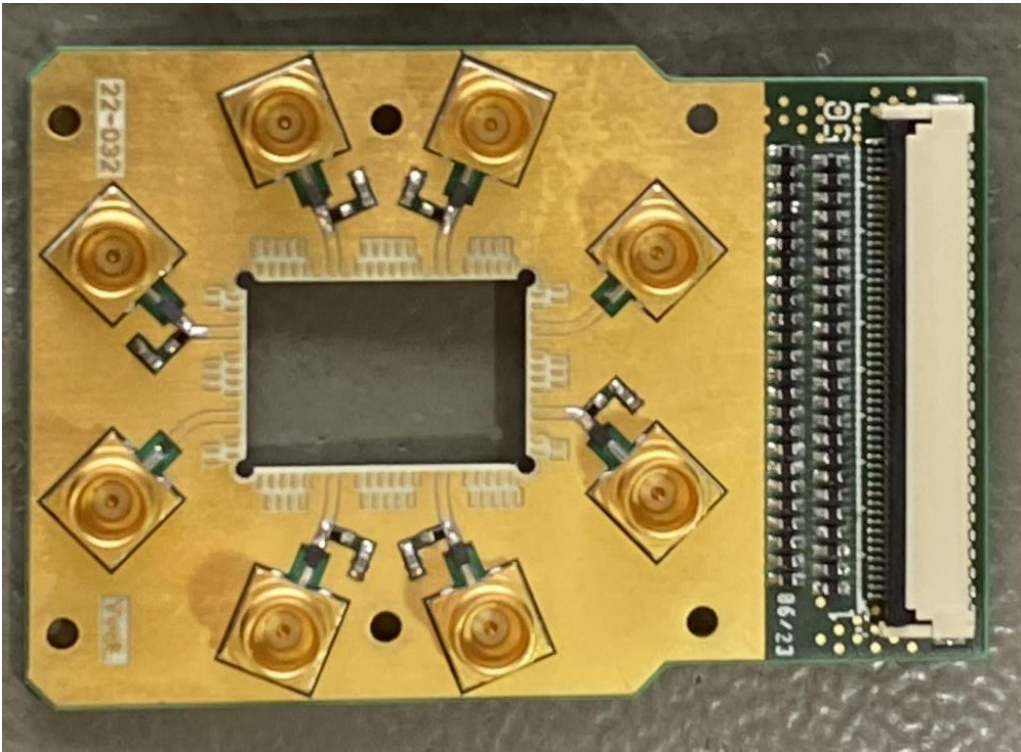
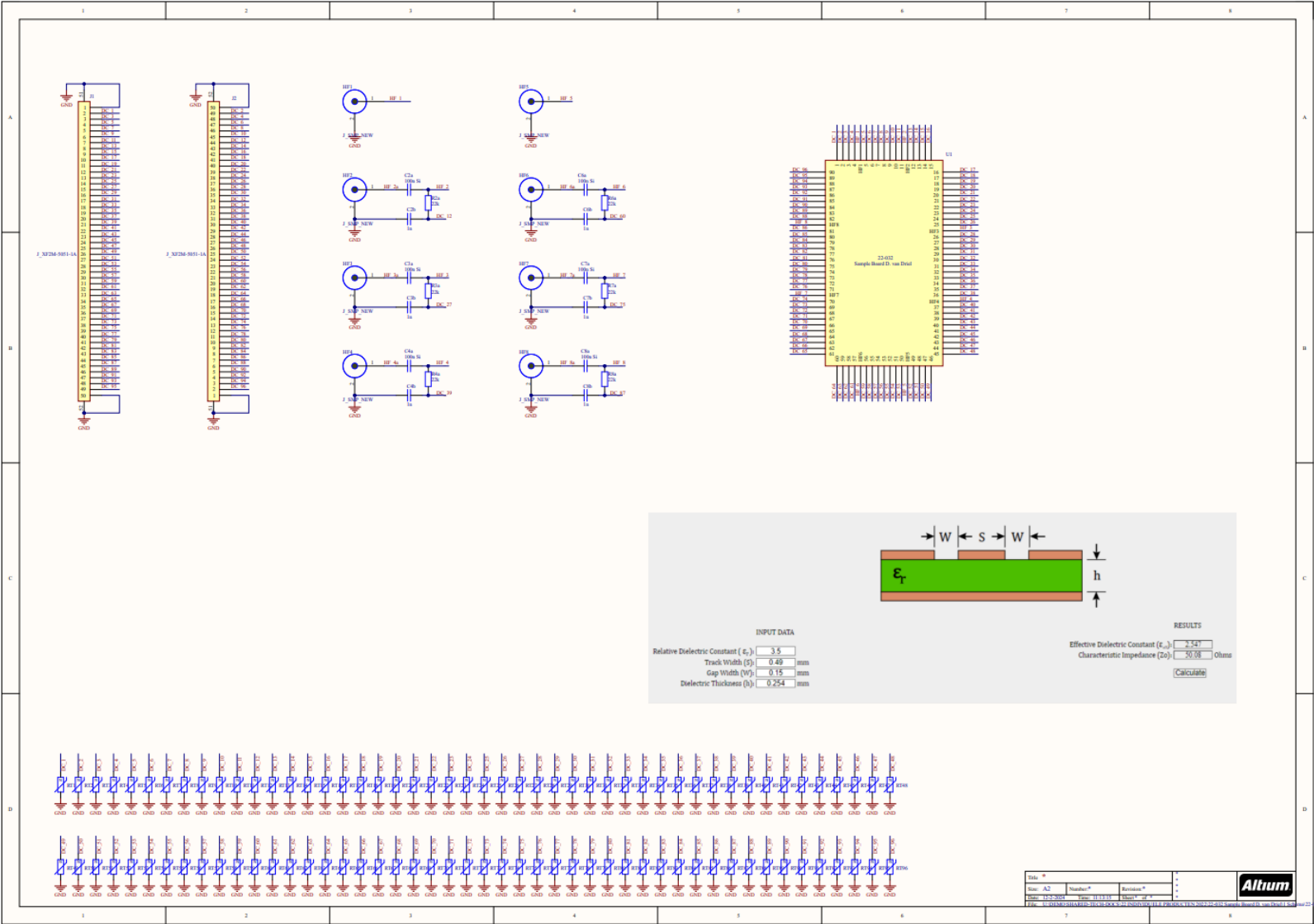


22-032

Sample Board D. van Driel

Size (L x W x t) (mm)	52 x 35 x 1.5
Dielectric Material	RO4350B / RO4450F
Zo (Design)	50Ω
Layers	6
Copper Finish	Ni / Au
RF Signals (Input)	6 (with Bias-tees)
RF Signals (Read-out)	2
DC Signals	96
Connector Type (RF)	SMP
Connector Type (DC)	FFC50 RA

Schematic

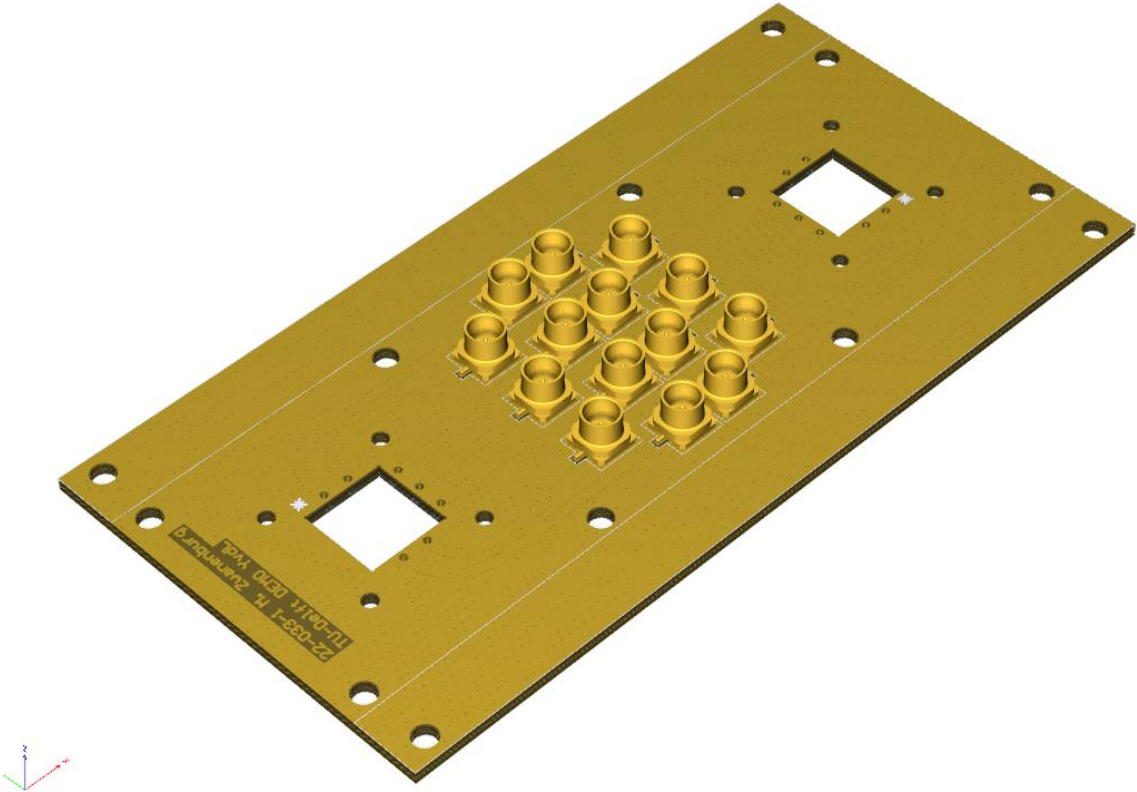
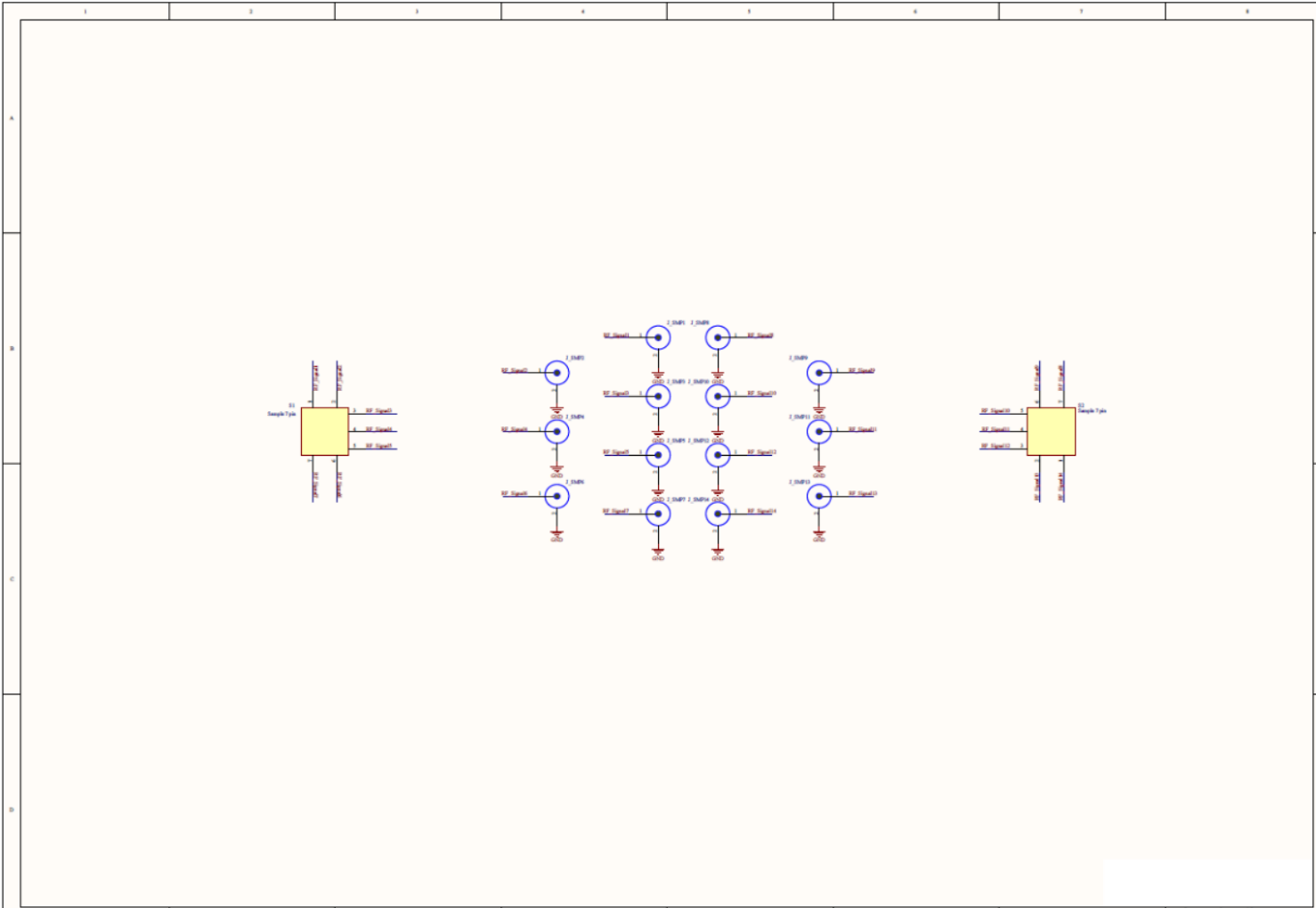


22-033-1

Sample Boards Martijn Zwanenburg

Size (L x W x t) (mm)	100 x 50 x 1.6
Dielectric Material	RO3010 / RO4450F
Z ₀ (Design)	50Ω
Layers	4
Copper Finish	Ni / Au
RF Signals (Input)	14
RF Signals (Read-out)	0
DC Signals	0
Connector Type (RF)	SMP
Connector Type (DC)	-

Schematic

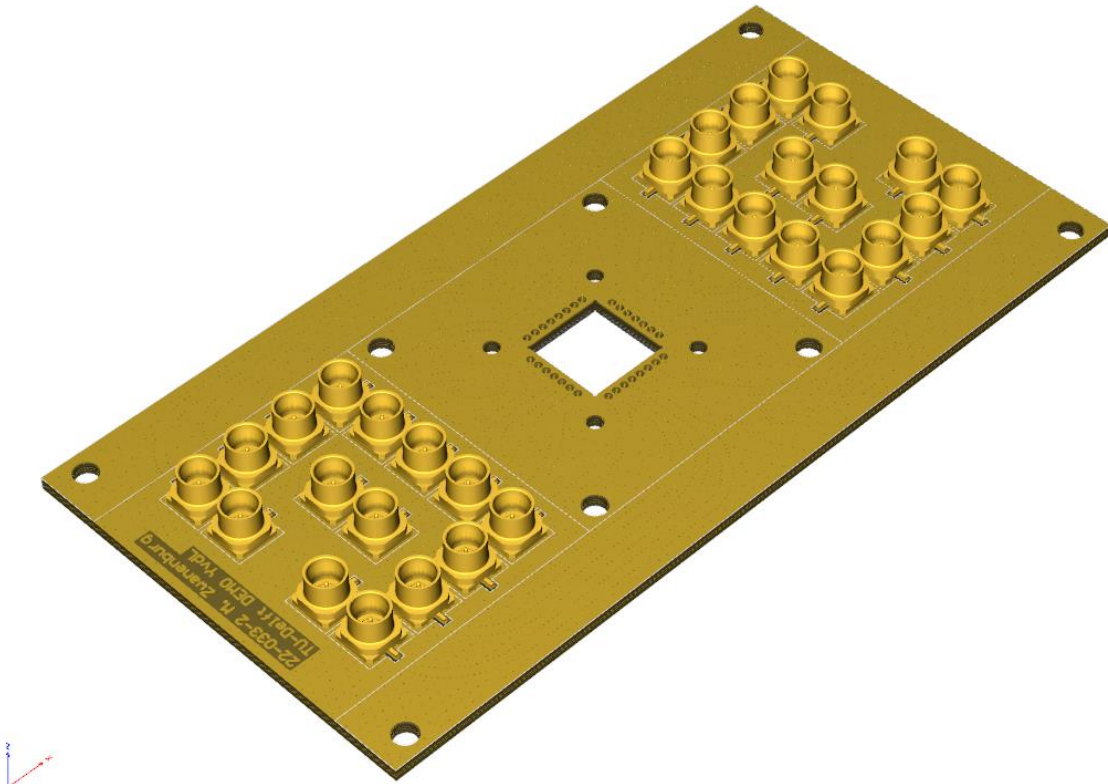
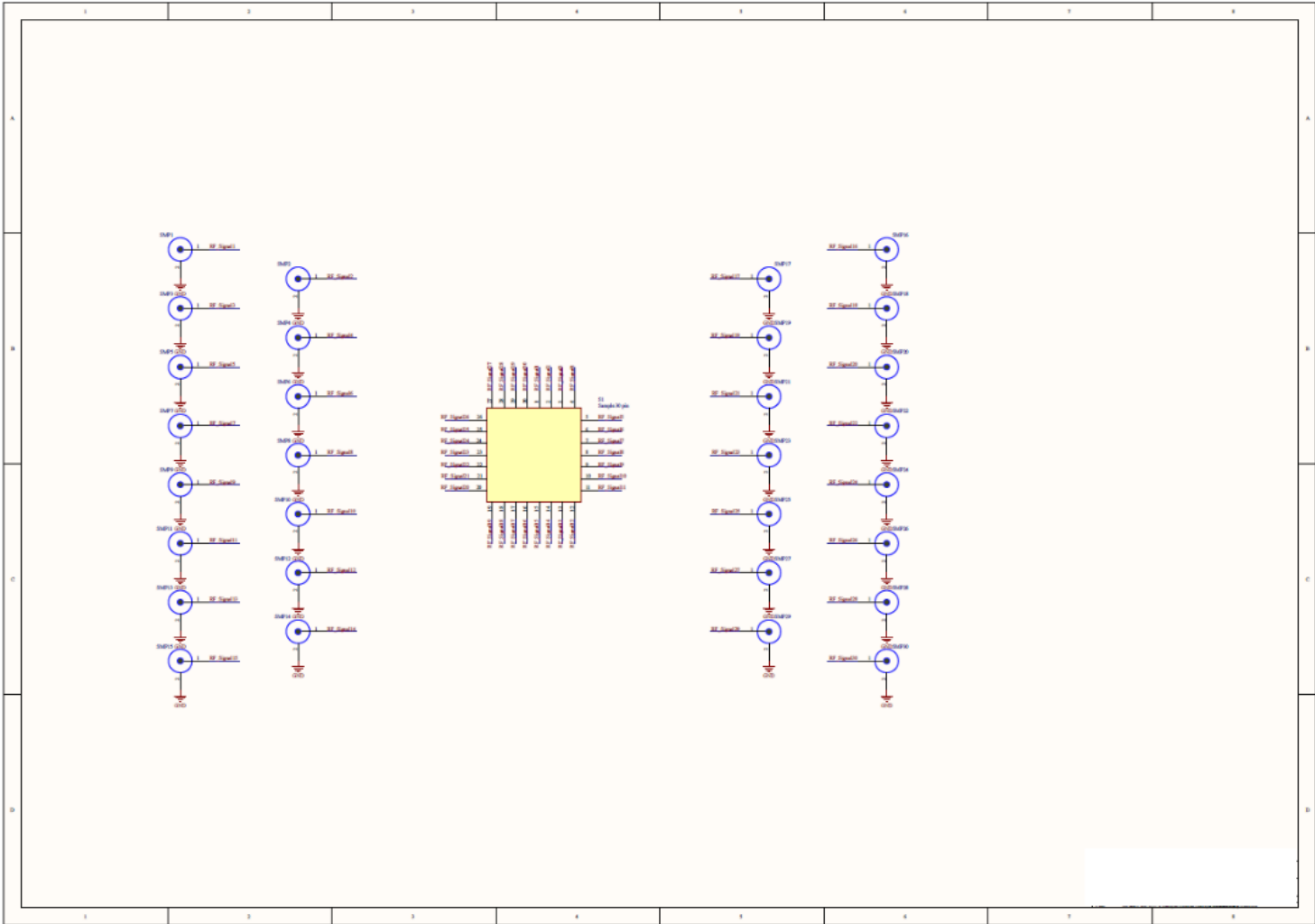


22-033-2

Sample Boards Martijn Zwanenburg

Size (L x W x t) (mm)	100 x 50 x 1.6
Dielectric Material	RO3010 / RO4450F
Z ₀ (Design)	50Ω
Layers	4
Copper Finish	Ni / Au
RF Signals (Input)	30
RF Signals (Read-out)	0
DC Signals	0
Connector Type (RF)	SMP
Connector Type (DC)	-

Schematic



Filter & Interface Boards

Filter Boards

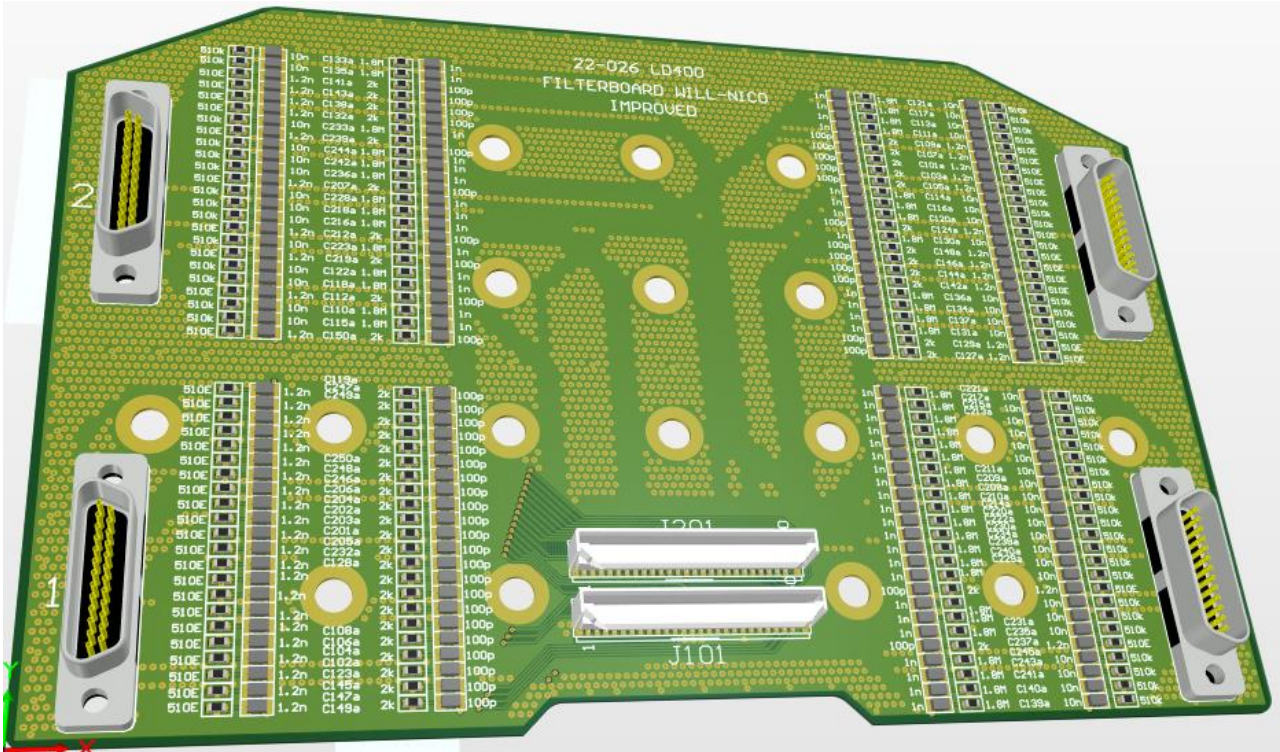
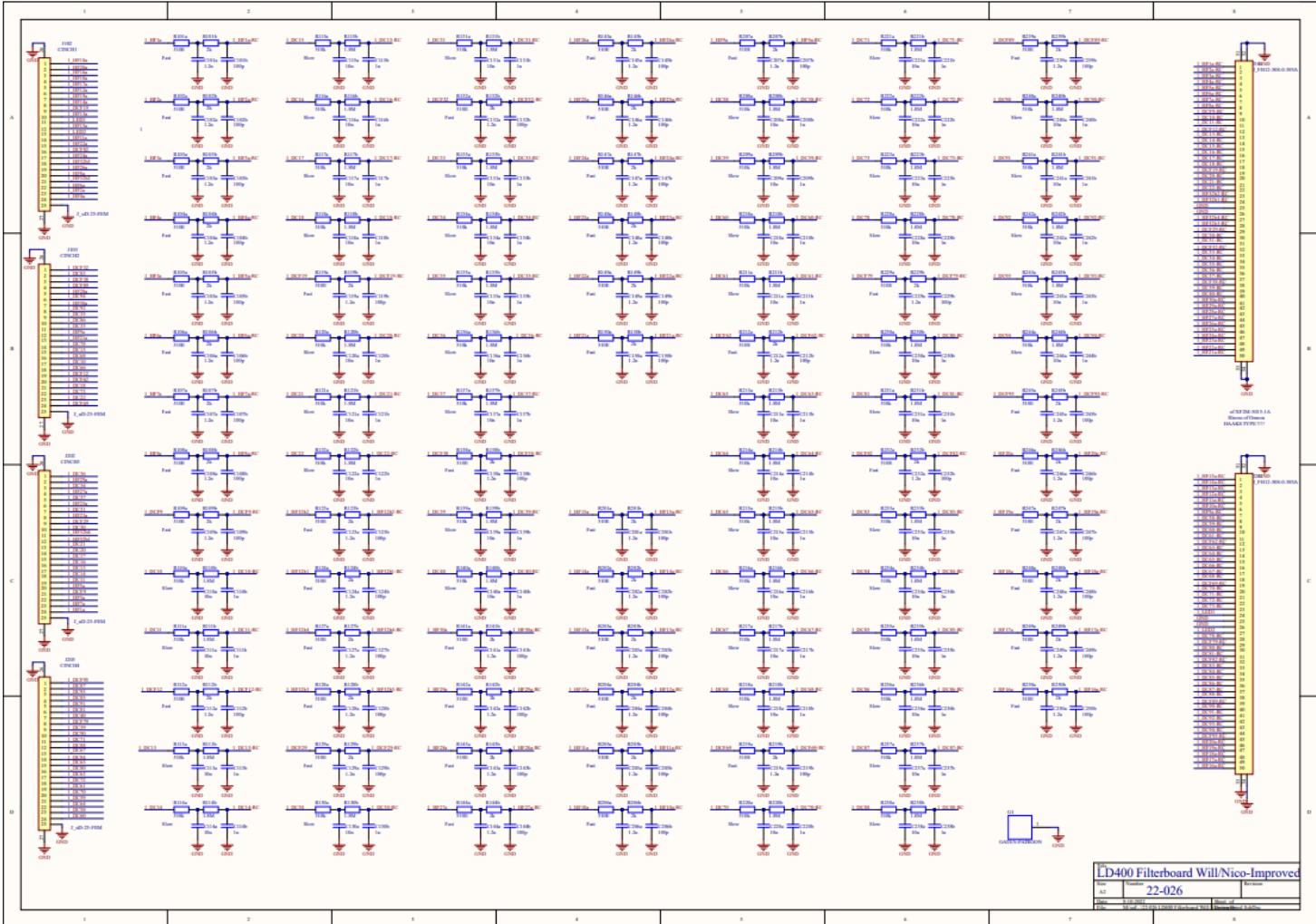
- 22-026 LD400 Filterboard Will-Nico Improved

Interface Boards

- 22-001 FFC50 to FFC50 Constantan
- 22-020 Power Splitter for Multichannel Diplexer
- 22-025 FFC50 to FFC50 Swap
- 22-030 Expanded FFC Cryo Mux
- 22-035 FFC50 to FFC50 Swap Maxim

LD400 Filterboard Will-Nico Improved

Board Type	RC Filter 100 lines
Size (L x W x t) (mm)	144 x 96 x 1.6
Material	FR4
Layers	4
Copper Finish	Ni / Au
Connector Type	FFC50 Straight Micro-D Female



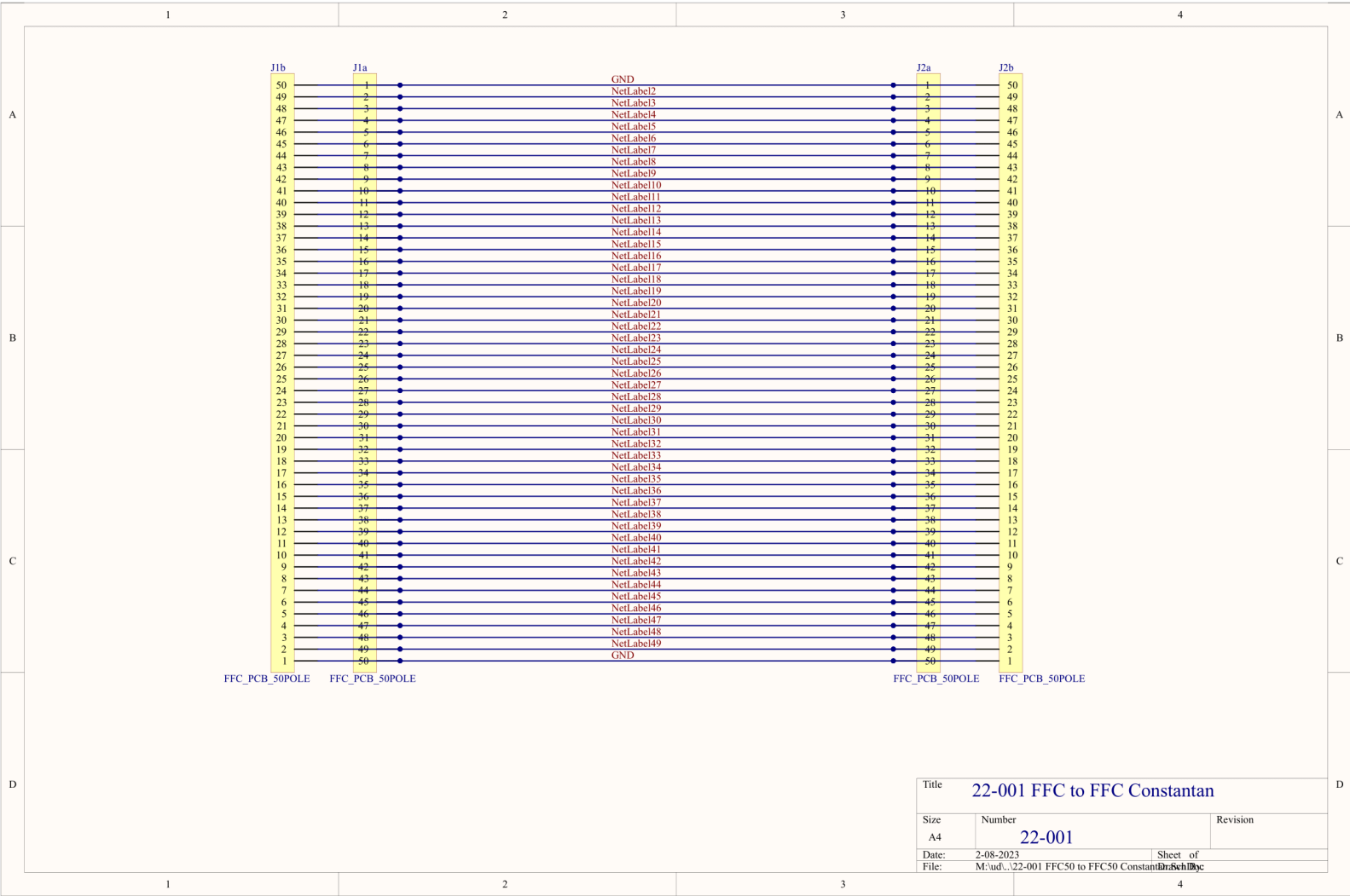
Schematic

22-001

FFC50 to FFC50

Constantan

Board Type	Flex Interface 1/50 GND
Size (L x W x t) (mm)	Type 1: 200 x 25.5 x 0.15 Type 2: 240 x 25.5 x 0.15 Type 3: 280 x 25.5 x 0.15 Type 4: 350 x 25.5 x 0.15 Type 5: 400 x 25.5 x 0.15 Type 6: 500 x 25.5 x 0.15
Material	Constantan
Layers	2
Copper Finish	Ni / Au
Connector Type	FFC50



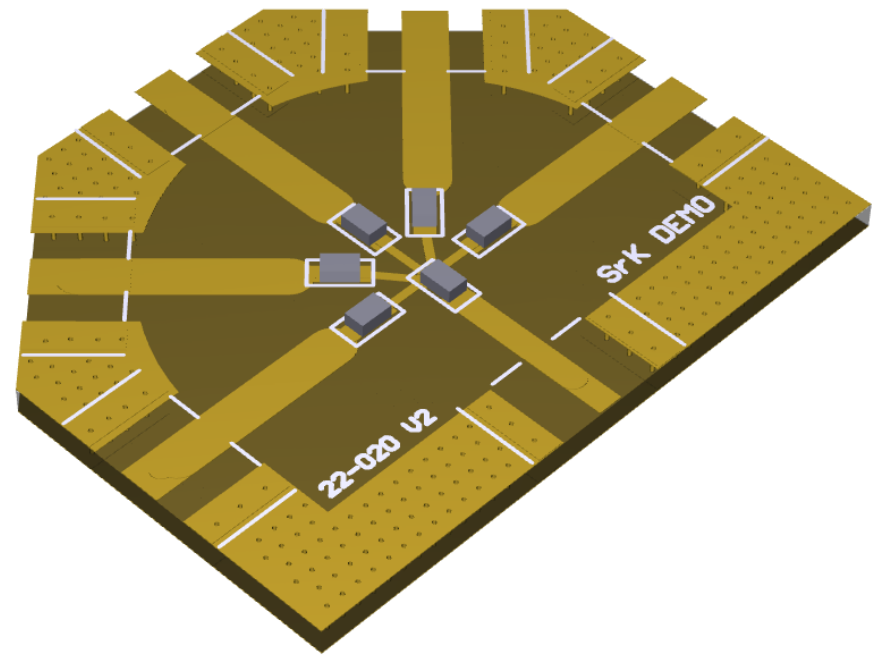
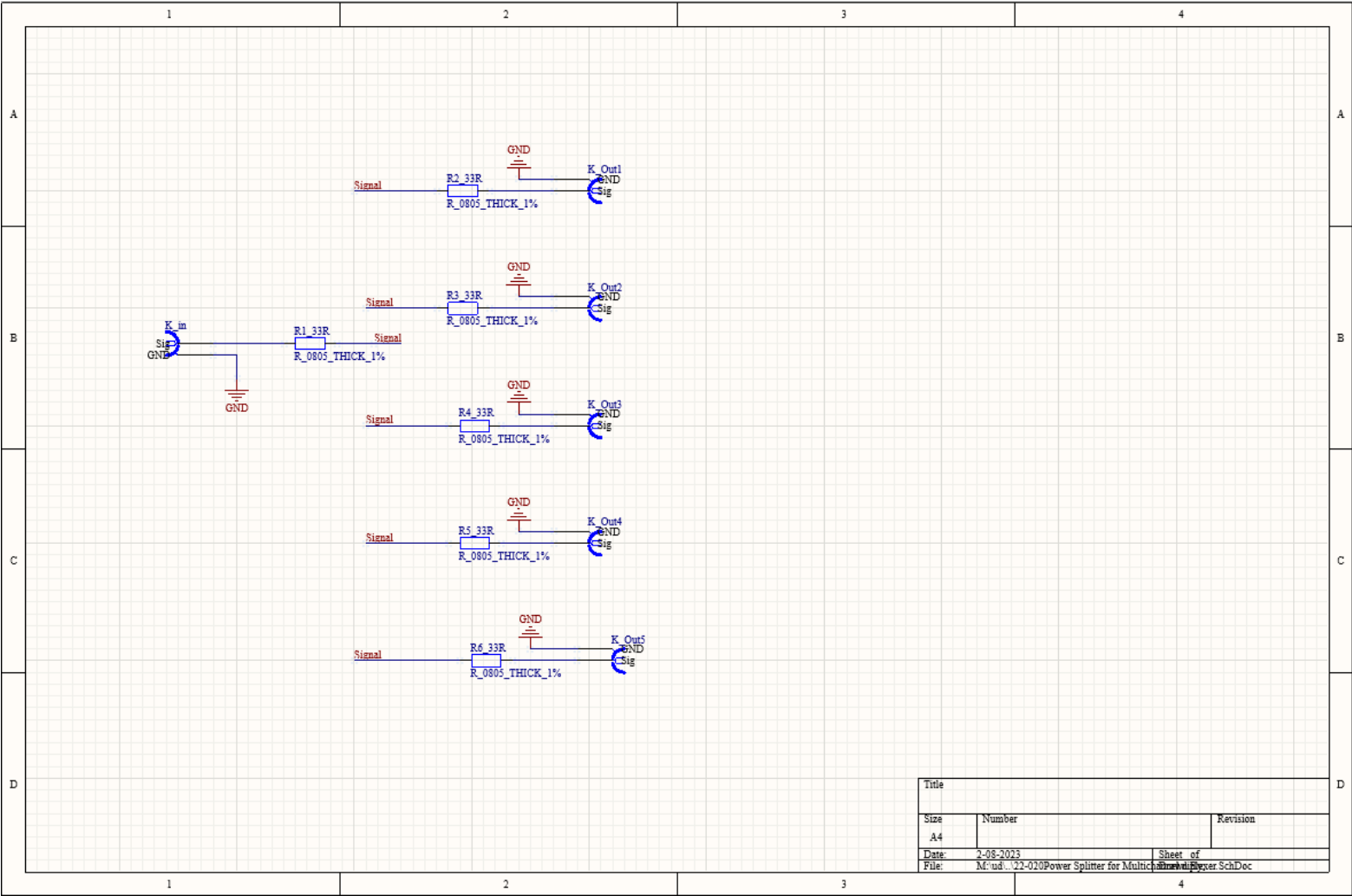
[Schematic](#)



22-020

Power Splitter for Multichannel Diplexer

Board Type	RF Splitter
Size (L x W x t) (mm)	31 x 39 x 3
Material	RO4350B
Layers	2
Copper Finish	Ni / Au
Connector Type	SMA

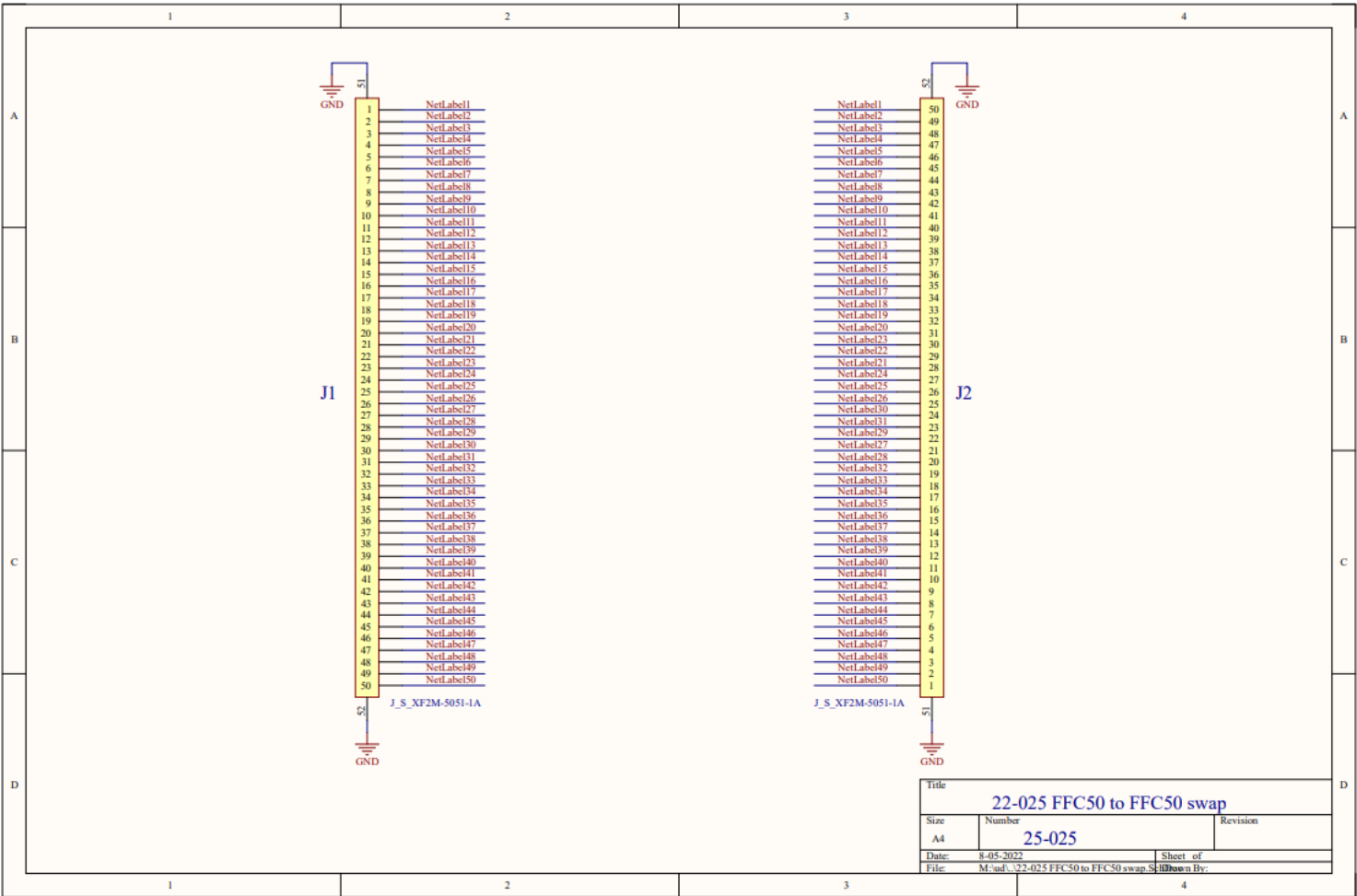


[Schematic](#)

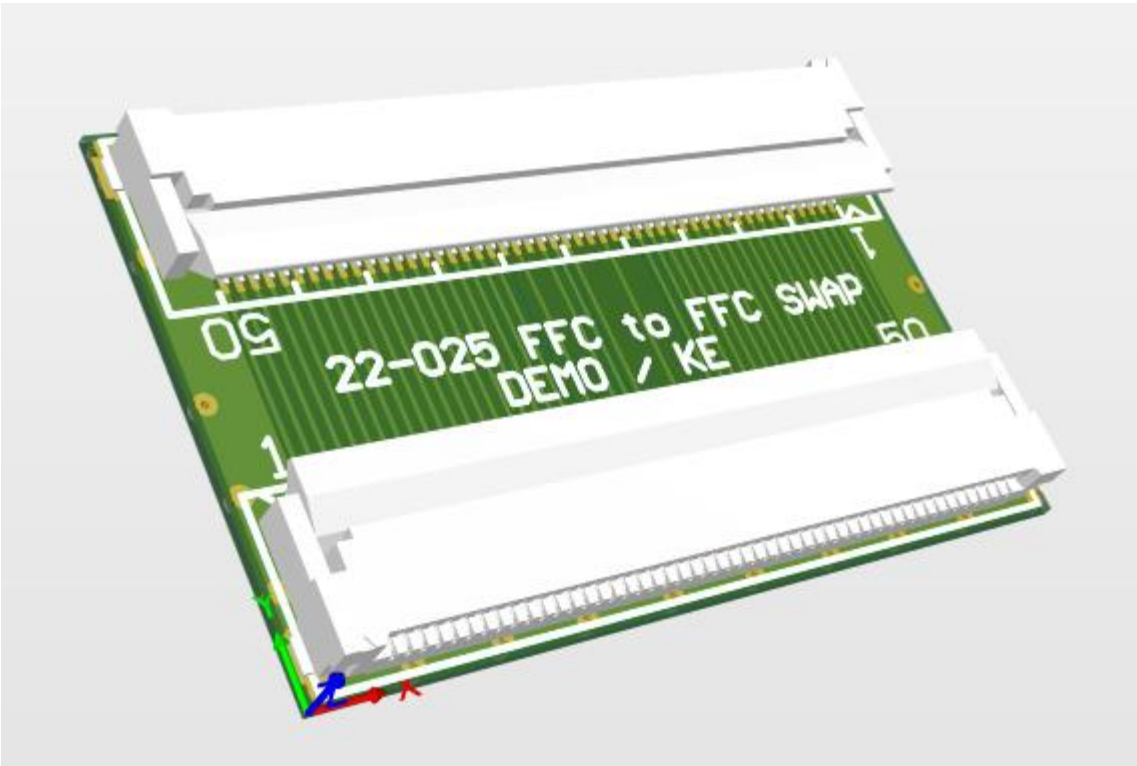
22-025

FFC50 to FFC50 Swap

Board Type	FFC Custom Swap Interface
Size (L x W x t) (mm)	19 x 29.5 x 1.6
Material	FR4
Layers	2
Copper Finish	Ni / Au
Connector Type	FFC50 RA



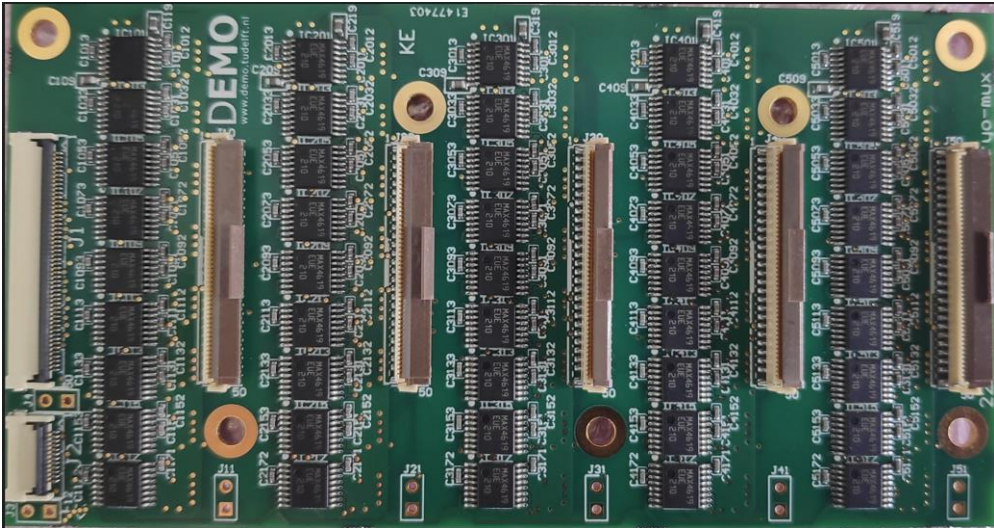
Schematic



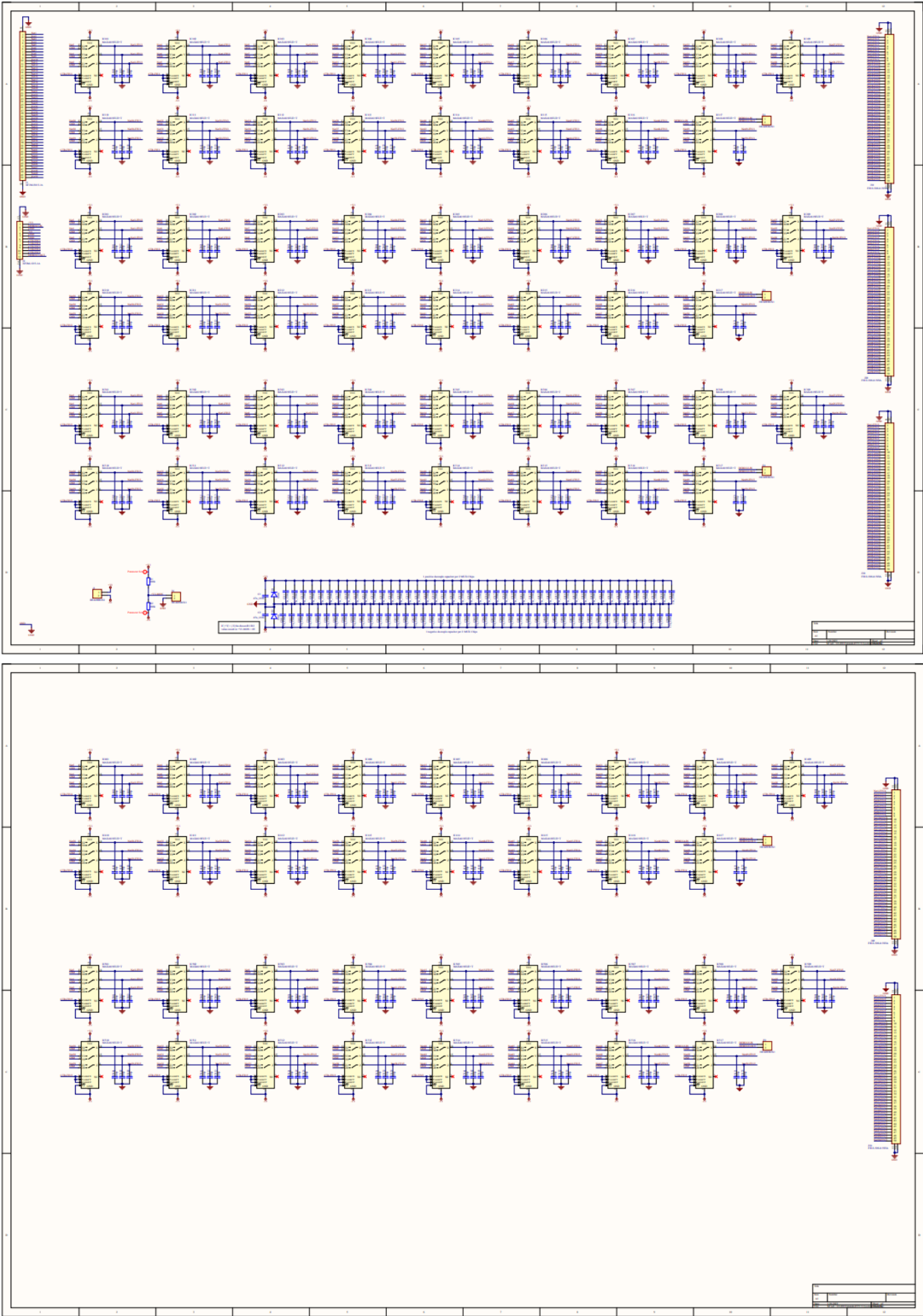
22-030

Expanded FFC Cryo Mux

Board Type	Cryo MUX Interface
Size (L x W x t) (mm)	114.25 x 60 x 1.55
Material	FR4
Layers	6
Copper Finish	Ni / Au
Connector Type	FFC50 Straight FFC50 RA FFC10 RA



Schematic

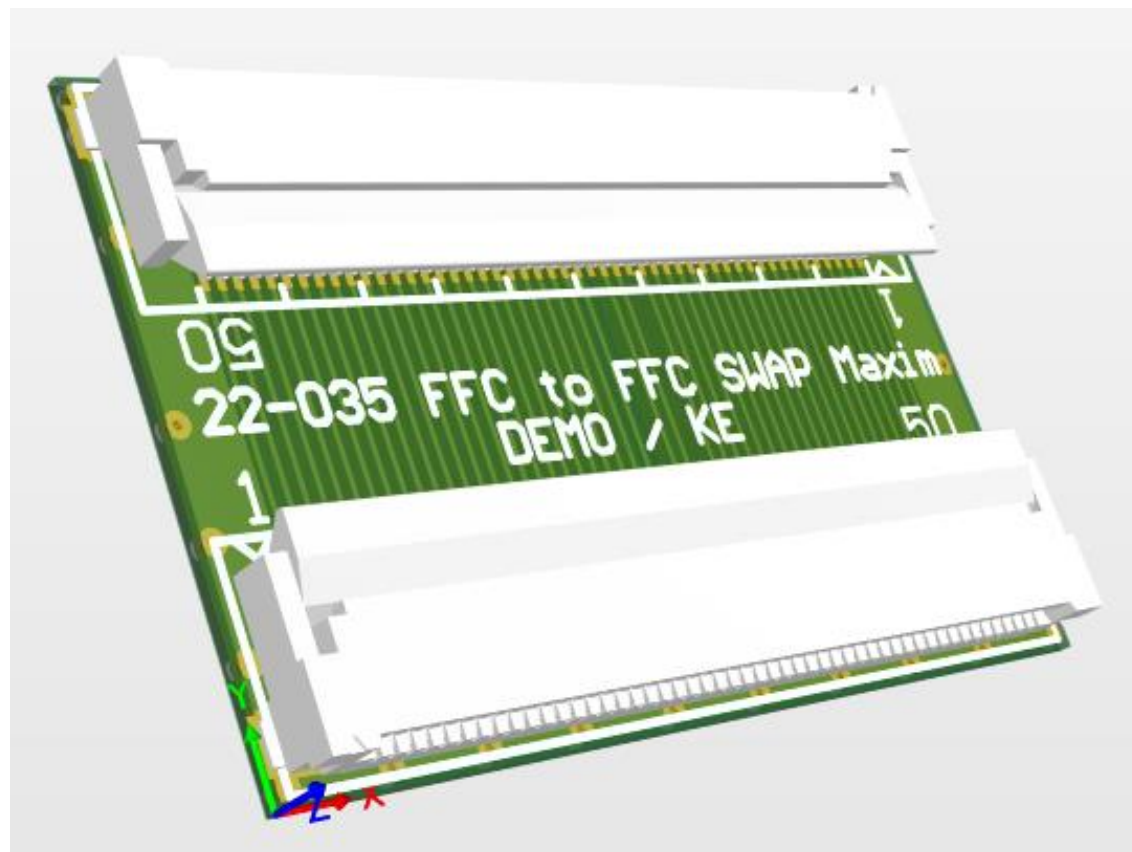
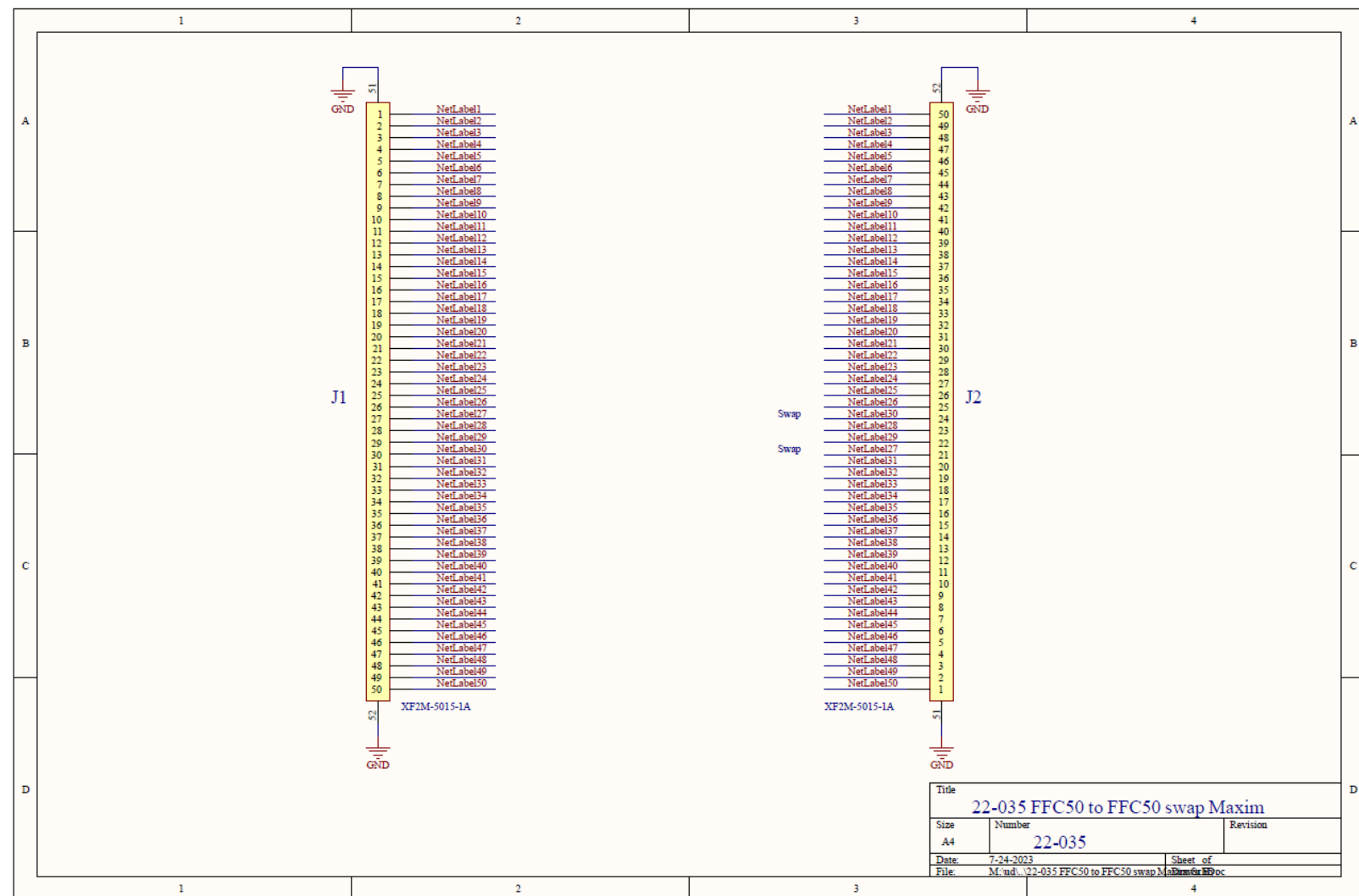


22-035

FFC50 to FFC50 Swap

Maxim

Board Type	Flex Custom Swap Interface
Size (L x W x t) (mm)	19 x 29.5 x 1.6
Material	FR4
Layers	2
Copper Finish	Ni / Au
Connector Type	FFC50 RA



Schematic