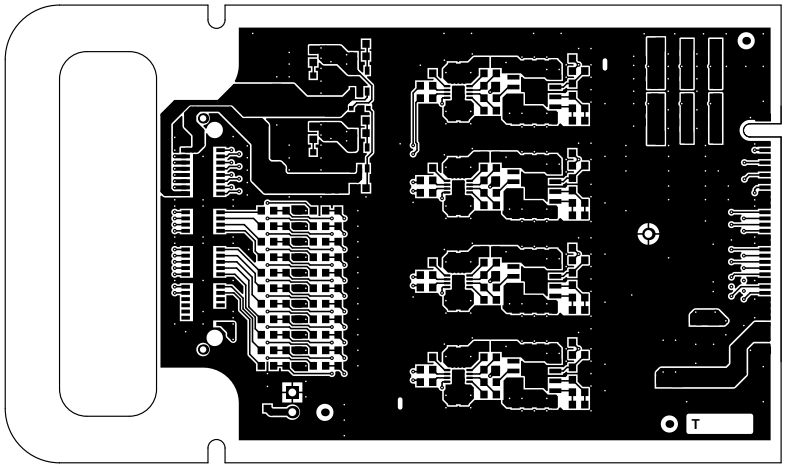
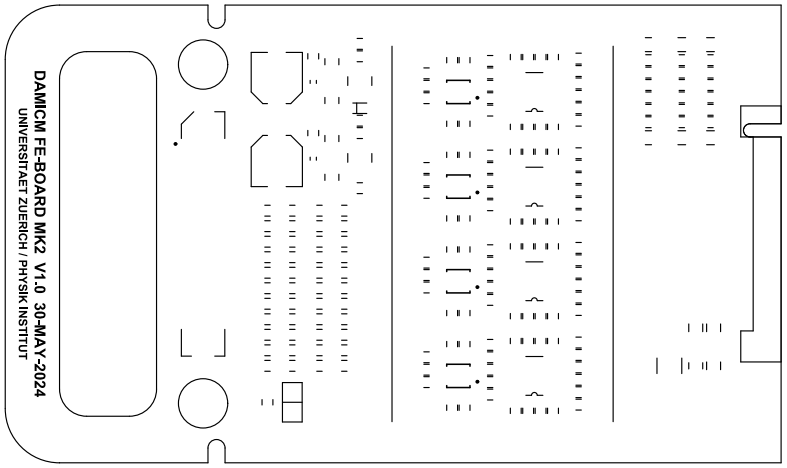


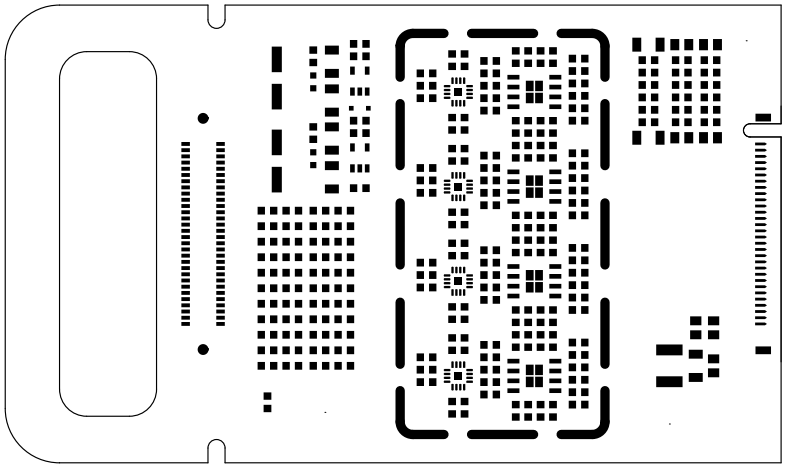
Top Layer
(Top Layer)

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: DAMIC-M FRONTEND BOARD (BASED ON ADA4817), MK2		
	BOARD NAME: FE_ADA4817_MK2	BOARD NUMBER: PCB240220	REVISION: 1.0
	CREATED: 20-FEB-2024, DANIEL FLORIN	MODIFIED: 30-MAY-2024, DANIEL FLORIN	



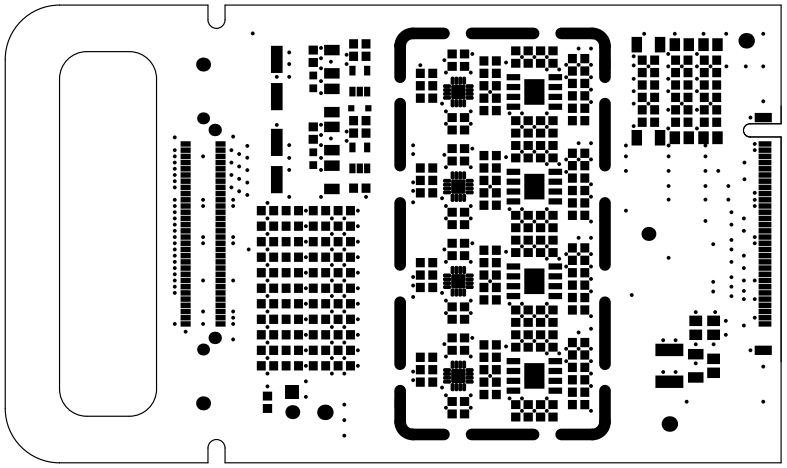
Top Overlay
(Top Silkscreen Legend, printed on Top of PCB)

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: DAMIC-M FRONTEND BOARD (BASED ON ADA4817), MK2		
	BOARD NAME: FE_ADA4817_MK2	BOARD NUMBER: PCB240220	REVISION: 1.0
	CREATED: 20-FEB-2024, DANIEL FLORIN	MODIFIED: 30-MAY-2024, DANIEL FLORIN	



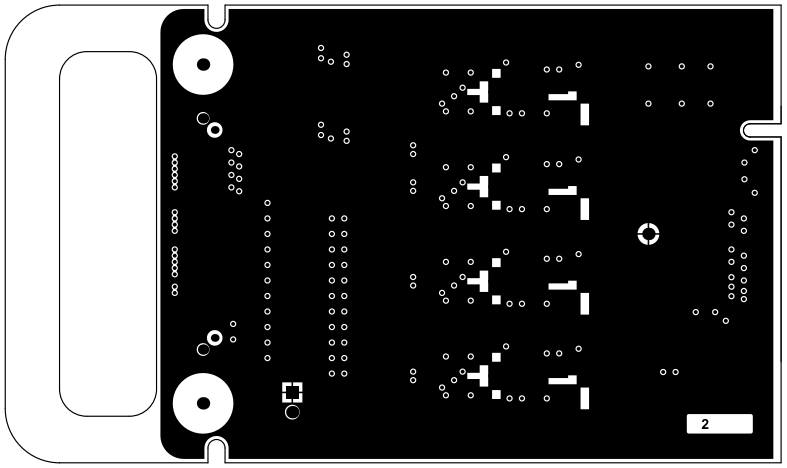
Top Paste

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: DAMIC-M FRONTEND BOARD (BASED ON ADA4817), MK2		
	BOARD NAME: FE_ADA4817_MK2	BOARD NUMBER: PCB240220	REVISION: 1.0
	CREATED: 20-FEB-2024, DANIEL FLORIN	MODIFIED: 30-MAY-2024, DANIEL FLORIN	



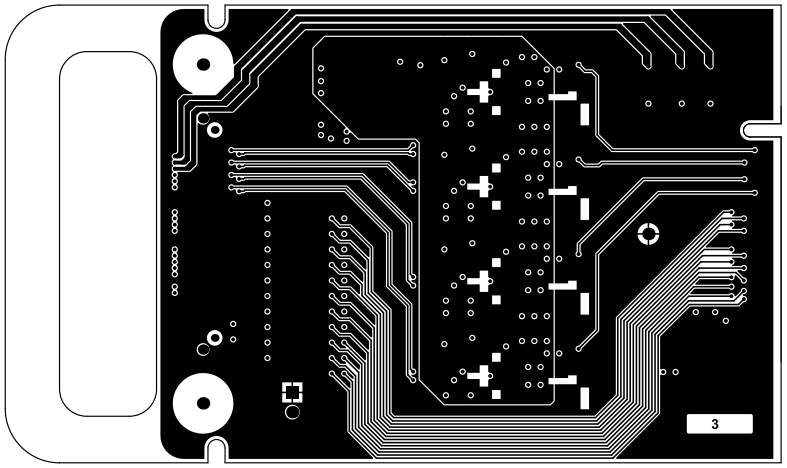
Top Solder

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: DAMIC-M FRONTEND BOARD (BASED ON ADA4817), MK2		
	BOARD NAME: FE_ADA4817_MK2	BOARD NUMBER: PCB240220	REVISION: 1.0
	CREATED: 20-FEB-2024, DANIEL FLORIN	MODIFIED: 30-MAY-2024, DANIEL FLORIN	



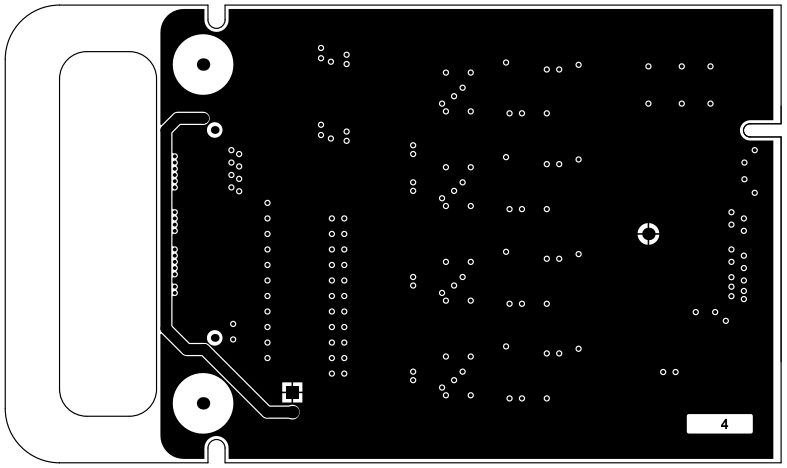
Internal Layer 1
(InternalLayer1)

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: DAMIC-M FRONTEND BOARD (BASED ON ADA4817), MK2		
	BOARD NAME: FE_ADA4817_MK2	BOARD NUMBER: PCB240220	REVISION: 1.0
	CREATED: 20-FEB-2024, DANIEL FLORIN	MODIFIED: 30-MAY-2024, DANIEL FLORIN	



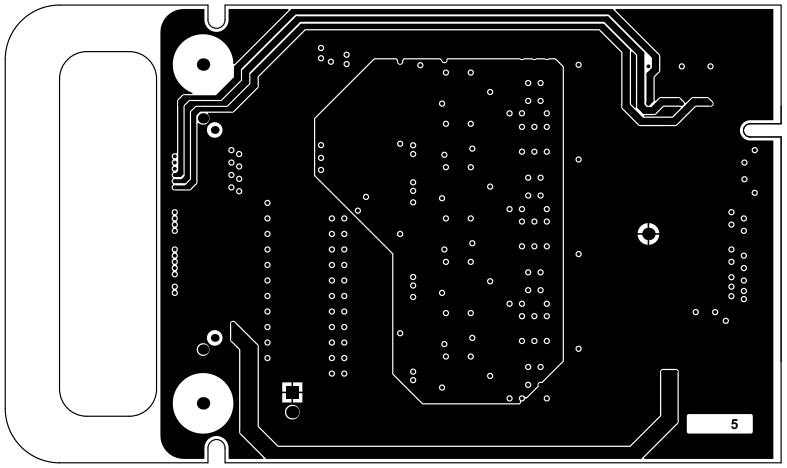
Internal Layer 2
(InternalLayer2)

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: DAMIC-M FRONTEND BOARD (BASED ON ADA4817), MK2		
	BOARD NAME: FE_ADA4817_MK2	BOARD NUMBER: PCB240220	REVISION: 1.0
	CREATED: 20-FEB-2024, DANIEL FLORIN	MODIFIED: 30-MAY-2024, DANIEL FLORIN	



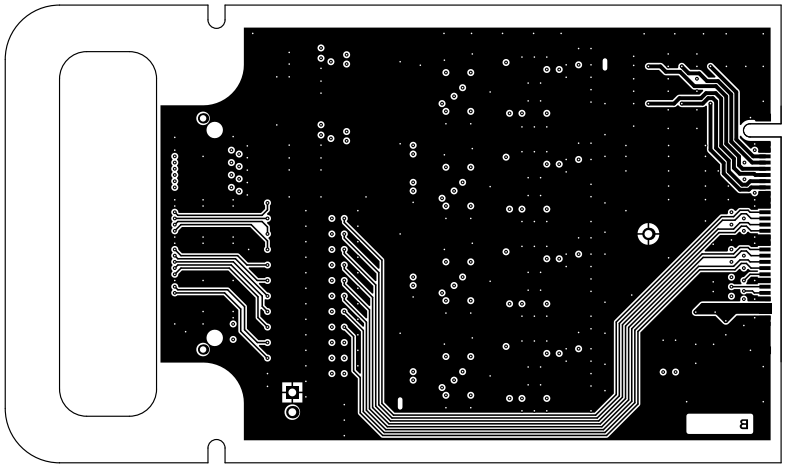
Internal Layer 3
(InternalLayer3)

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: DAMIC-M FRONTEND BOARD (BASED ON ADA4817), MK2		
	BOARD NAME: FE_ADA4817_MK2	BOARD NUMBER: PCB240220	REVISION: 1.0
	CREATED: 20-FEB-2024, DANIEL FLORIN	MODIFIED: 30-MAY-2024, DANIEL FLORIN	



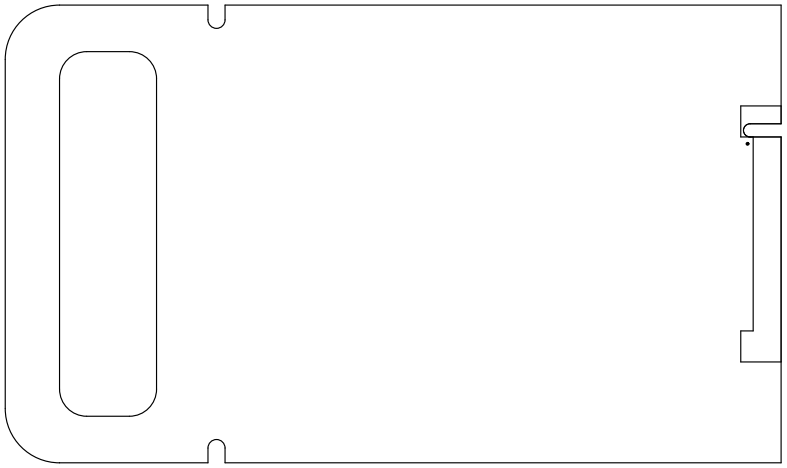
Internal Layer 4
(InternalLayer4)

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: DAMIC-M FRONTEND BOARD (BASED ON ADA4817), MK2		
	BOARD NAME: FE_ADA4817_MK2	BOARD NUMBER: PCB240220	REVISION: 1.0
	CREATED: 20-FEB-2024, DANIEL FLORIN	MODIFIED: 30-MAY-2024, DANIEL FLORIN	



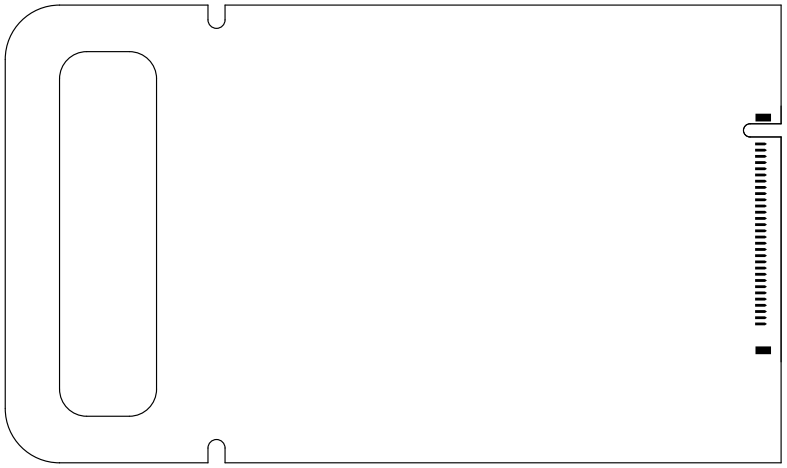
Bottom Layer
(Bottom Layer)

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: DAMIC-M FRONTEND BOARD (BASED ON ADA4817), MK2		
	BOARD NAME: FE_ADA4817_MK2	BOARD NUMBER: PCB240220	REVISION: 1.0
	CREATED: 20-FEB-2024, DANIEL FLORIN	MODIFIED: 30-MAY-2024, DANIEL FLORIN	



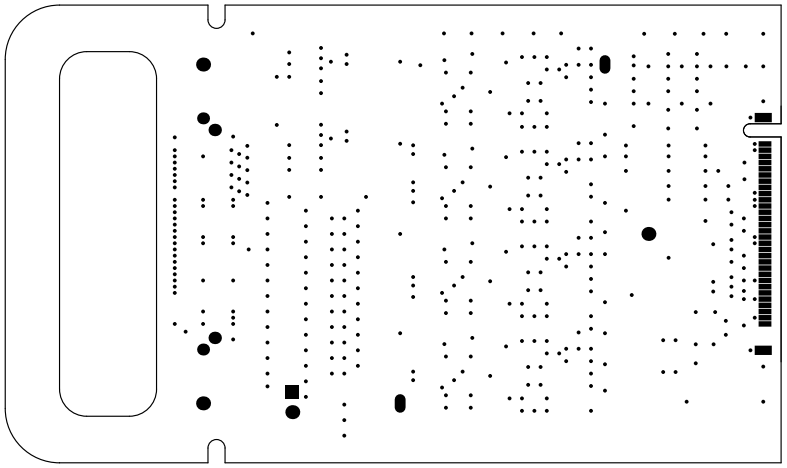
Bottom Overlay
(Bottom Silkscreen Legend, NOT printed on PCB)

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: DAMIC-M FRONTEND BOARD (BASED ON ADA4817), MK2		
	BOARD NAME: FE_ADA4817_MK2	BOARD NUMBER: PCB240220	REVISION: 1.0
	CREATED: 20-FEB-2024, DANIEL FLORIN	MODIFIED: 30-MAY-2024, DANIEL FLORIN	



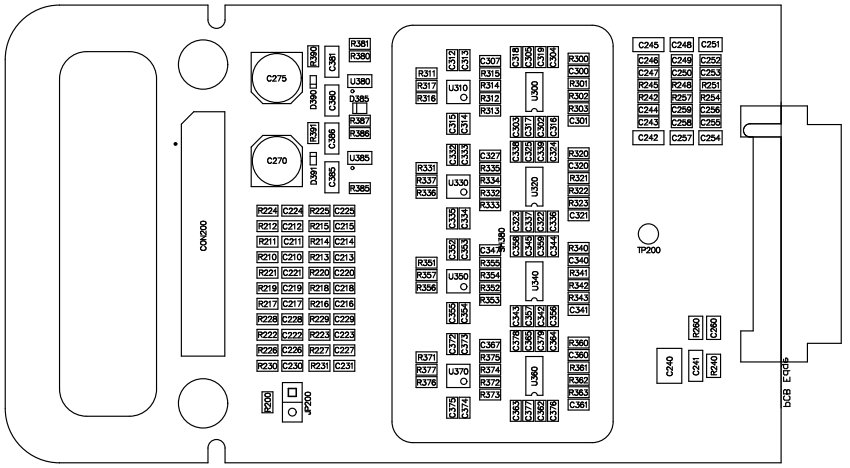
Bottom Paste

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: DAMIC-M FRONTEND BOARD (BASED ON ADA4817), MK2		
	BOARD NAME: FE_ADA4817_MK2	BOARD NUMBER: PCB240220	REVISION: 1.0
	CREATED: 20-FEB-2024, DANIEL FLORIN	MODIFIED: 30-MAY-2024, DANIEL FLORIN	



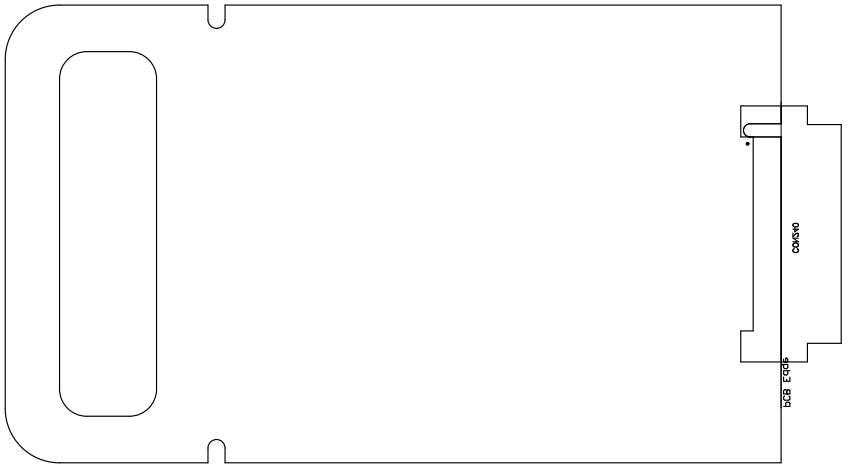
Bottom Solder

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: DAMIC-M FRONTEND BOARD (BASED ON ADA4817), MK2		
	BOARD NAME: FE_ADA4817_MK2	BOARD NUMBER: PCB240220	REVISION: 1.0
	CREATED: 20-FEB-2024, DANIEL FLORIN	MODIFIED: 30-MAY-2024, DANIEL FLORIN	



Top Assembly Drawing
(Top Assembly Drawing, NOT printed on PCB)

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: DAMIC-M FRONTEND BOARD (BASED ON ADA4817), MK2		
	BOARD NAME: FE_ADA4817_MK2	BOARD NUMBER: PCB240220	REVISION: 1.0
	CREATED: 20-FEB-2024, DANIEL FLORIN	MODIFIED: 30-MAY-2024, DANIEL FLORIN	



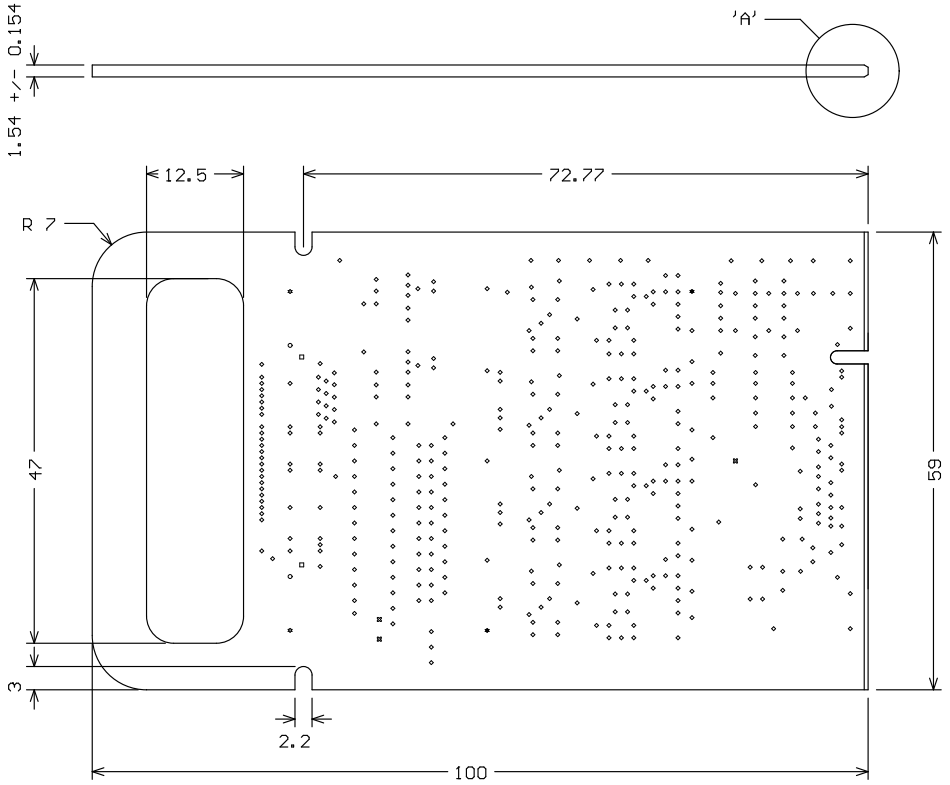
Bottom Assembly Drawing
(Bottom Assembly Drawing, NOT printed on PCB)

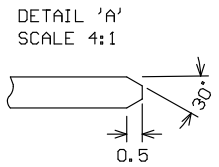
PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: DAMIC-M FRONTEND BOARD (BASED ON ADA4817), MK2		
	BOARD NAME: FE_ADA4817_MK2	BOARD NUMBER: PCB240220	REVISION: 1.0
	CREATED: 20-FEB-2024, DANIEL FLORIN	MODIFIED: 30-MAY-2024, DANIEL FLORIN	

Bottom Assembly Drawing – Mirrored
(Bottom Assembly Drawing, NOT printed on PCB)

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH–8057 ZUERICH SWITZERLAND	SYSTEM: DAMIC–M FRONTEND BOARD (BASED ON ADA4817), MK2	
	BOARD NAME: FE_ADA4817_MK2	BOARD NUMBER: PCB240220
	CREATED: 20–FEB–2024, DANIEL FLORIN	MODIFIED: 30–MAY–2024, DANIEL FLORIN

REVISION: 1.0





PCB Fabrication Drawing

CAUTION:
Overall board thickness is 1540um, +/- 10%

Top Silkscreen Legend: White
Top Soldermask: Green (40um)
Top Surface Finish: NiAu (ENIG)

Total 1540um, +/- 10%

Top Layer, Copper Weight 35um (Finished)
Prepreg FR-4, 250um (106 + 7628)
InternalLayer1, Copper Weight 35um
Core FR-4, 250um
InternalLayer2, Copper Weight 35um
Prepreg FR-4, 250um (106 + 7628)
InternalLayer3, Copper Weight 35um
Core FR-4, 250um
InternalLayer4, Copper Weight 35um
Prepreg FR-4, 250um (106 + 7628)
Bottom Layer, Copper Weight 35um (Finished)

Top Surface Finish: NiAu (ENIG)
Bottom Soldermask: Green (40um)
Bottom Silkscreen Legend: No

Layer Stack (Six Layers)

Symbol	Count	Hole Size	Hole Length	Routed Path Length	Plated	Hole Type
✡	2	23.62mil (0.600mm)	62.99mil (1.600mm)	39.37mil (1.000mm)	PTH	Slot
○	2	32.68mil (0.830mm)	–	–	PTH	Round
□	2	57.09mil (1.450mm)	–	–	NPTH	Round
☼	2	177.17mil (4.500mm)	–	–	NPTH	Round
⊠	3	39.37mil (1.000mm)	–	–	PTH	Round
◇	428	7.87mil (0.200mm)	–	–	PTH	Round
	439 Total					

Slot definitions : Routed Path Length = Calculated from tool start centre position to tool end centre position.
Hole Length = Routed Path Length + Tool Size = Slot length as defined in the PCB layout

Drill Drawing

PHYSIK INSTITUT
UNIVERSITAET ZUERICH
WINTERTHURERSTR 190
CH-8057 ZUERICH
SWITZERLAND

SYSTEM:
DAMIC-M FRONTEND BOARD (BASED ON ADA4817), MK2

BOARD NAME:	BOARD NUMBER:	REVISION:
FE_ADA4817_MK2	PCB240220	1.0

CREATED:	MODIFIED:
20-FEB-2024, DANIEL FLORIN	30-MAY-2024, DANIEL FLORIN