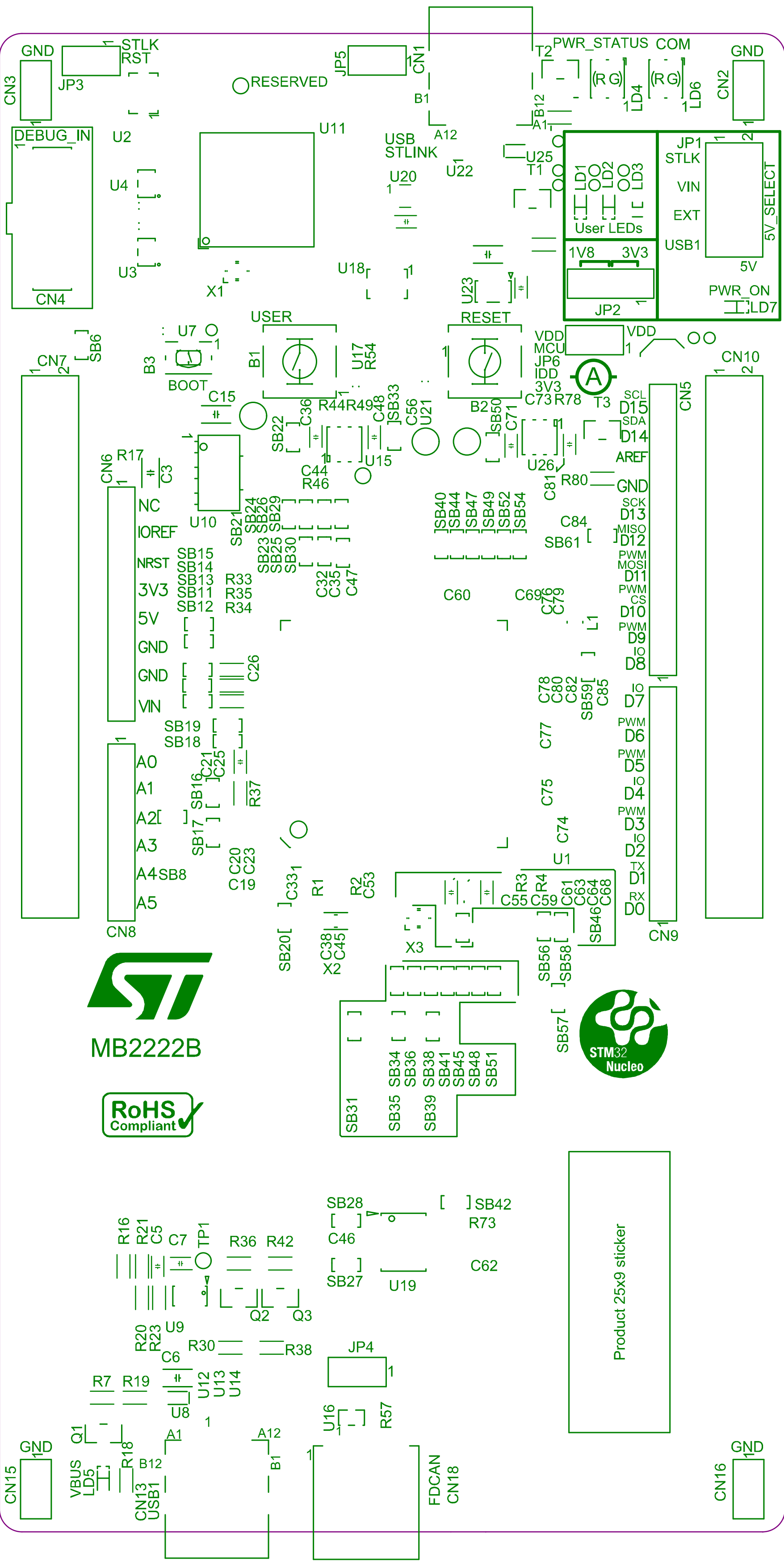
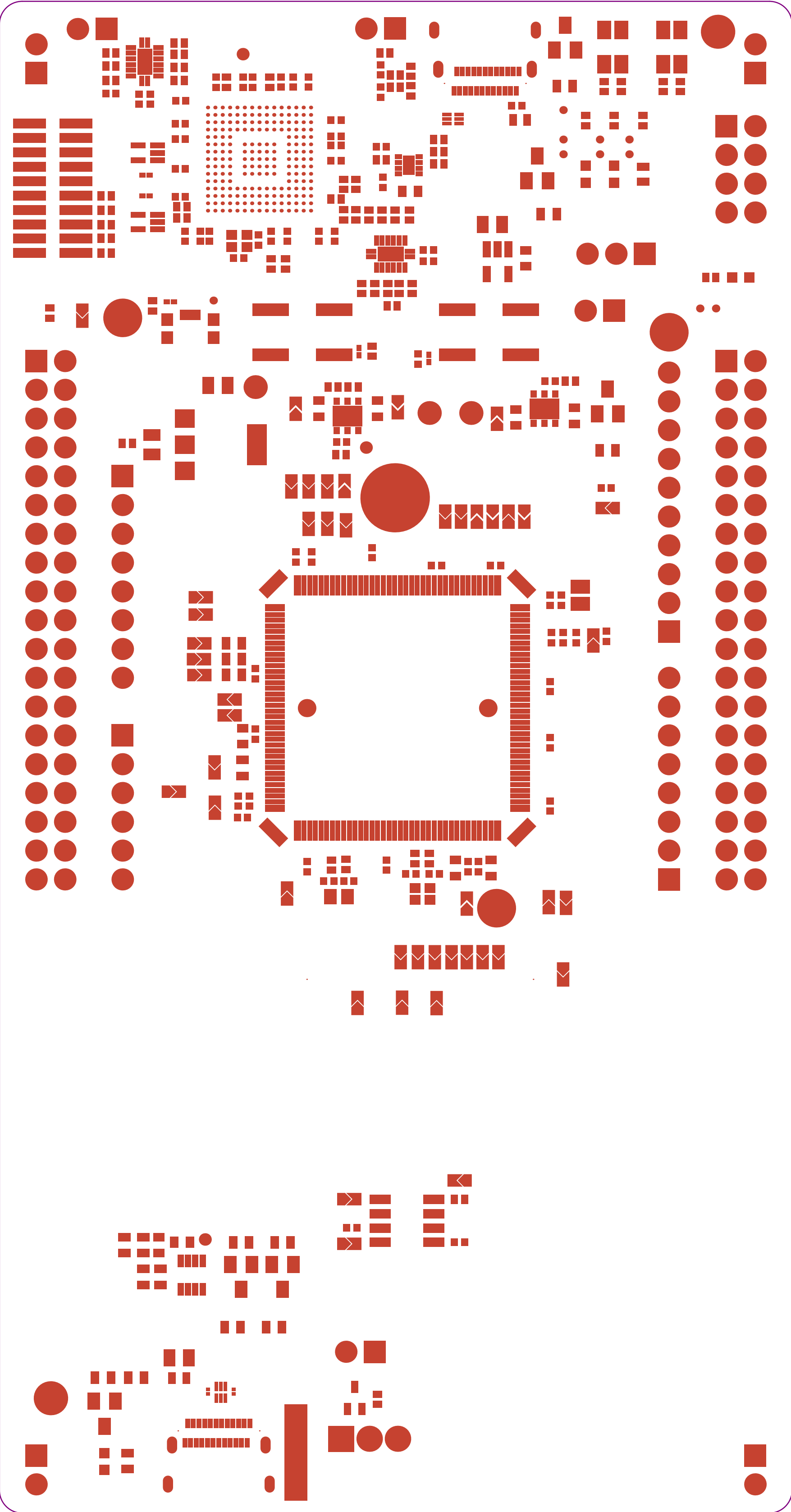
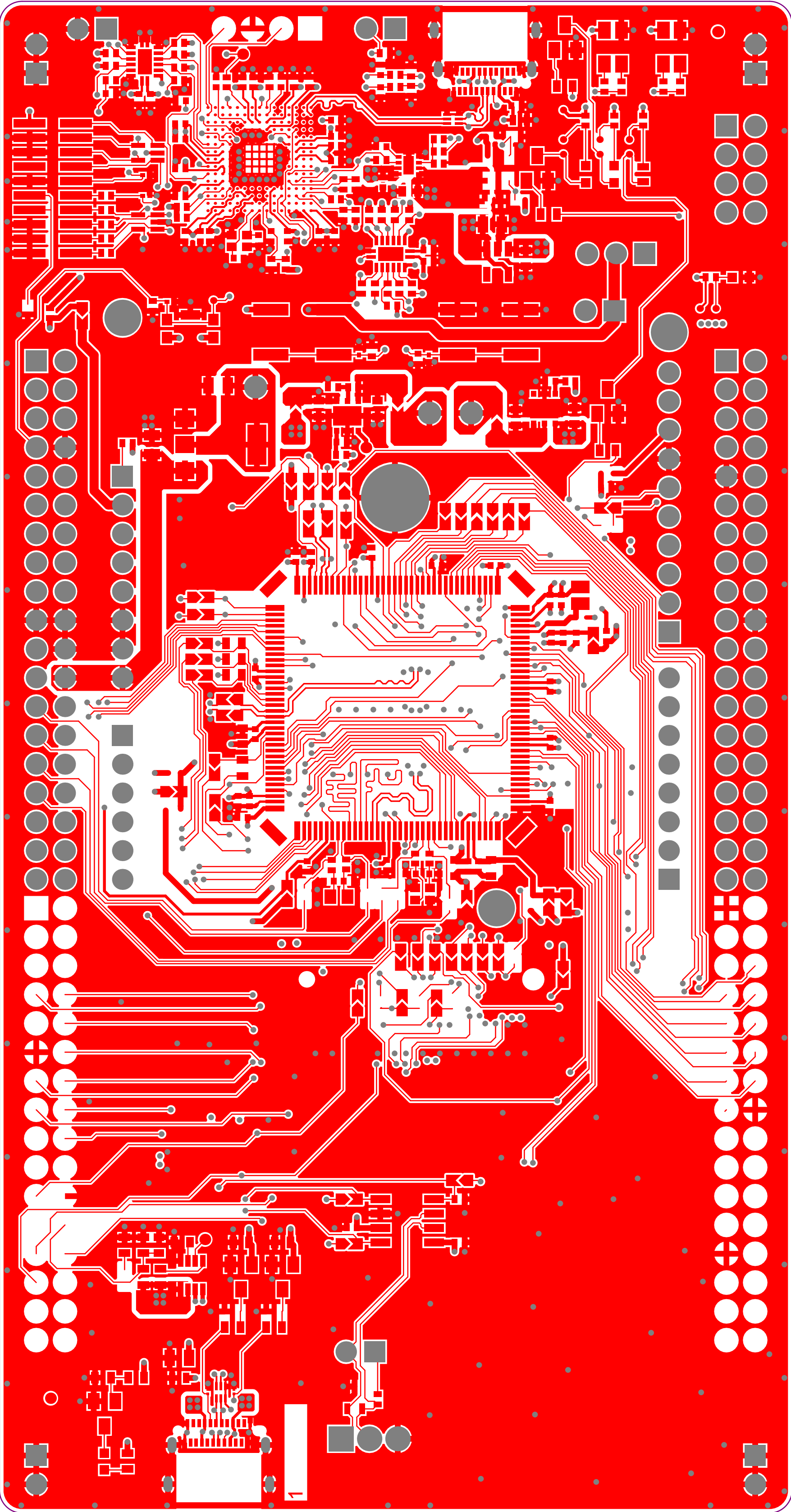




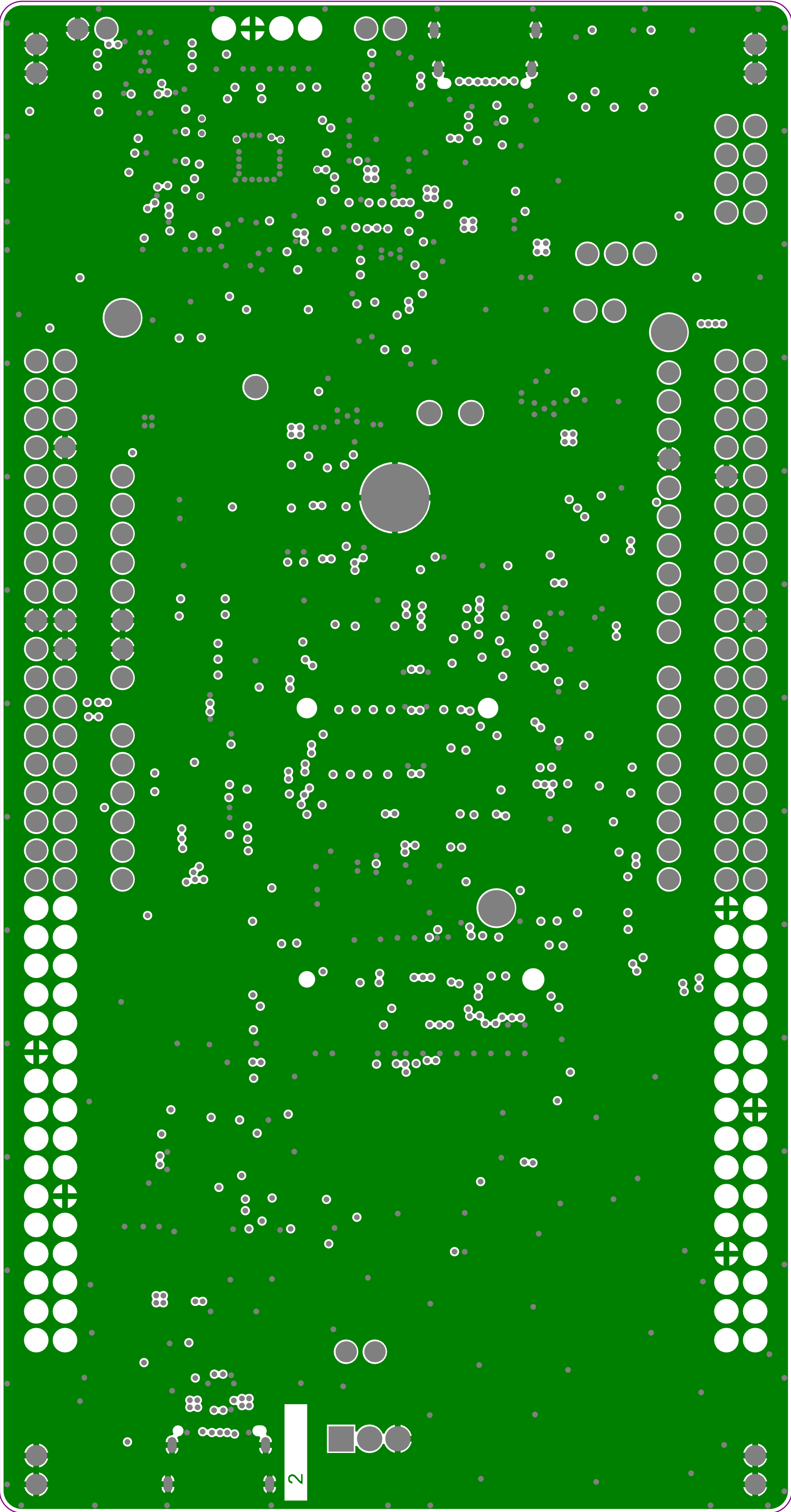
Project: NUCLEO-U3C5ZIQ		
Layer: Top Overlay	Gerber: .GTO	
Variant: U3C5ZIQ_S	MB2222	
Date: 21-Jan-2025	Rev: B	



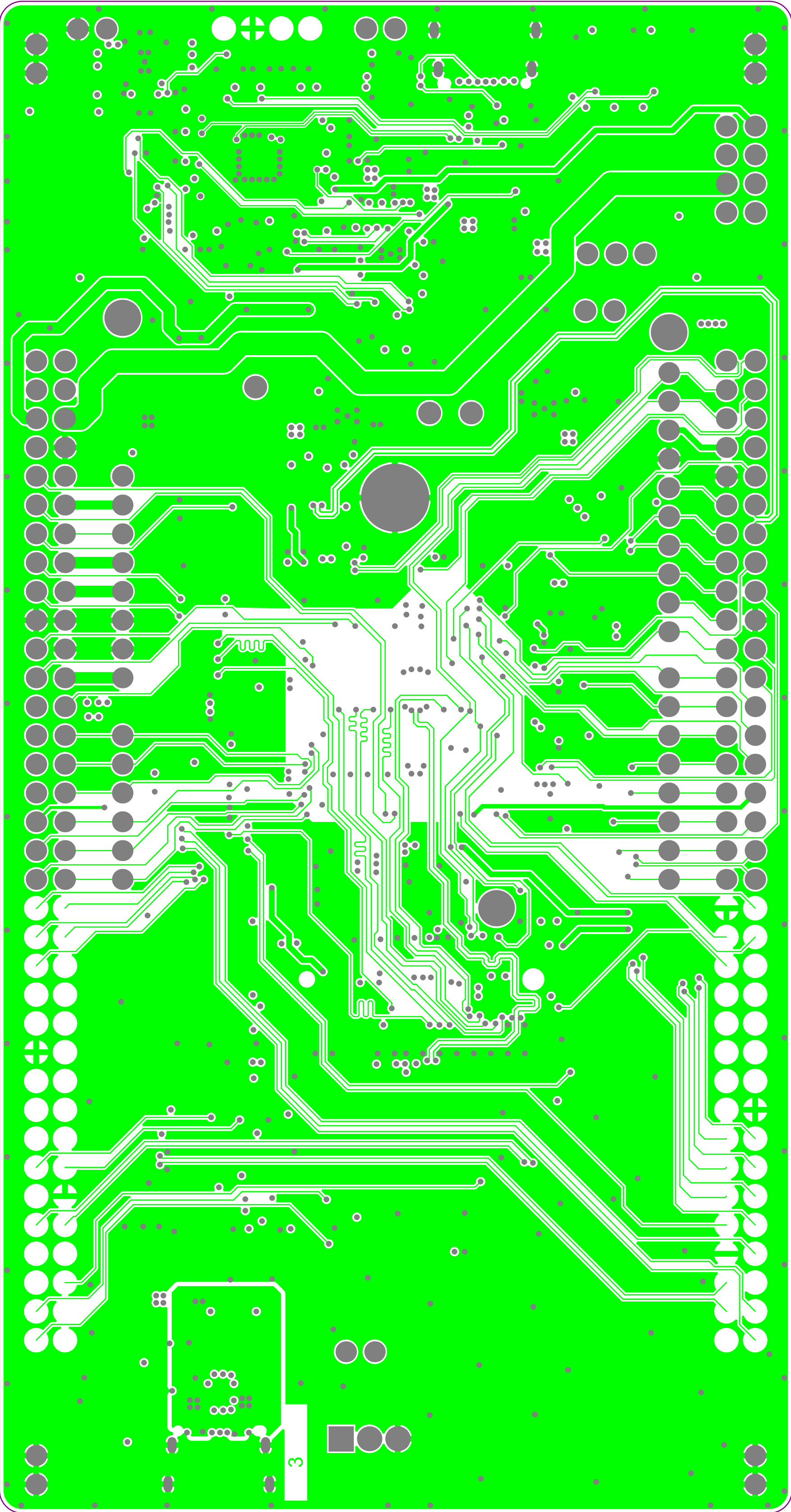
Project: NUCLEO-U3C5ZIQ		
Layer: Top Solder	Gerber: .GTS	
Variant: U3C5ZIQ_S	MB2222	
Date: 21-Jan-2025	Rev: B	



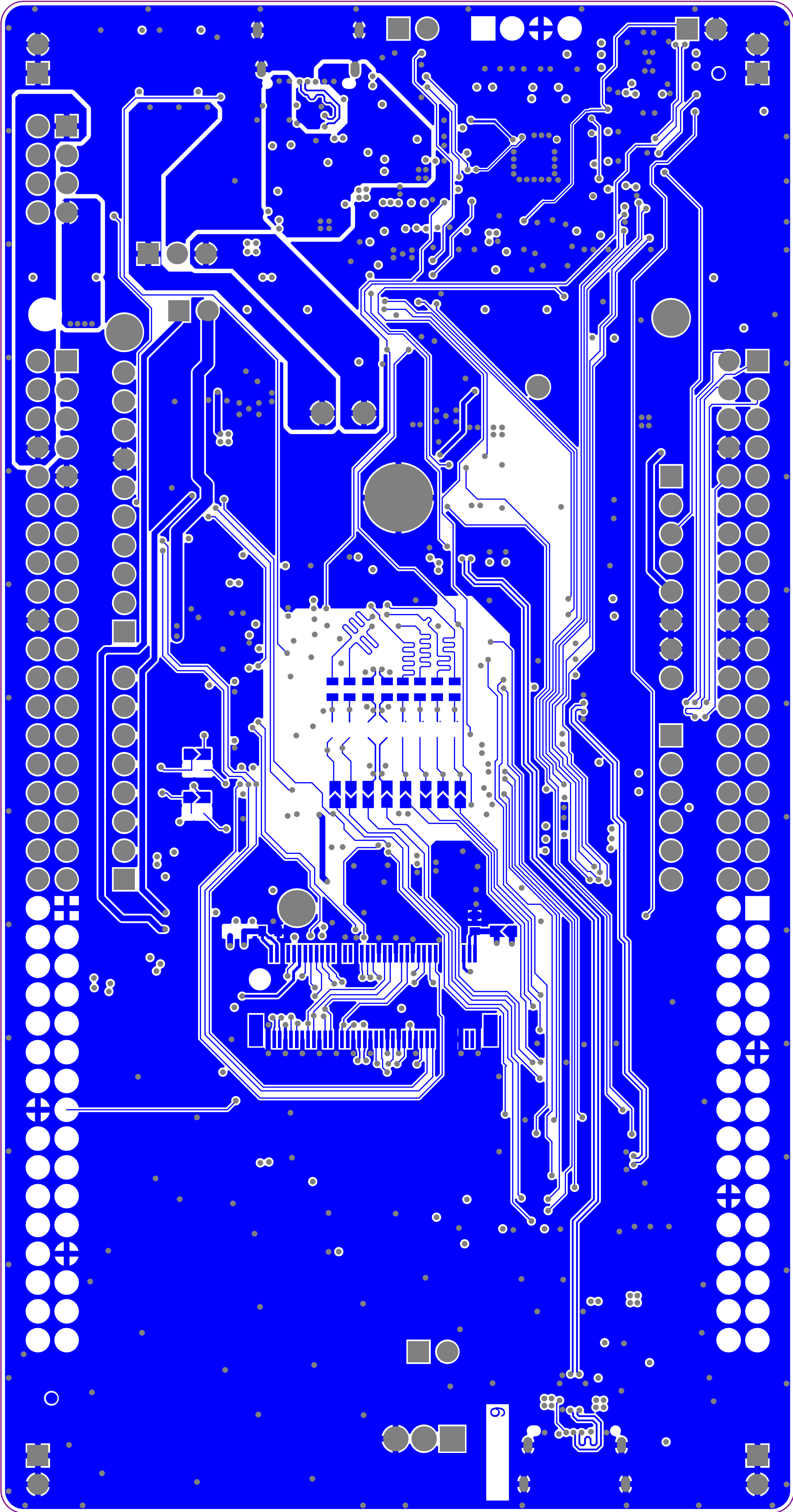
Project: NUCLEO-U3C5ZIQ		
Layer: Top Layer	Gerber: .GTL	
Variant: U3C5ZIQ_S	MB2222	
Date: 21-Jan-2025	Rev: B	



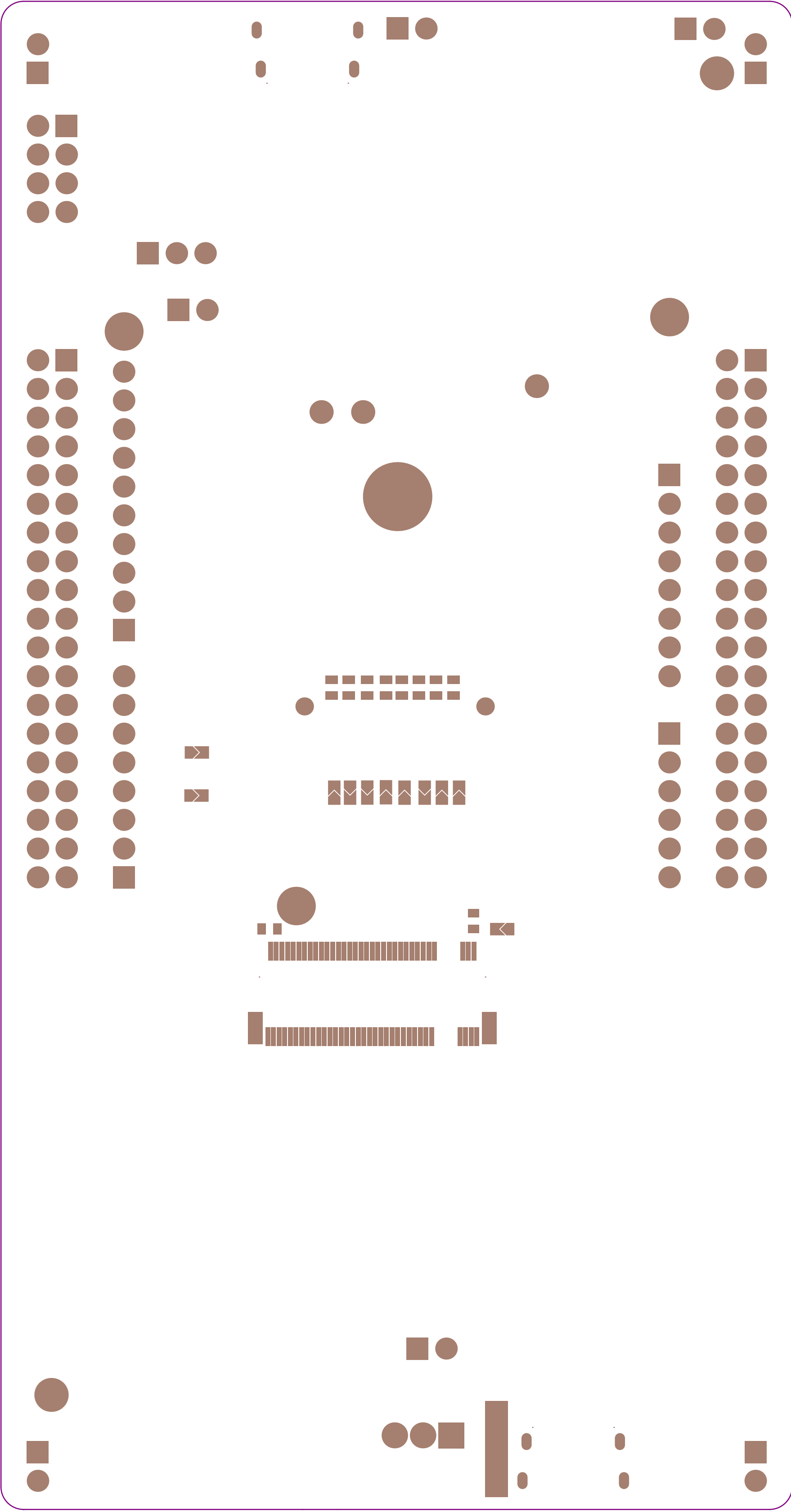
Project: NUCLEO-U3C5ZIQ		
Layer: L2_GND	Gerber: .G1	
Variant: U3C5ZIQ_S	MB2222	
Date: 21-Jan-2025	Rev: B	



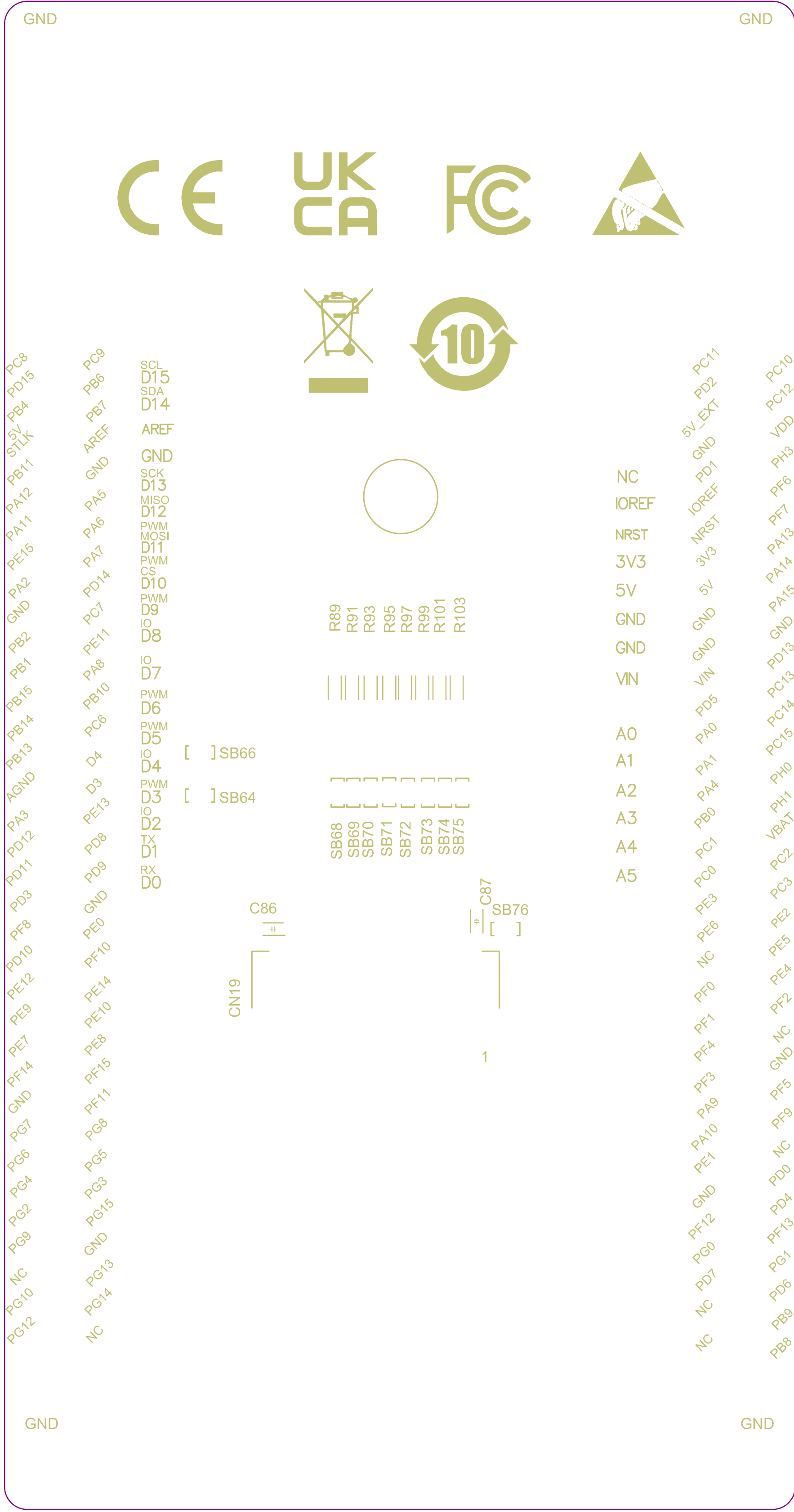
Project: NUCLEO-U3C5ZIQ		
Layer: L3_SIG	Gerber: .G2	
Variant: U3C5ZIQ_S	MB2222	
Date: 21-Jan-2025	Rev: B	



Project: NUCLEO-U3C5ZIQ		
Layer: Bottom Layer	Gerber:.GBL	
Variant: U3C5ZIQ_S	MB2222	
Date: 21-Jan-2025	Rev: B	



Project: NUCLEO-U3C5ZIQ		
Layer: Bottom Solder	Gerber:.GBS	
Variant: U3C5ZIQ_S	MB2222	
Date: 21-Jan-2025	Rev: B	



Symbol	Count	Hole Size	Plated	Hole Type	Drill Layer Pair	Via/Pad	Pad Shape	Template
	766	0.25mm (10.00mil)	PTH	Round	Top Layer - Bottom Layer	Via	Rounded	v51h25m0mx0
	8	0.50mm (19.69mil)	PTH	Slot	Top Layer - Bottom Layer	Pad	Rounded	(Mixed)
	2	0.65mm (25.59mil)	NPTH	Round	Top Layer - Bottom Layer	Pad	Rounded	c0hn65m5
	2	0.65mm (25.59mil)	NPTH	Slot	Top Layer - Bottom Layer	Pad	Rounded	c0hn65_95m5
	174	1.00mm (39.37mil)	PTH	Round	Top Layer - Bottom Layer	Pad	Rounded	(Mixed)
	32	1.10mm (43.31mil)	PTH	Round	Top Layer - Bottom Layer	Pad	Rounded	(Mixed)
	1	1.15mm (45.28mil)	NPTH	Round	Top Layer - Bottom Layer	Pad	Rounded	c0hn115m5
	3	1.40mm (55.12mil)	PTH	Round	Top Layer - Bottom Layer	Pad	(Mixed)	(Mixed)
	2	1.50mm (59.06mil)	NPTH	Round	Top Layer - Bottom Layer	Pad	Rounded	c0hn150m155(Tol3-3)
	1	1.65mm (64.96mil)	NPTH	Round	Top Layer - Bottom Layer	Pad	Rounded	c0hn165m5
	3	3.20mm (125.98mil)	NPTH	Round	Top Layer - Bottom Layer	Pad	Rounded	c320hn320
	1	4.15mm (163.39mil)	PTH	Round	Top Layer - Bottom Layer	Pad	Rounded	c600h415m605
	995 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

Layer	Name	Material	Thickness	Constant	Board Layer Stack	Board Layer Stack
1	Top Overlay					
2	Top Solder	Solder Resist	5.91mil	3.5		
3	Top Layer	Copper	1.65mil			
4	Dielectric 1	FR-4	3.54mil	4.2		
5	L2_GND	Copper	1.38mil			
6	Dielectric 2	FR-4	3.94mil	4.2		
7	L3_SIG	Copper	1.38mil			
8	Dielectric 3	FR4	38.03mil	4.2		
9	L4_VCC	Copper	1.38mil			
10	Dielectric4	FR-4	3.94mil	4.2		
11	L5_GND	Copper	1.38mil			
12	Dielectric5	FR-4	3.54mil	4.2		
13	Bottom Layer	Copper	1.65mil			
14	Bottom Solder	Solder Resist	5.91mil	3.5		
15	Bottom Overlay					

THE COMPONENTS WITH PLATED THROUGH HOLE (PTH) MAY BE WELDED (CABLED) IN "PIN-IN-PASTE" MODE (IF NECESSARY)

PCB SPECIFICATIONS :

A. MATERIAL :

B. MATERIAL FAMILY :

C. SOLDERMASK COLOR :

D. SILKSCREEN COLOR :

E. SURFACE FINISH :

F. IMPEDANCE CONTROL :

G. THROUGH VIA :

H. STACK-UP :

FR-4

N/A

☐ GREEN

☒ WHITE

☐ HASL

☐ NO

☒ ENIG

☐ IMMERSION SILVER

☐ HASL

☐ YES (SEE IMPEDANCE TABLE FOR DETAIL INFORMATION)

☐ TG-170

☒ TG-150

☐ TG-140

☐ RED

☐ BLACK

☐ GOLDEN FINGER

☐ BLACK

☒ Blue ink PANTONE 2955

☐ IMMERSION TIN

☐ IMMERSION SILVER

☐ IMMERSION TIN

☐ GOLDEN FINGER

☐ HASL (PB-FREE)

☐ GOLDEN FINGER

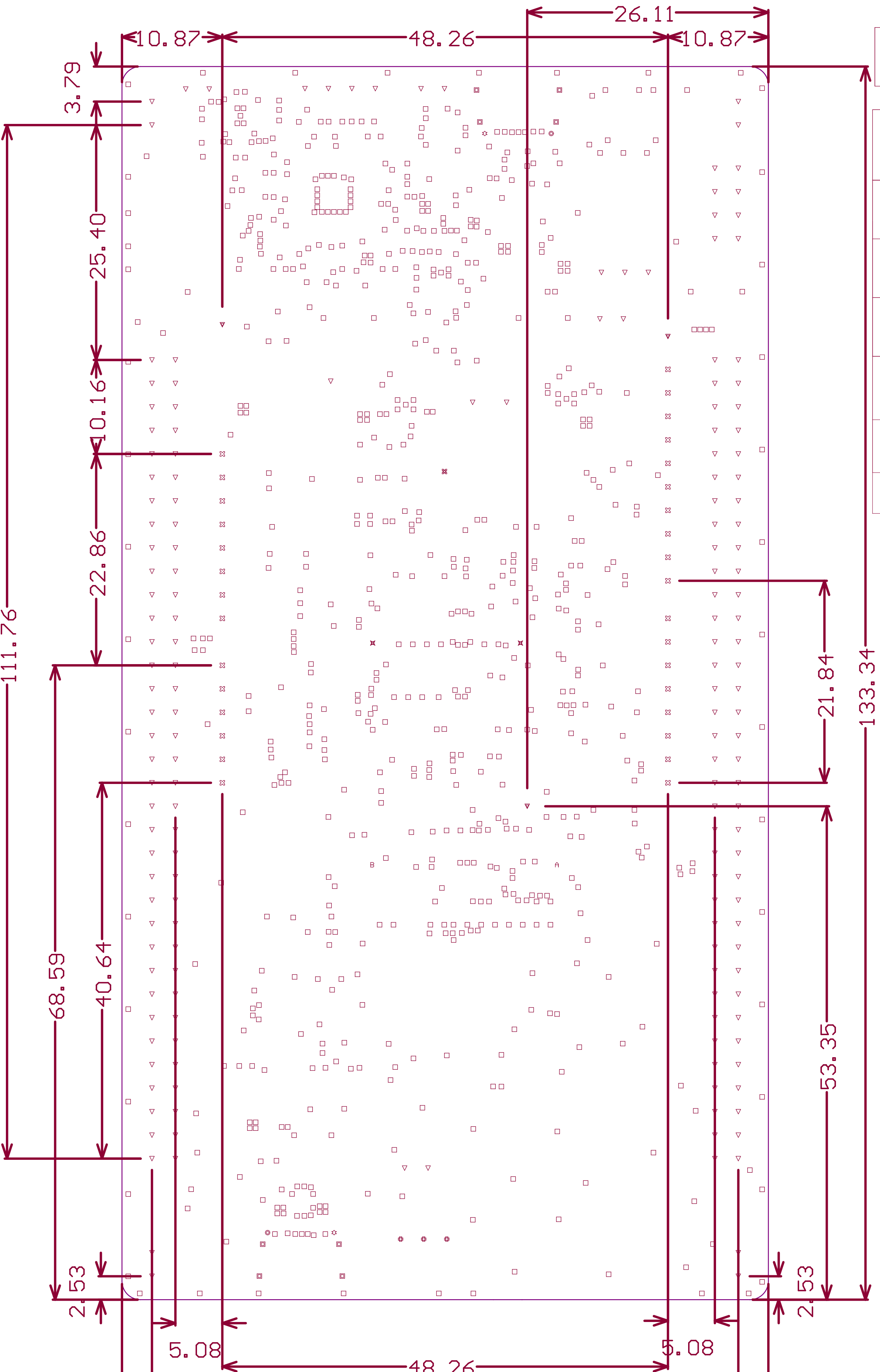
PLUG THE VIAS WHICH ARE COVERED WITH SOLDERMASK ONE OR TWO SIDE.
PLUG MATERIAL : ☒ SOLDERMASK ☐ NON-CONDUCTIVE EPOXY.
SEE LAYER STACK-UP SEQUENCE FOR OVERALL THICKNESS.

PCB : TYPE 3

ASPECT-RATIO, AXE Z :
6:1 to 8:1
LEVEL "B"

MINIMUM PARAMETERS

DEFAULT
TRACKS : 0.120mm
GAPS : 0.120mm



5 IMPEDANCE TABLE

LAYER	TRACE (mil)	SPACING (mil)	IMPEDANCE (Single end)	IMPEDANCE (Differential)	TOLERANCE
1,6	4.0	N/A	55 OHM	N/A	+/-10%
3	4.0				
1,6	6.1	8.9	N/A	90 OHM	+/-10%
3	5.1	9.9	N/A	90 OHM	+/-10%
1,6	5.1	9.9	N/A	100 OHM	+/-10%
3	4.1	10.9	N/A	100 OHM	+/-10%
1	3.9	11.1	N/A	120 OHM	+/-10%

Project: NUCLEO-U3C5ZIQ

Layer: Drill Drawing

Variant: U3C5ZIQ_S

Date: 21-Jan-2025

Gerber: .DRL

MB2222

Rev: B