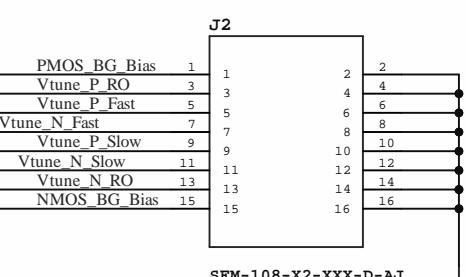
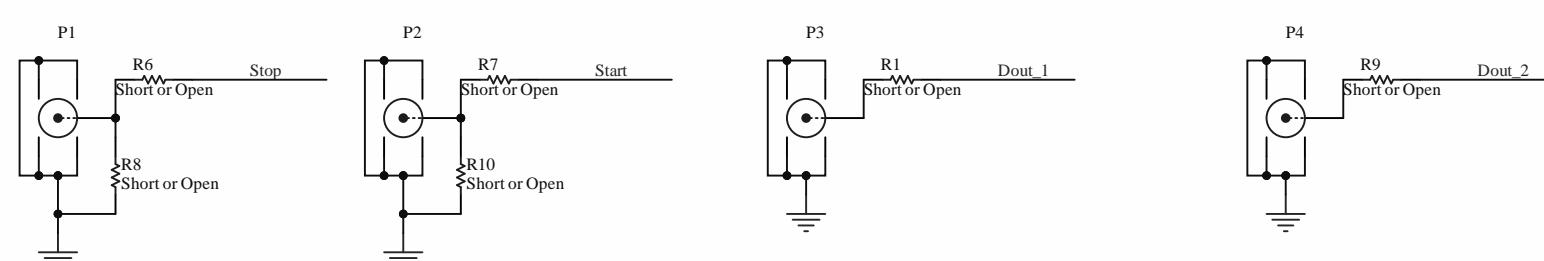
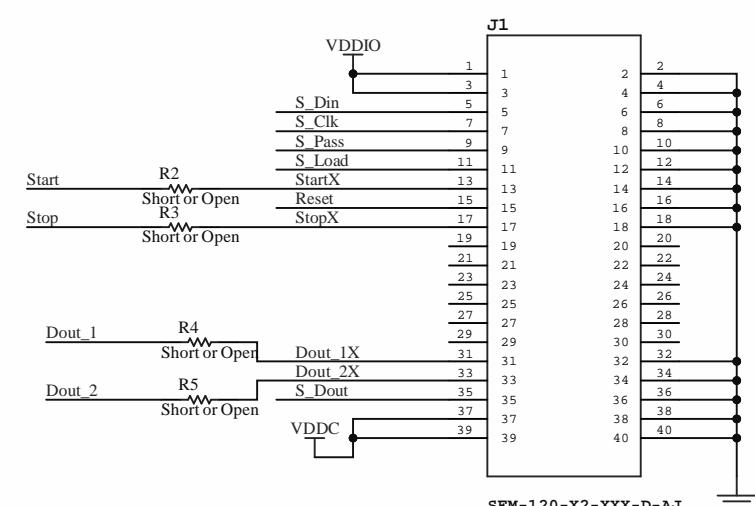
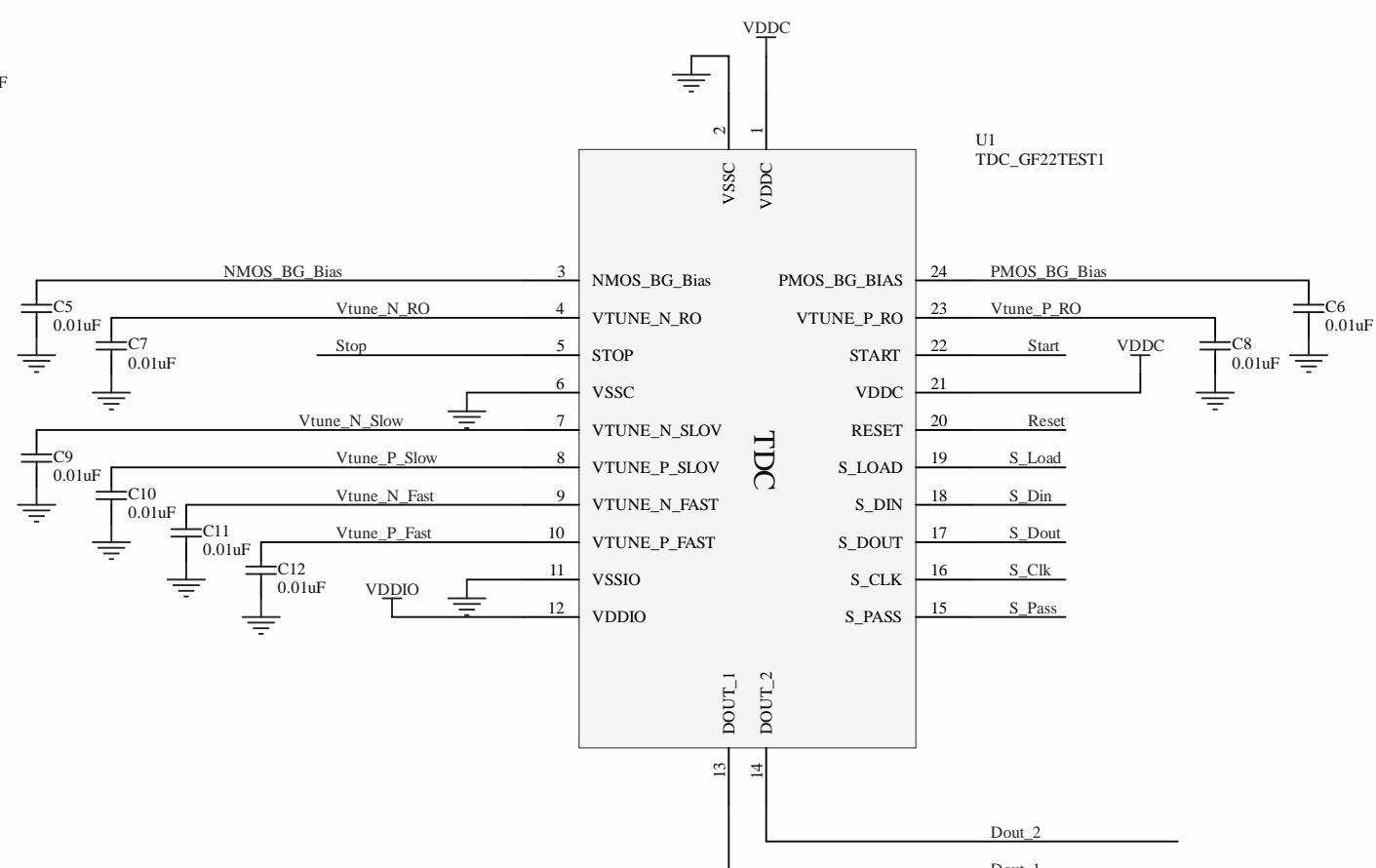


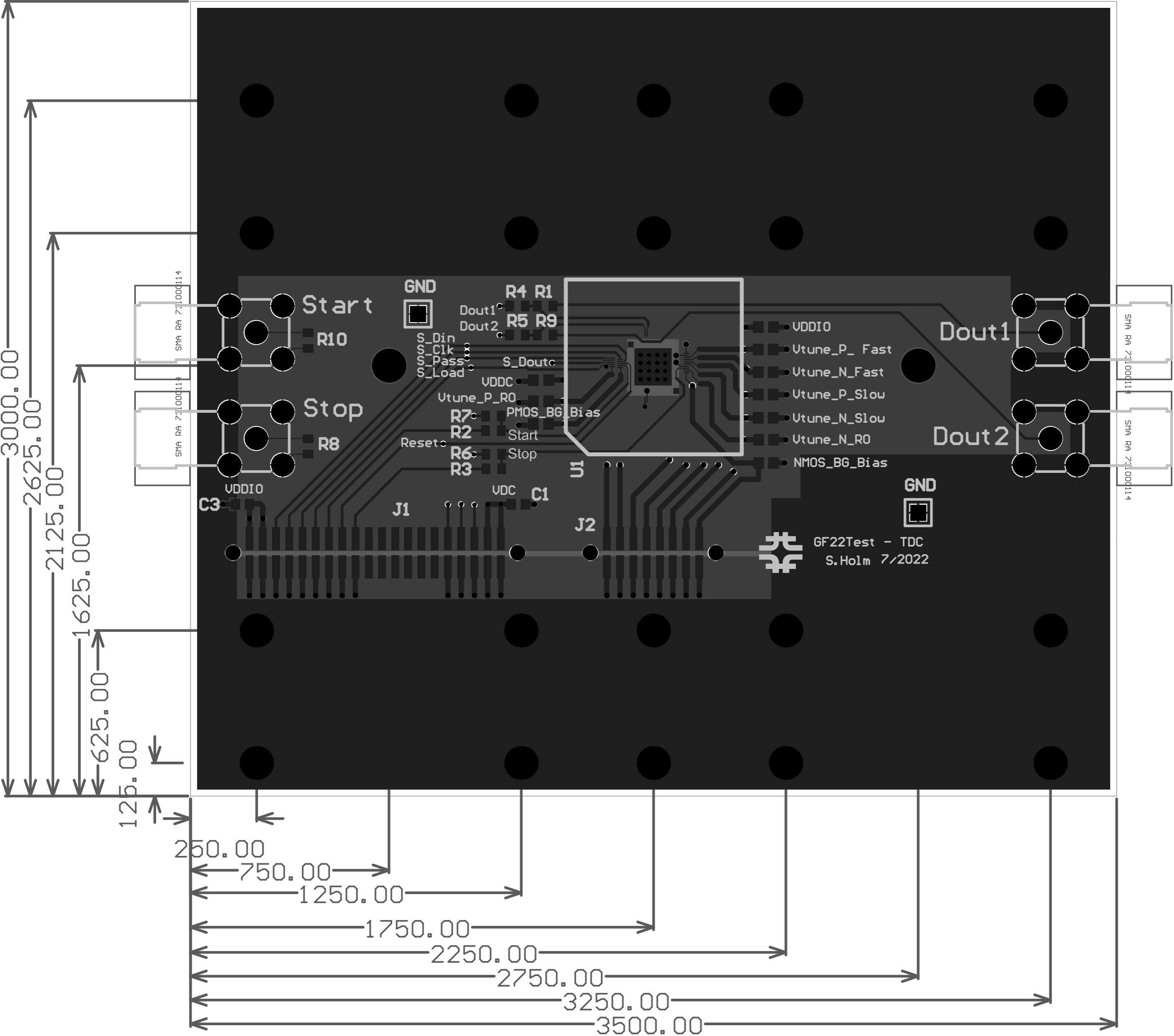
Should the bottom pad of ASIC(substrate) connect to GND or PMOS_BG_bias??

Need 7 digital inputs(0/1.8v)
Need 3 digital outputs
2 Powers supplies(0.8v & 1.8v)
8 Bias Sources(0 to 2v)
NMOS_BG_bias = 0 to +2v
PMOS_BG_bias = 0 to -2v



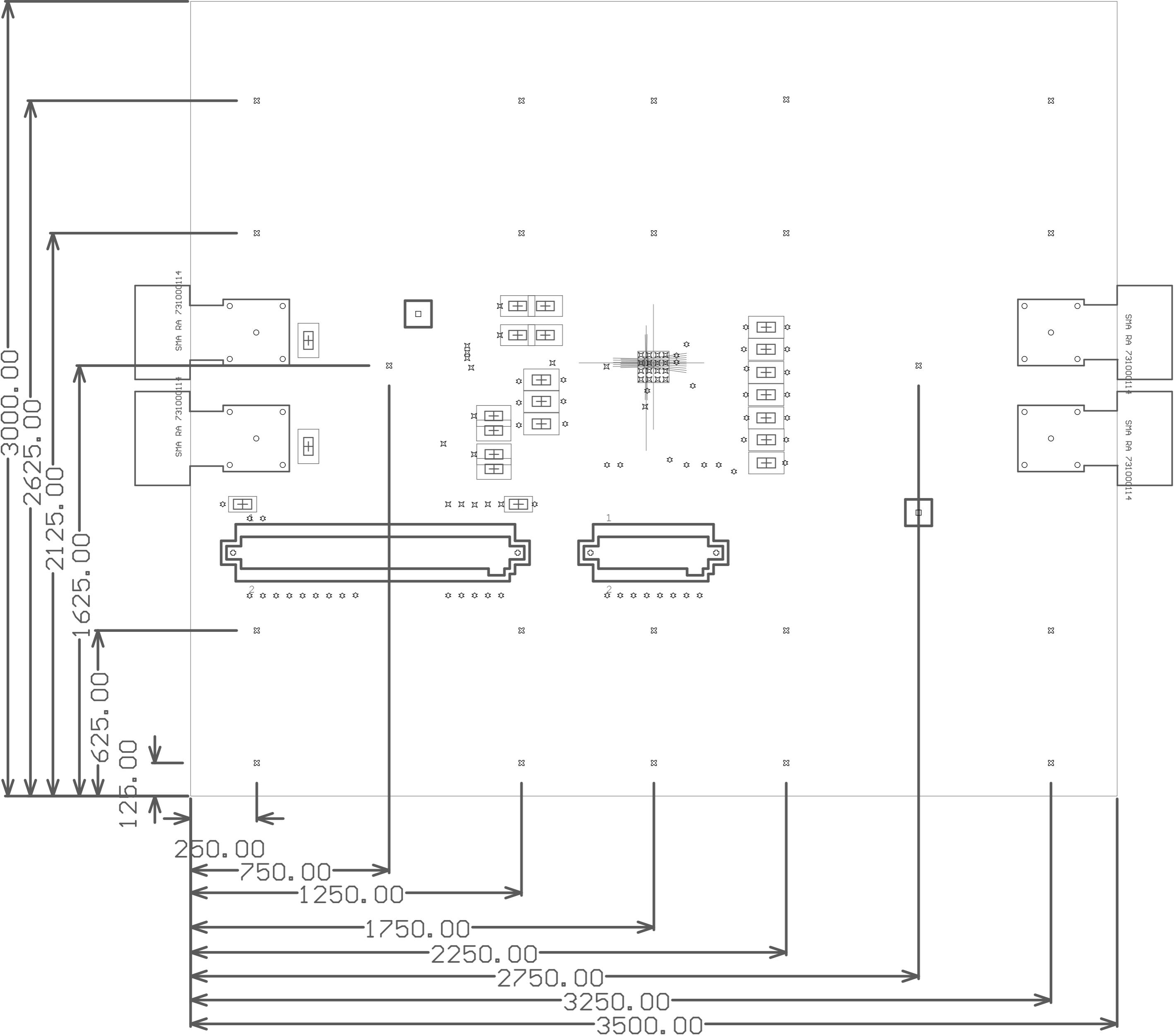
Operated by Fermi Research Alliance, LLC
under Contract No. DE-AC02-07CH11359
with the United States Department of Energy.

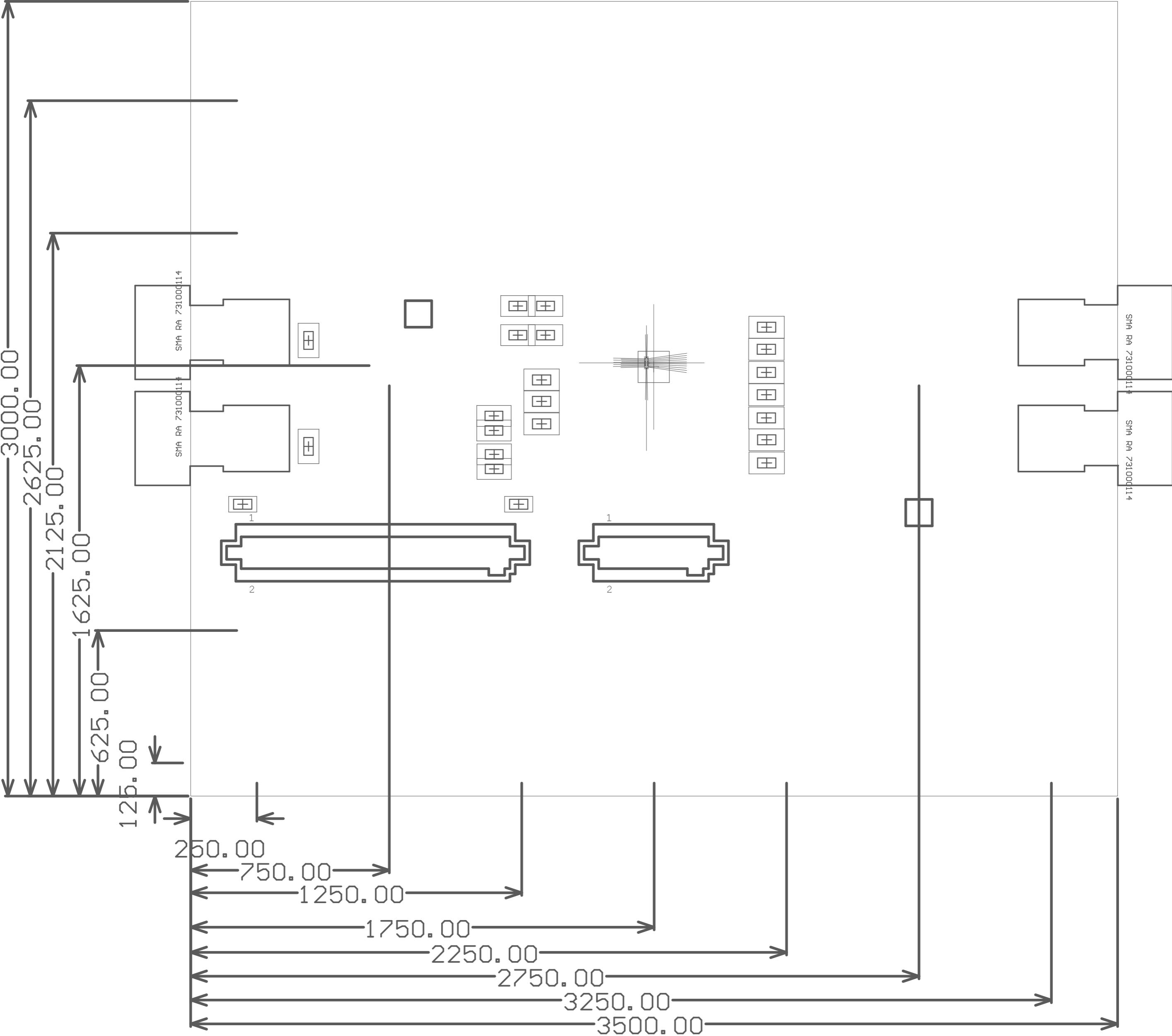
Size B	Rev *	*	ENGINEER: *
Number *	Date: 7/6/2022	Sheet 1 of 1	DRAWN: *
	Time: 10:13:20 AM		CHECKED: *
			APPROVED: *

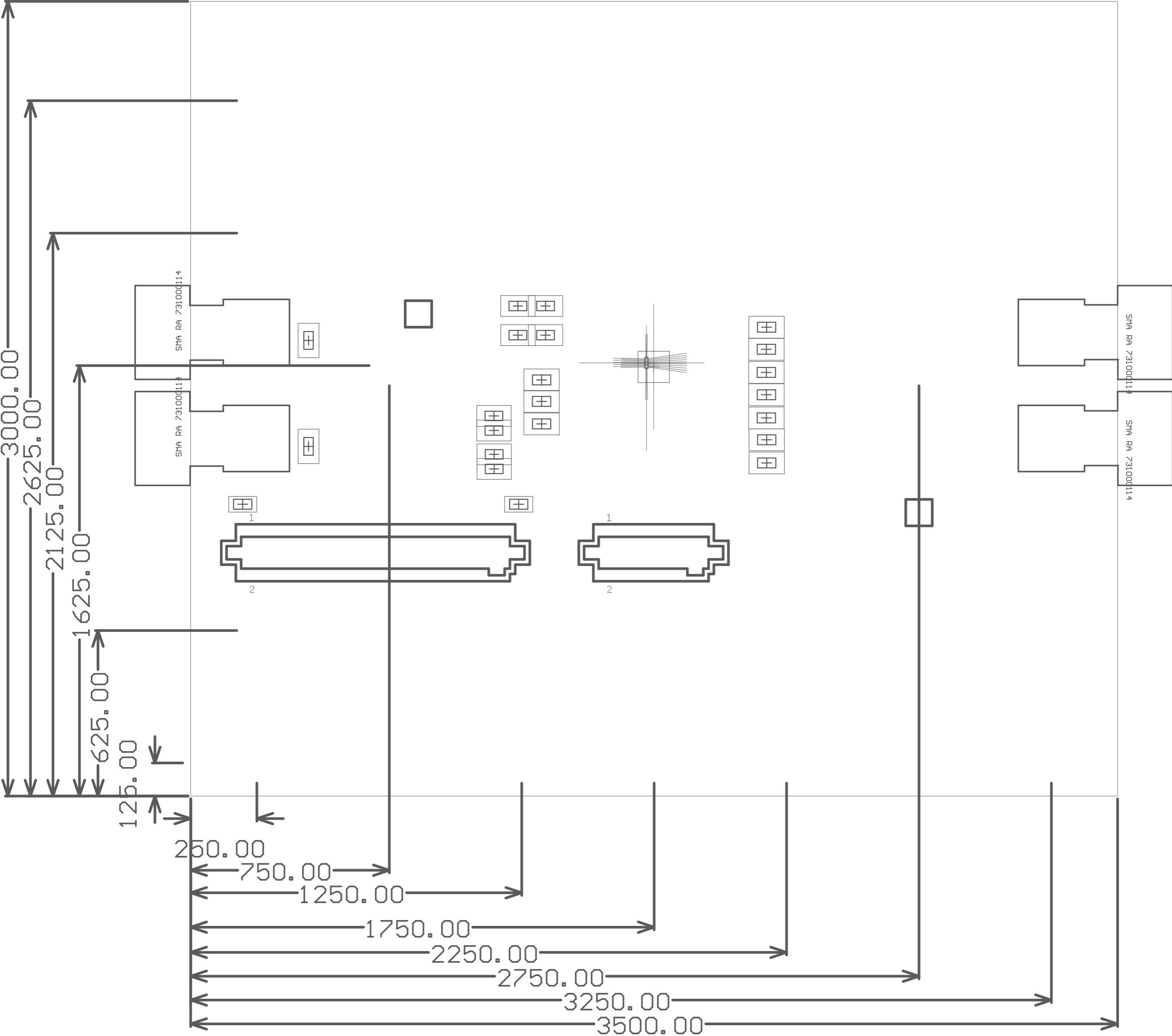


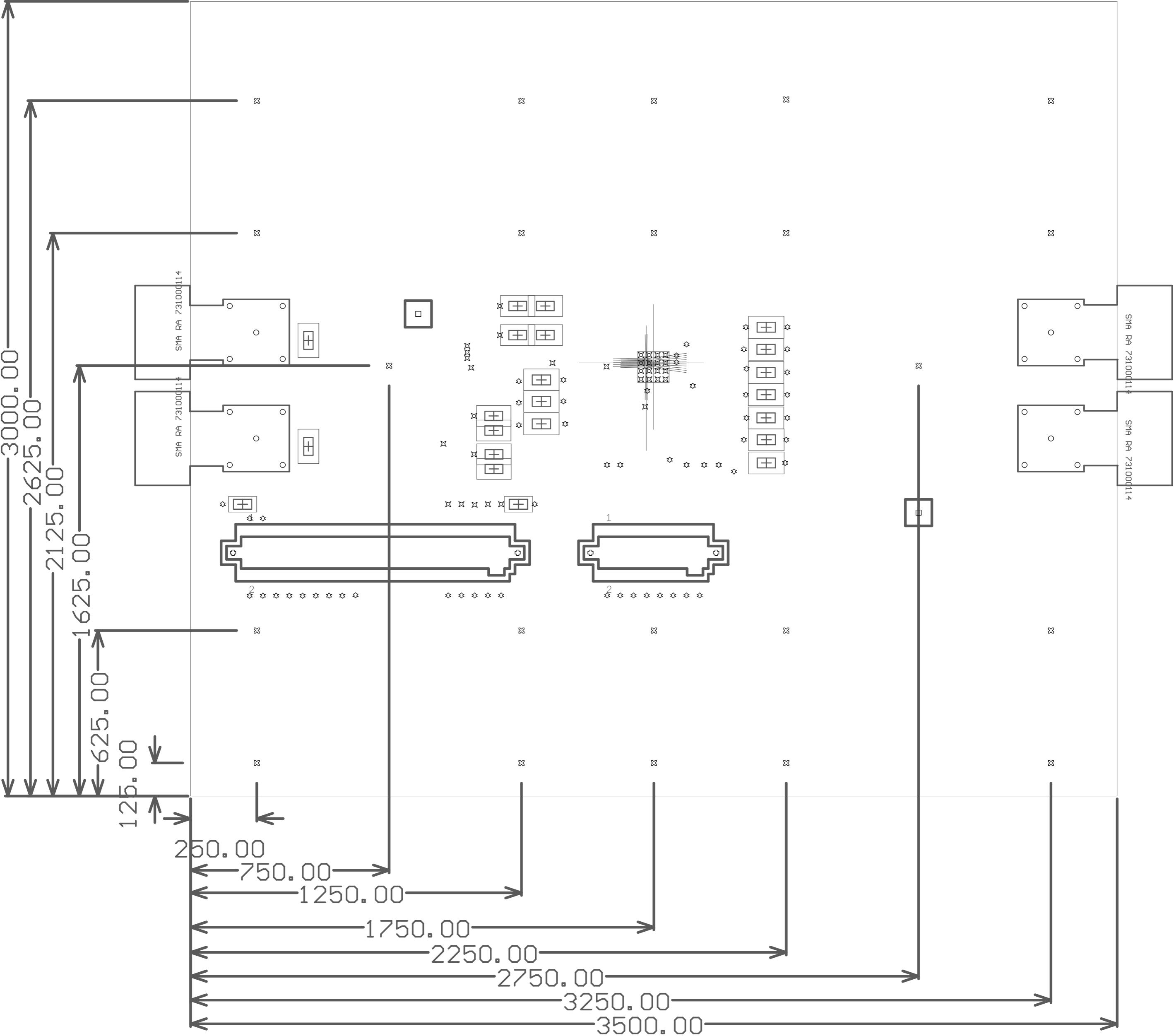
Board Stack Report

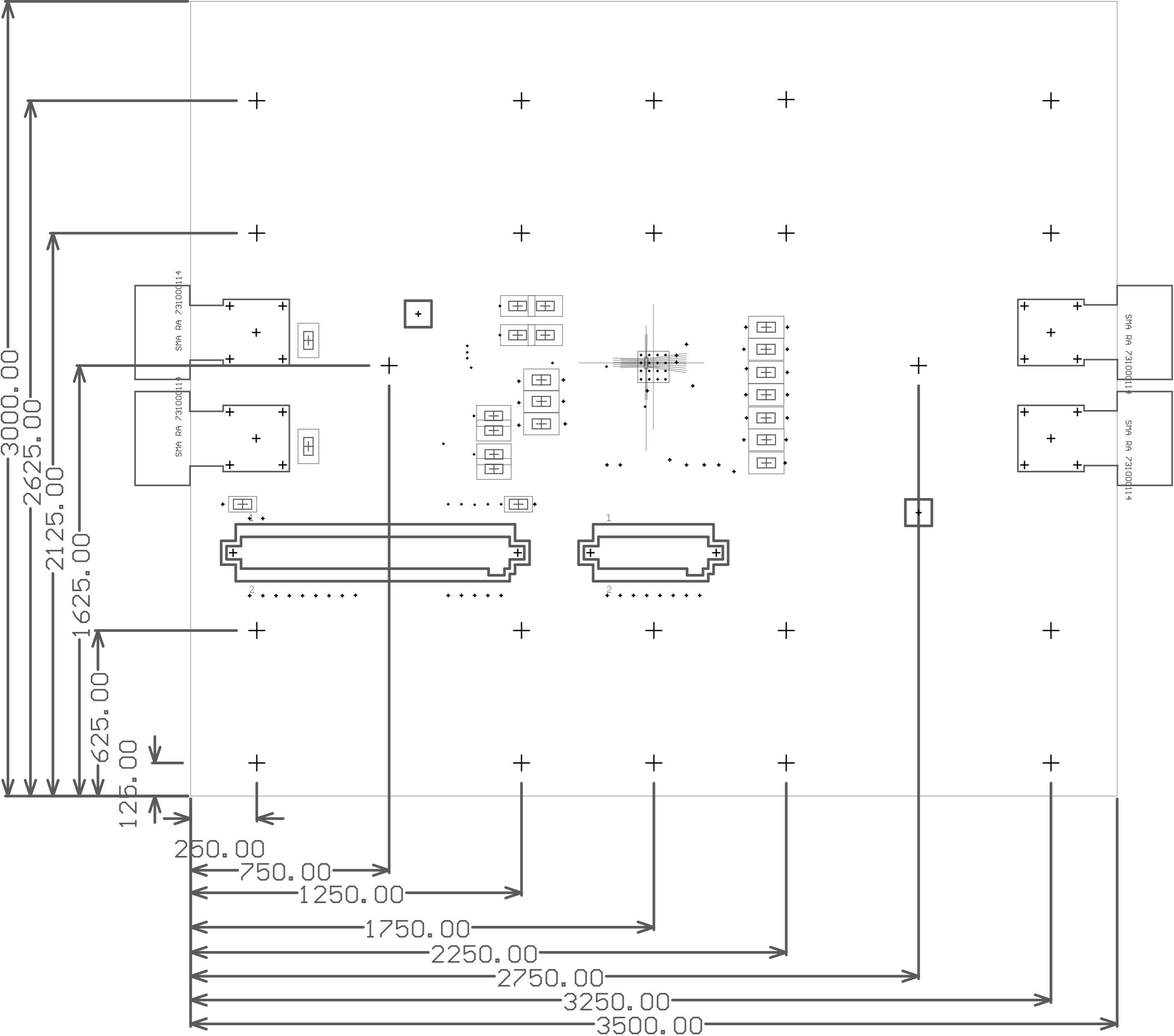
Stack Up		Layer Stack			
Layer	Board Layer Stack	Name	Material	Thickness	Constant
1		Top Paste			
2		Top Overlay			
3		Top Solder	Solder Resist	0.40mil	3.5
4		Top Layer	Copper	1.38mil	
5		Dielectric 1	PP-023	8.60mil	4.5
6		Layer 1	Copper	0.70mil	
7		Dielectric 2	Core-042	39.00mil	4.6
8		Layer 2	Copper	0.70mil	
9		Dielectric 3	PP-023	8.60mil	4.5
10		Bottom Layer	Copper	1.38mil	
11		Bottom Solder	Solder Resist	0.40mil	3.5
12		Bottom Overlay			
13		Bottom Paste			
Height : 61.16mil					

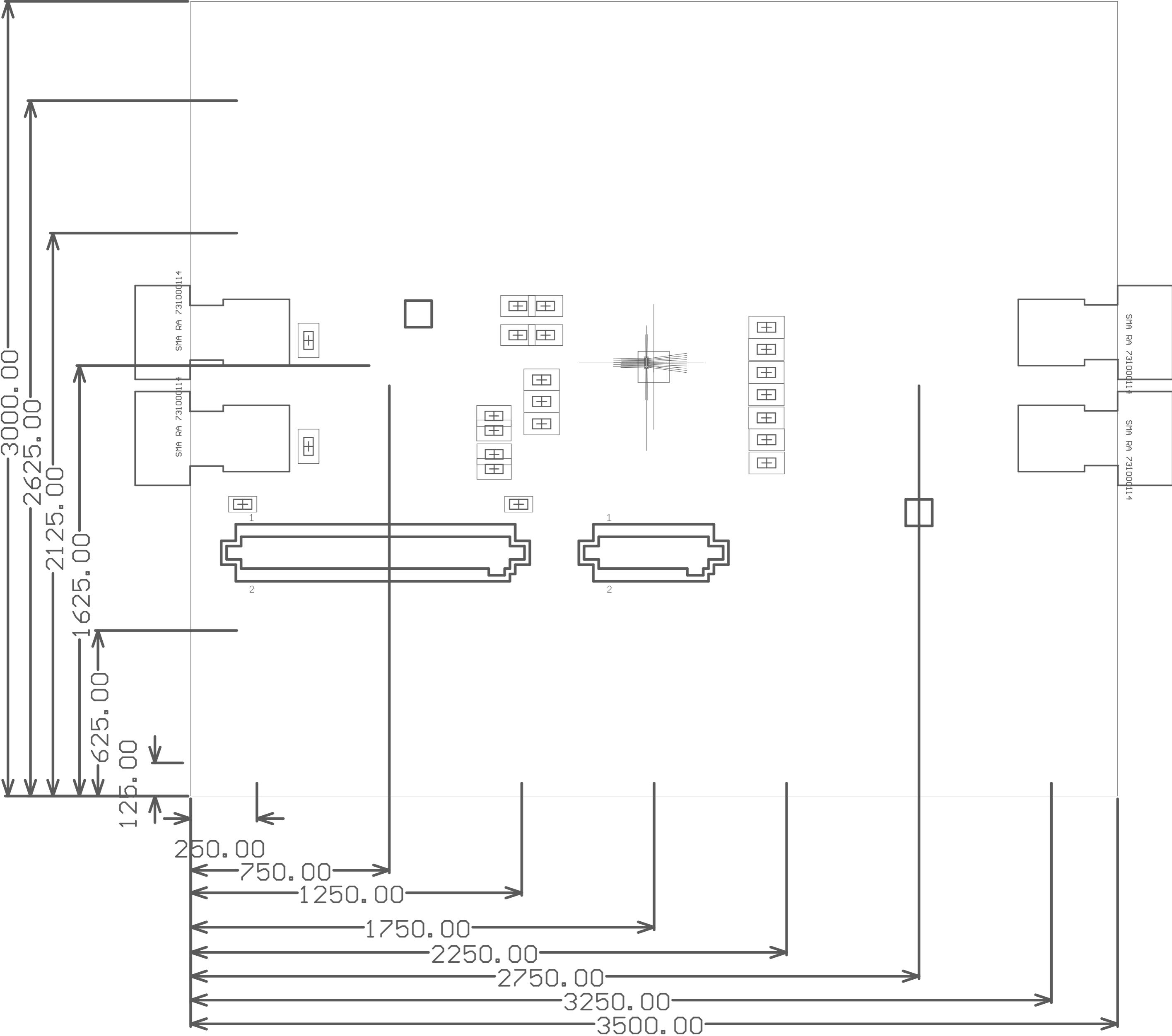


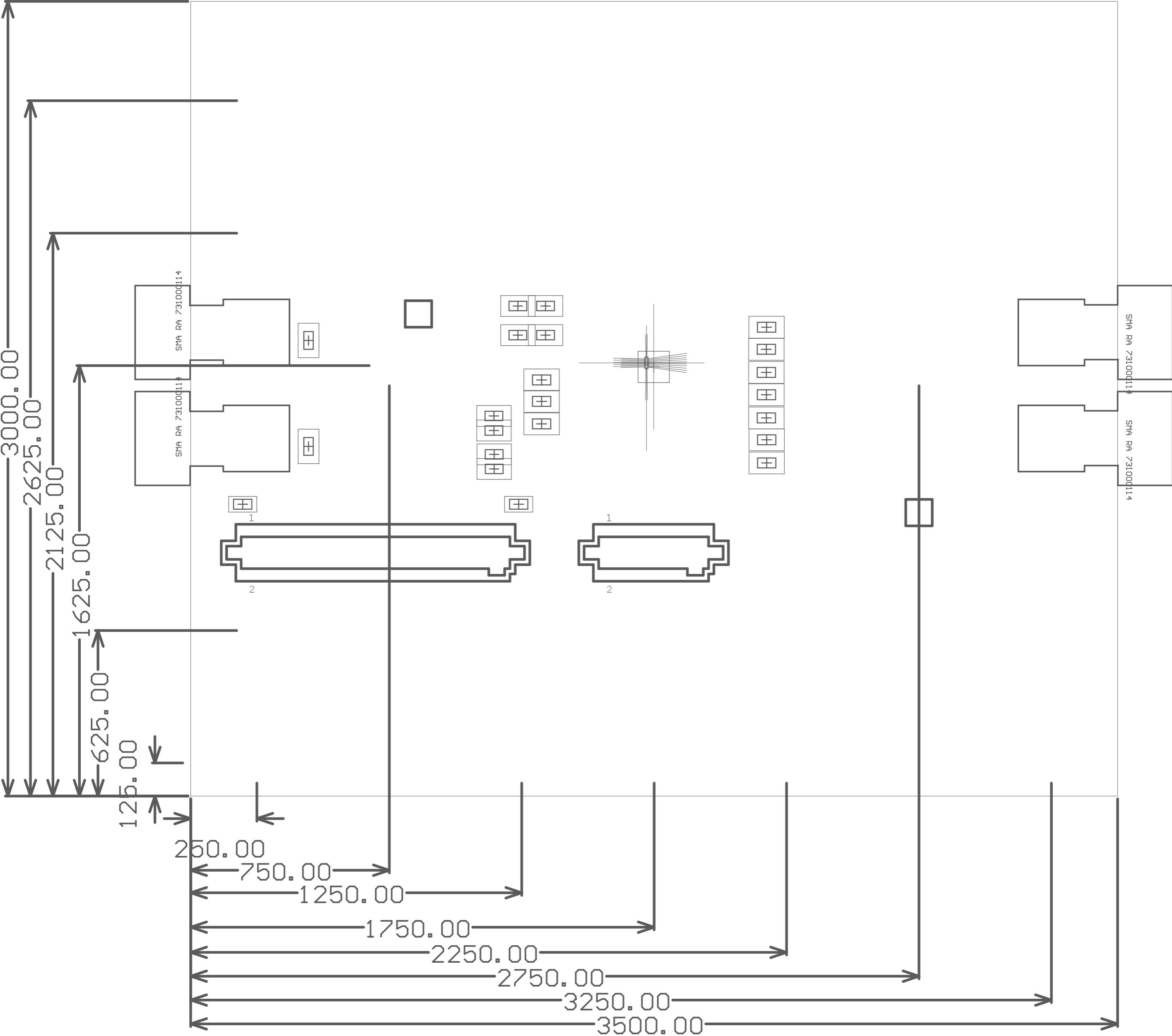


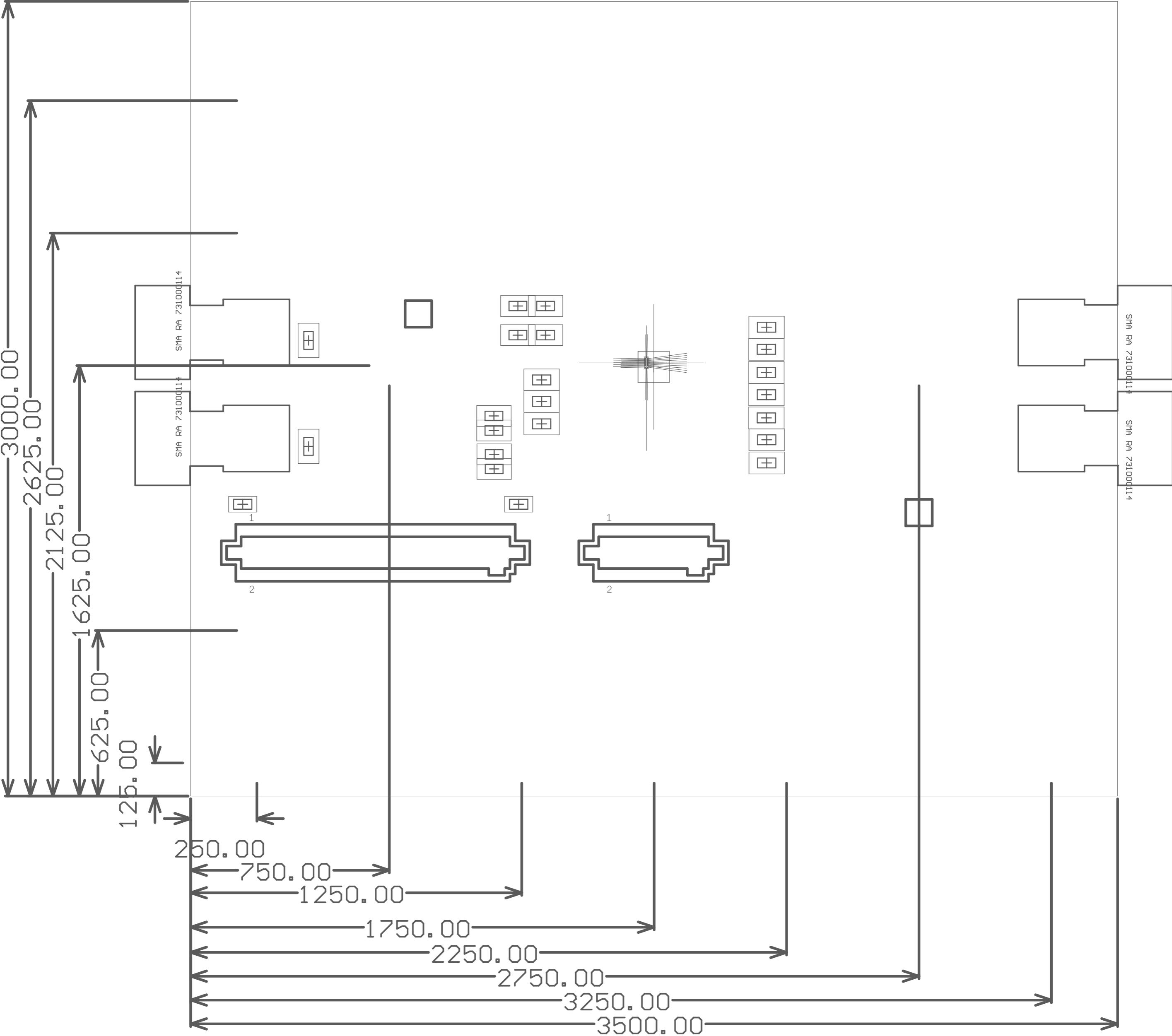


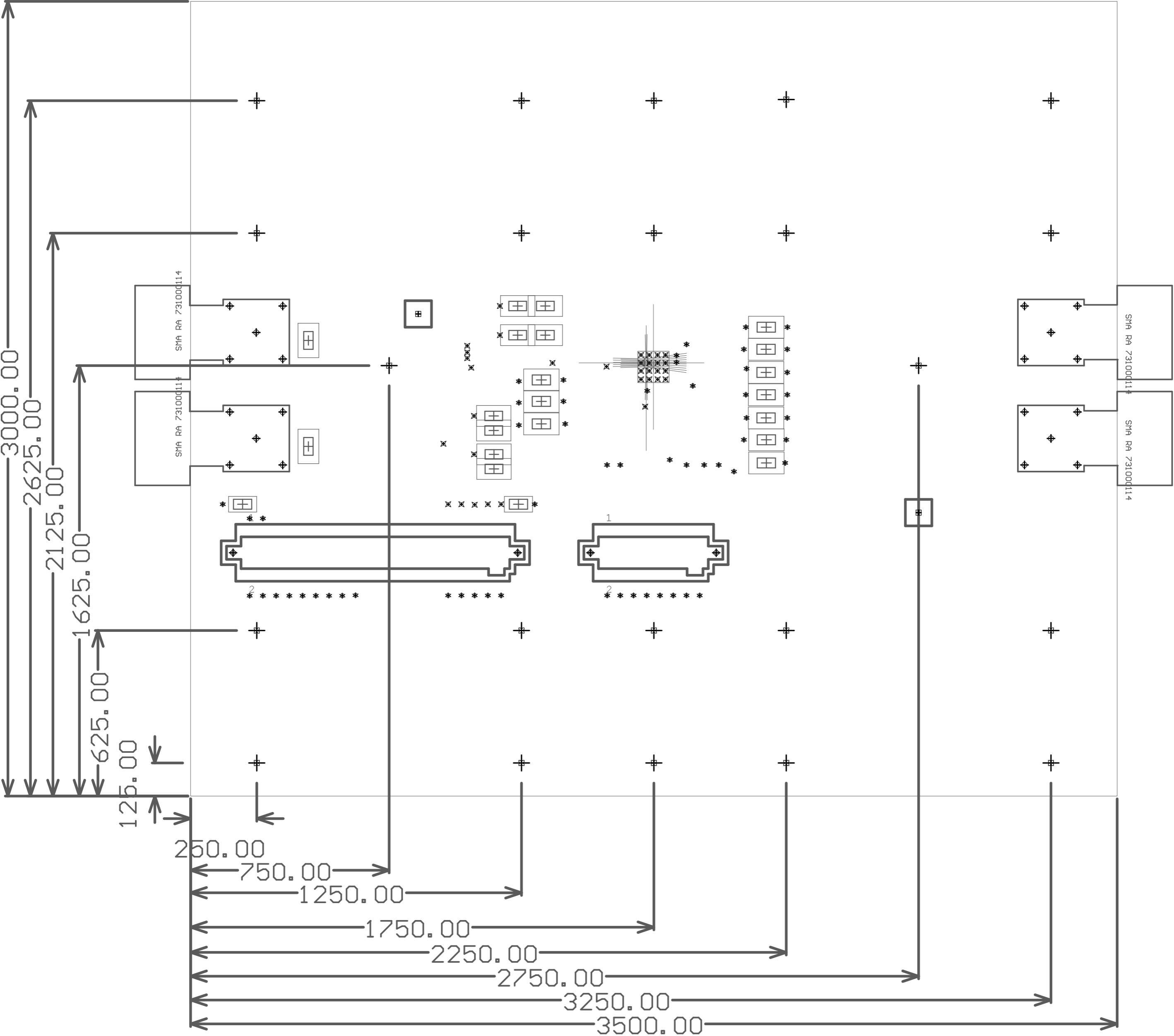


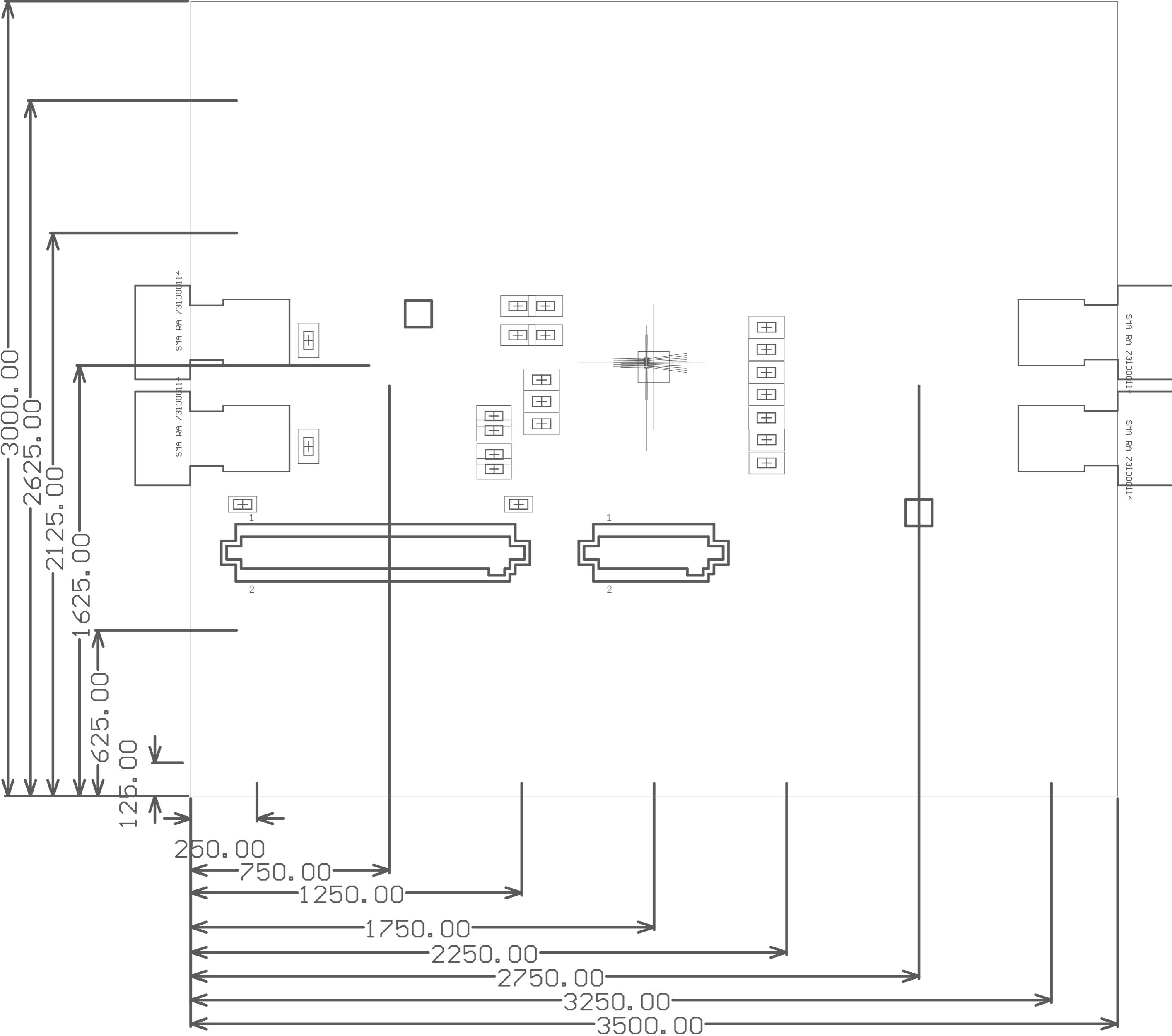


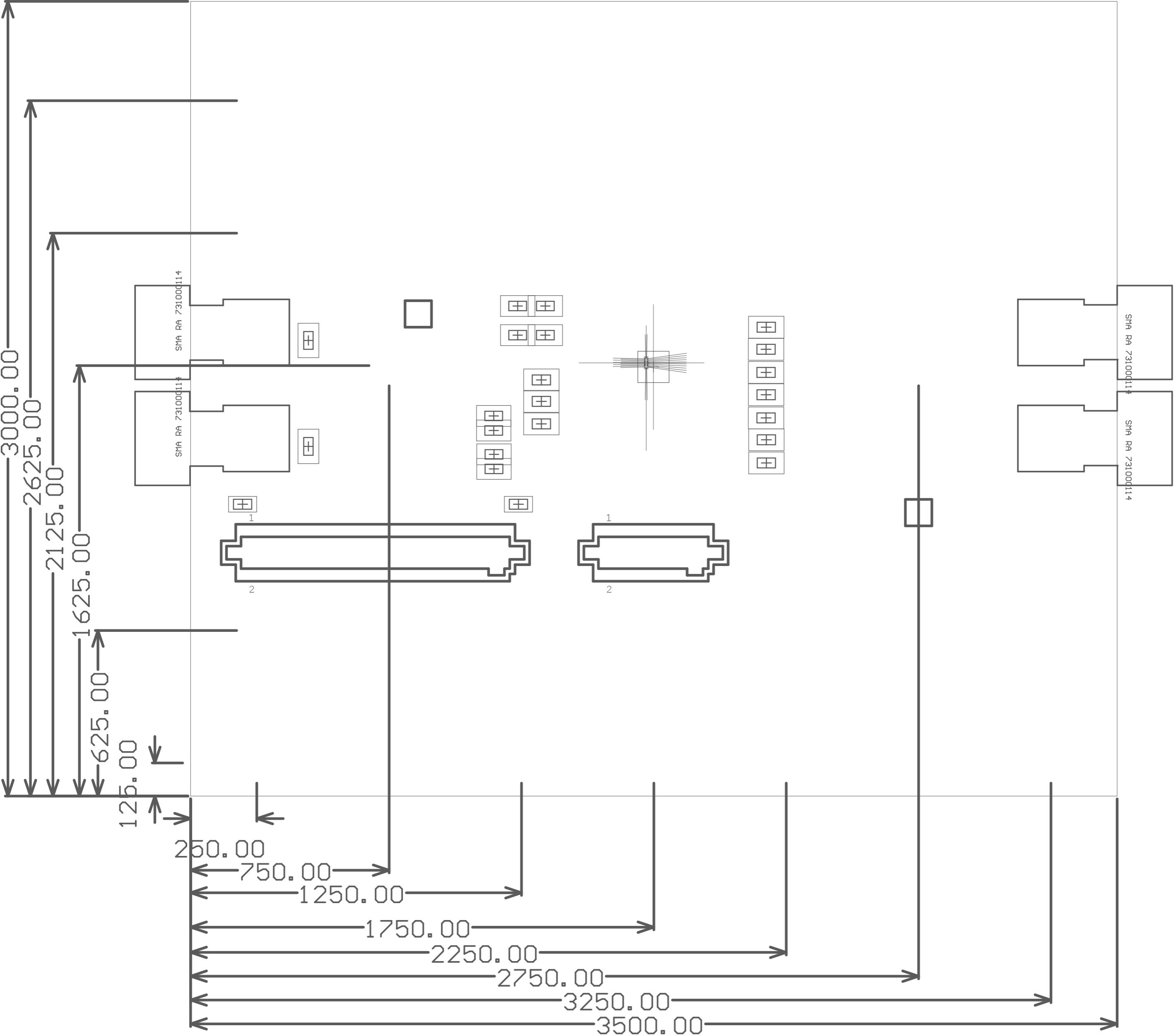


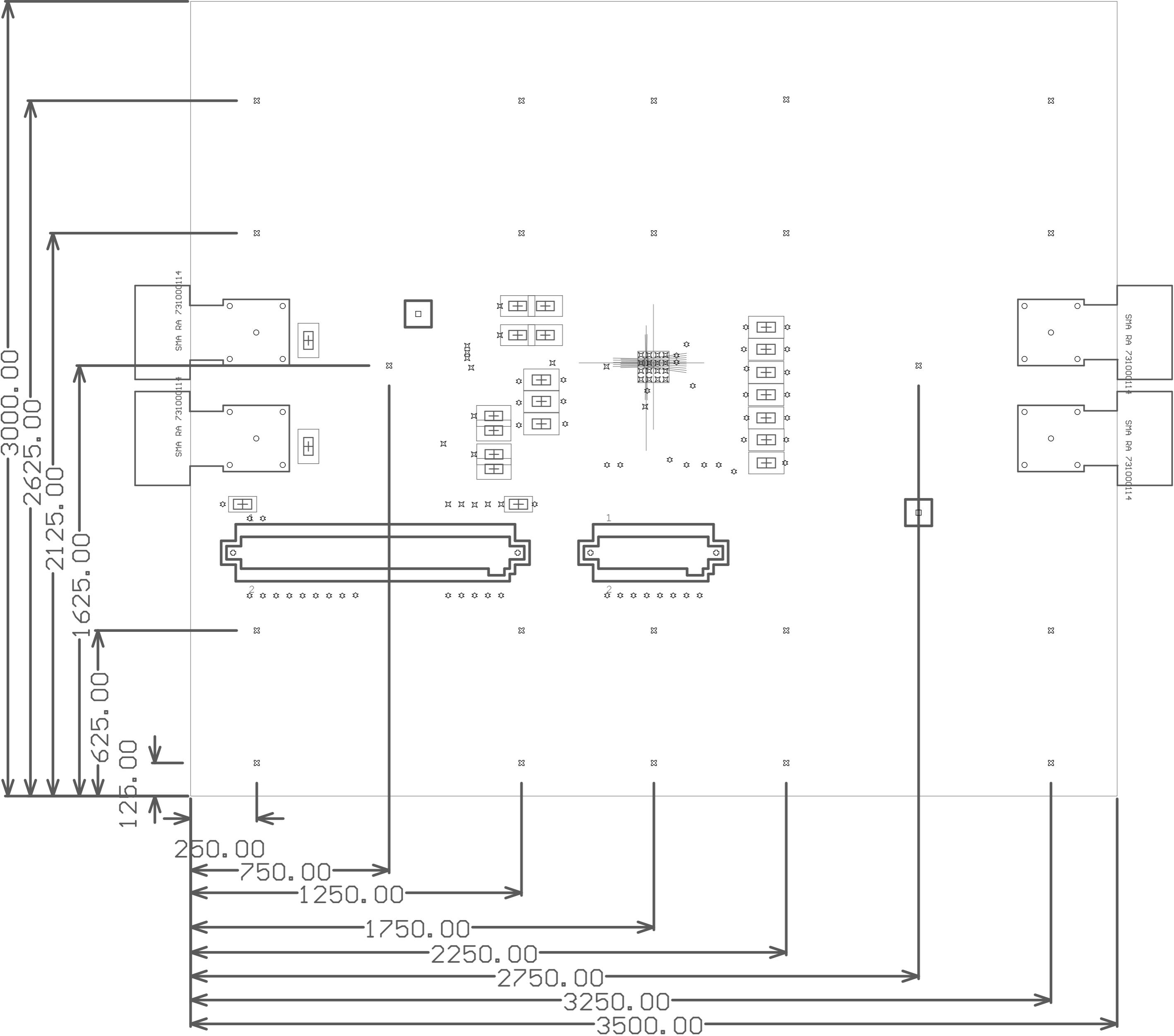


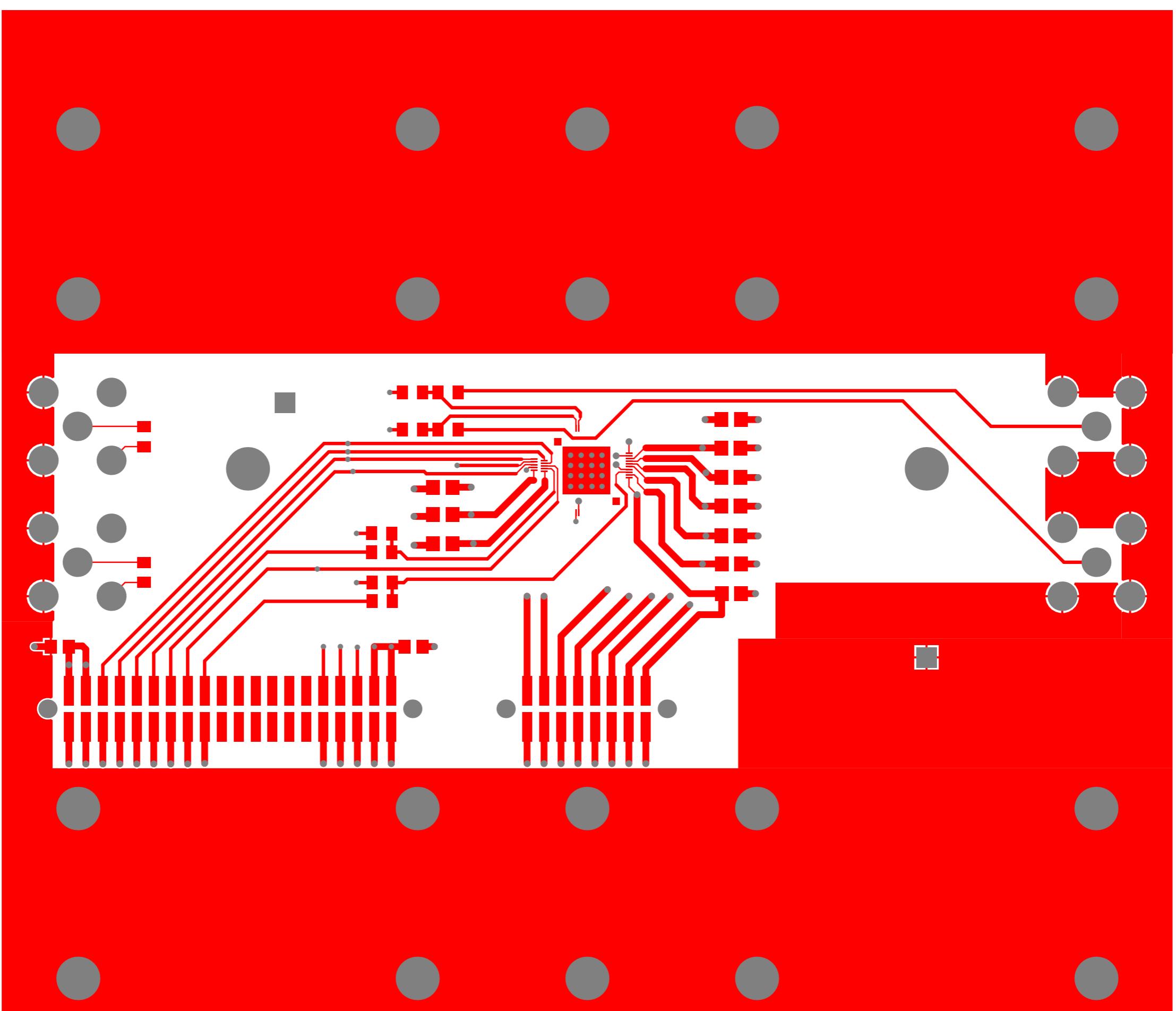


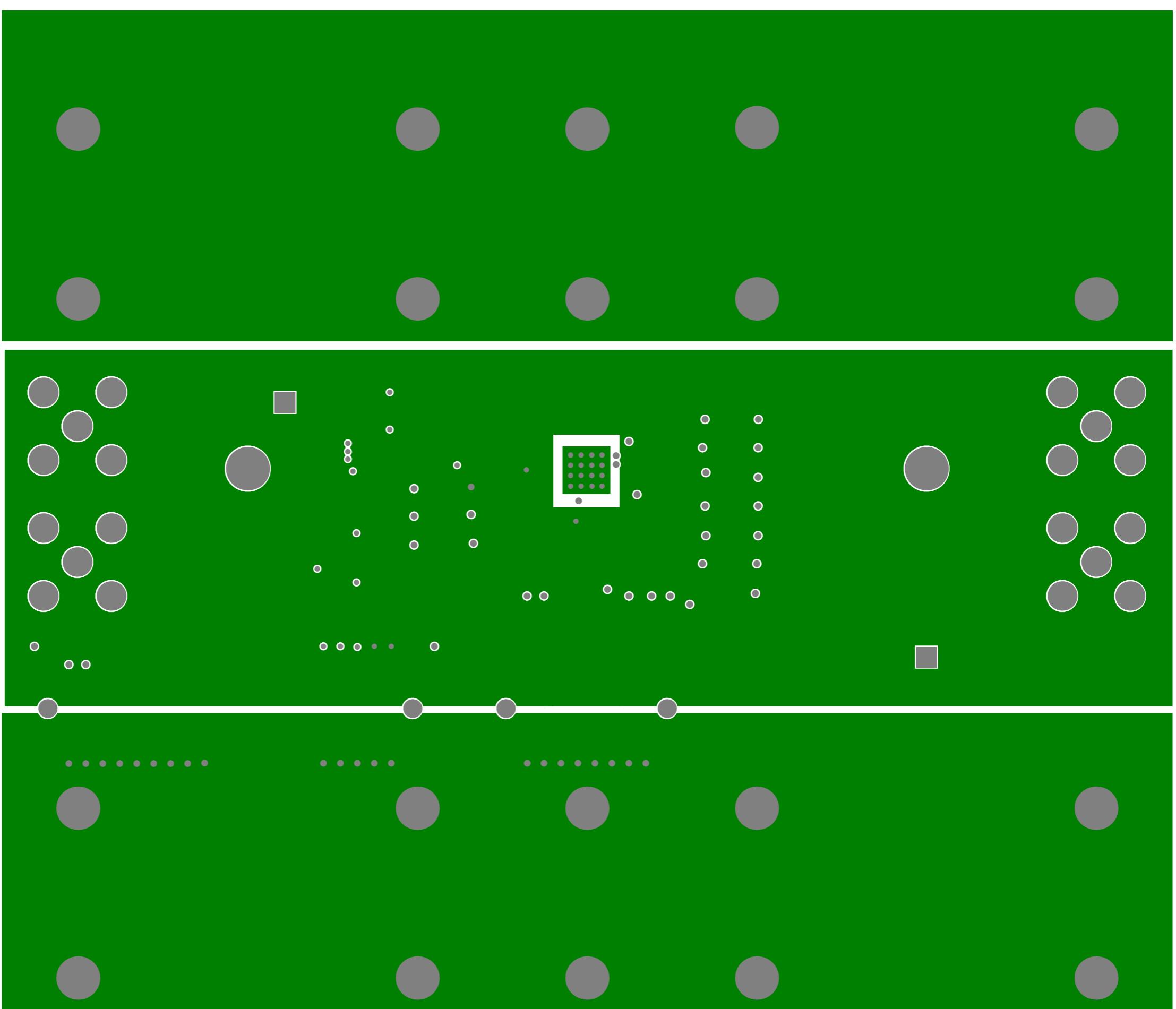


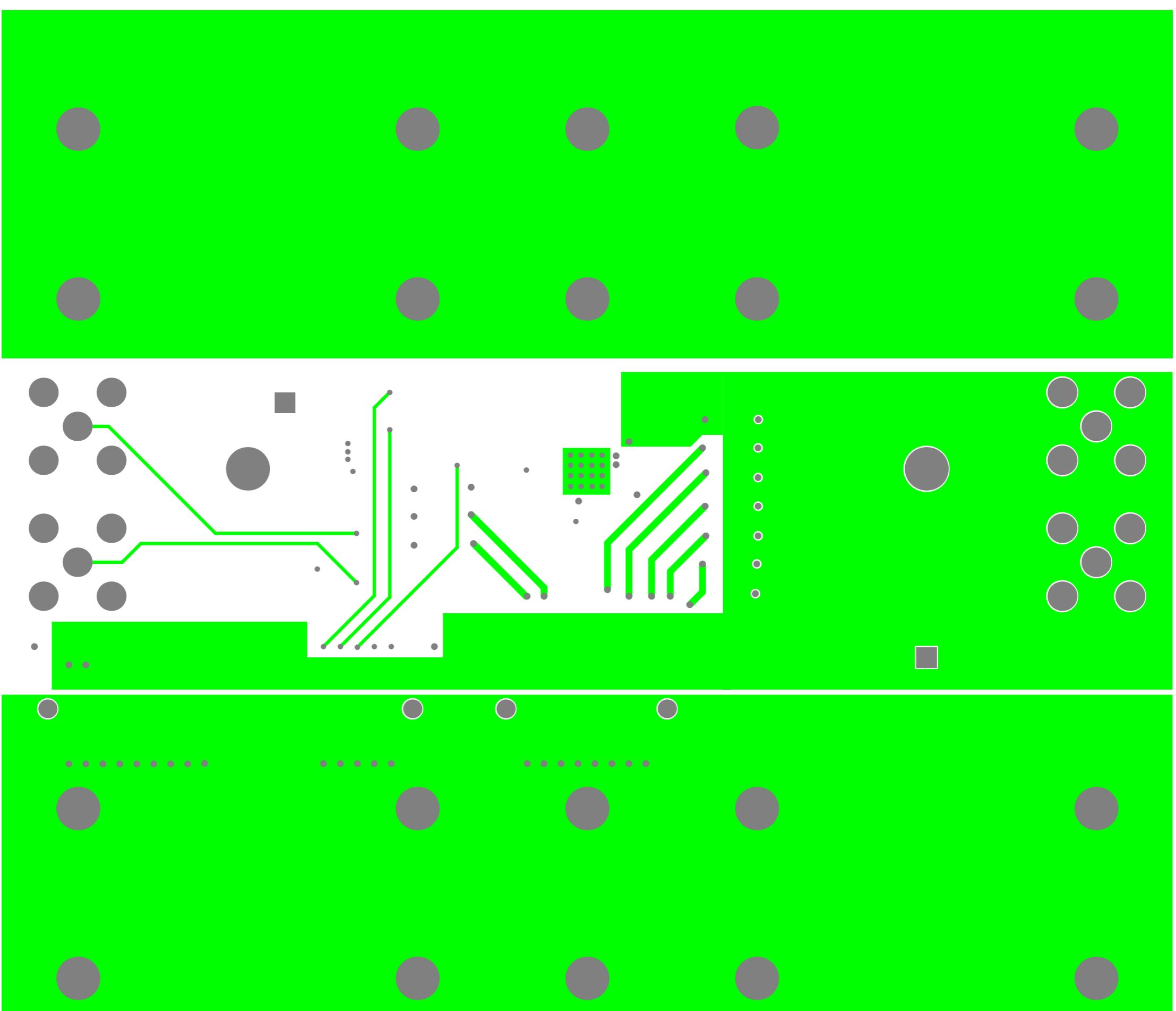


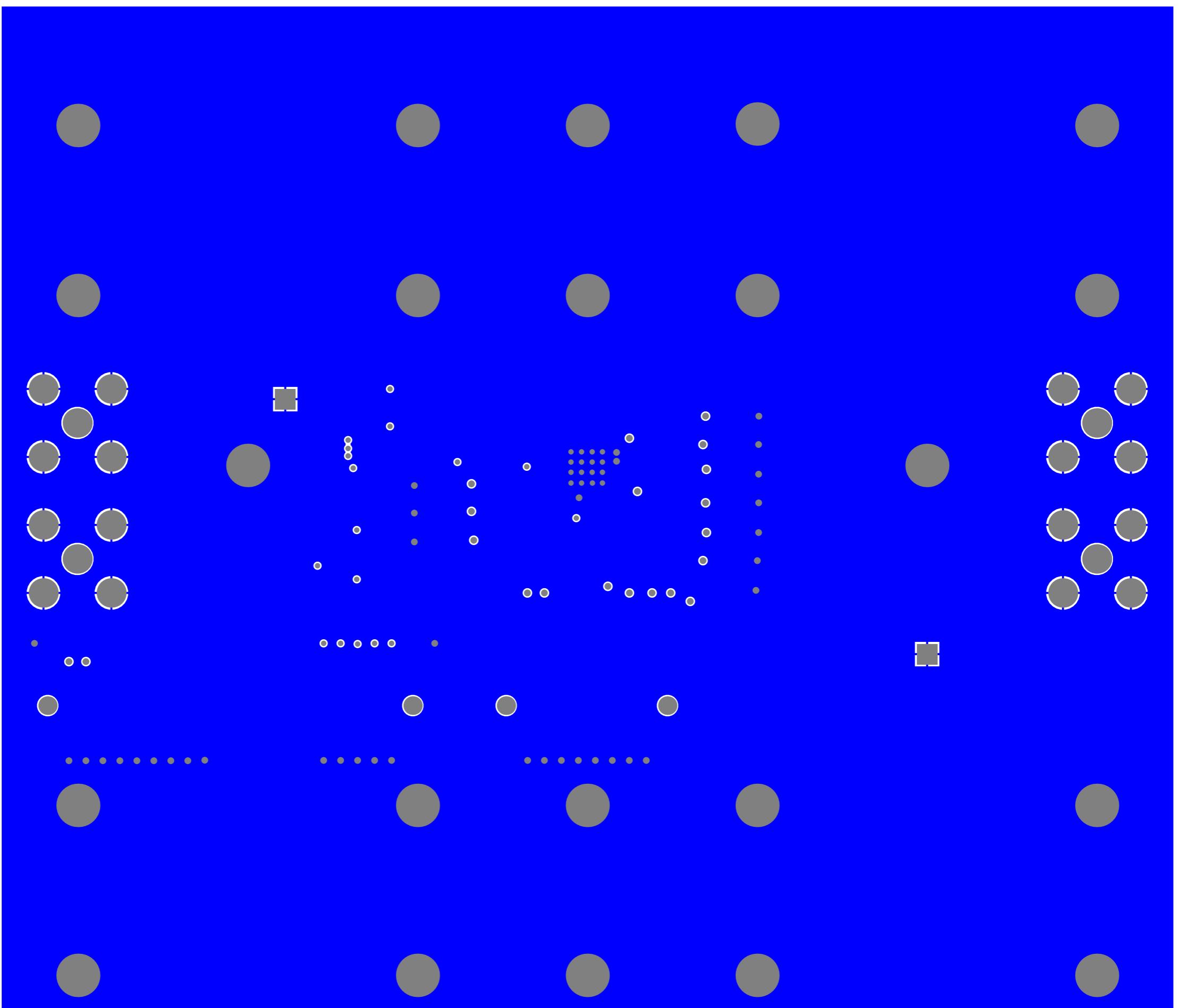


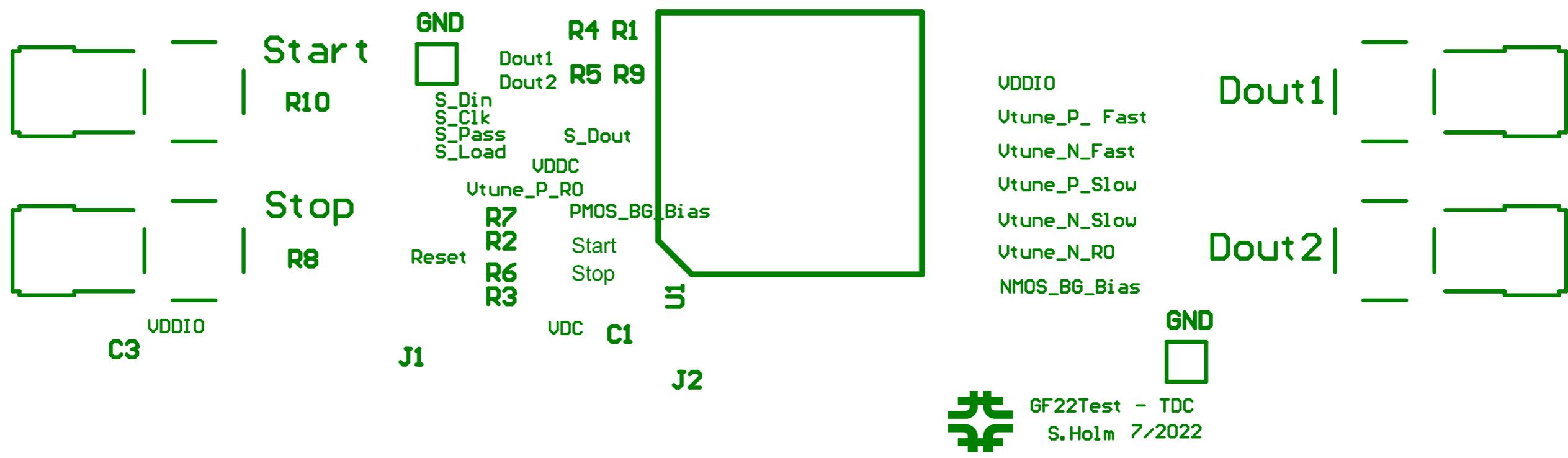


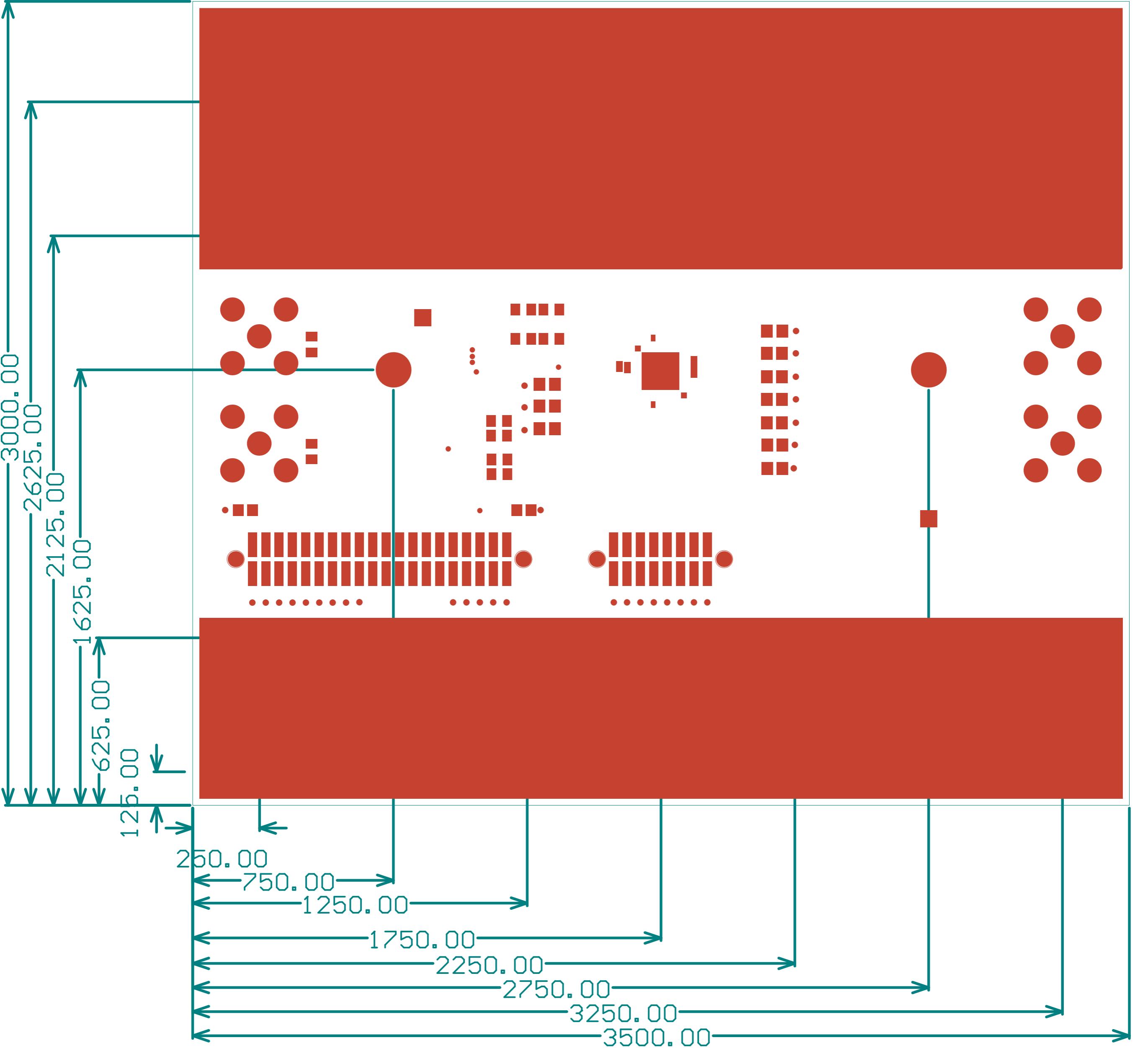


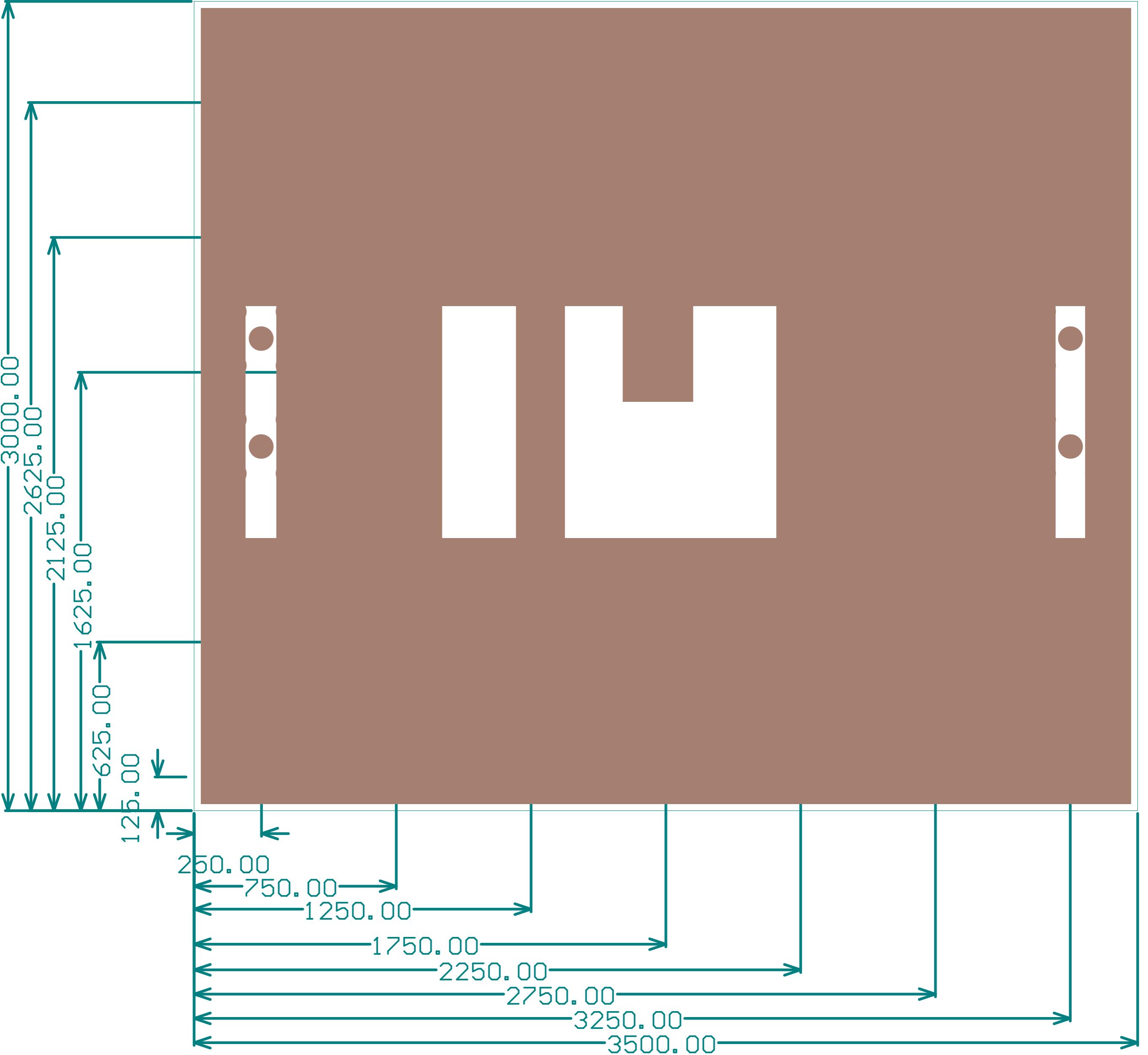


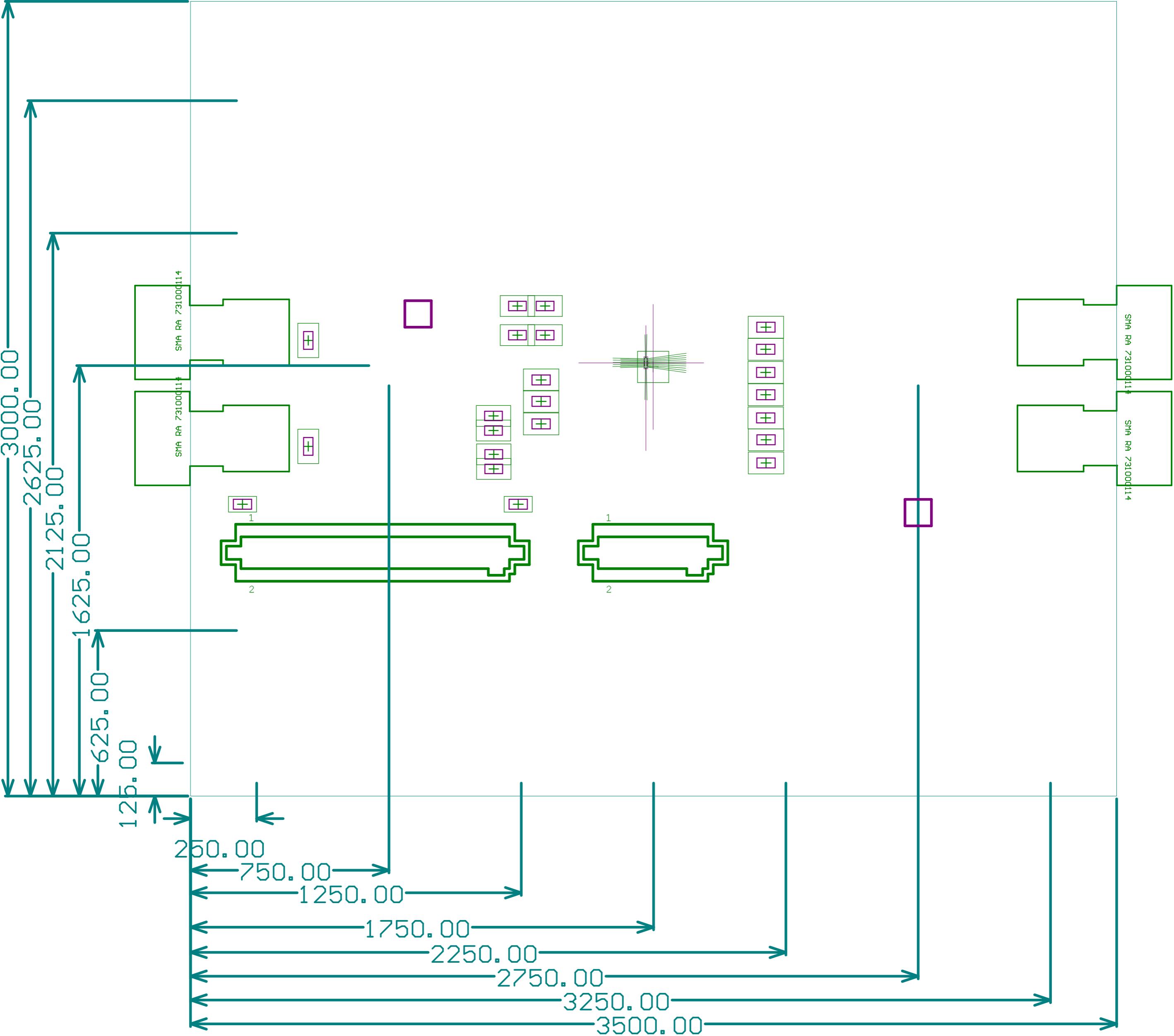


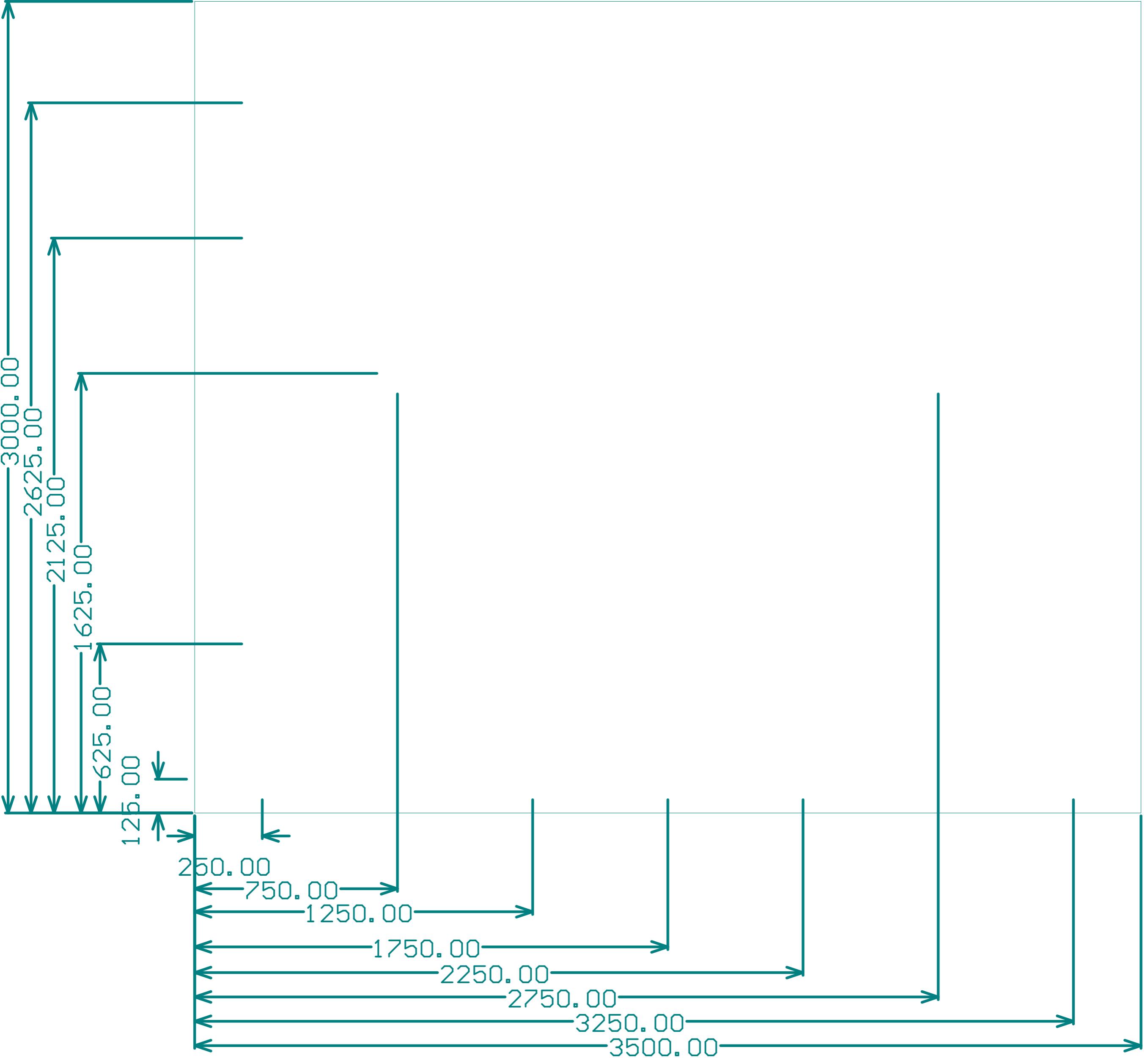


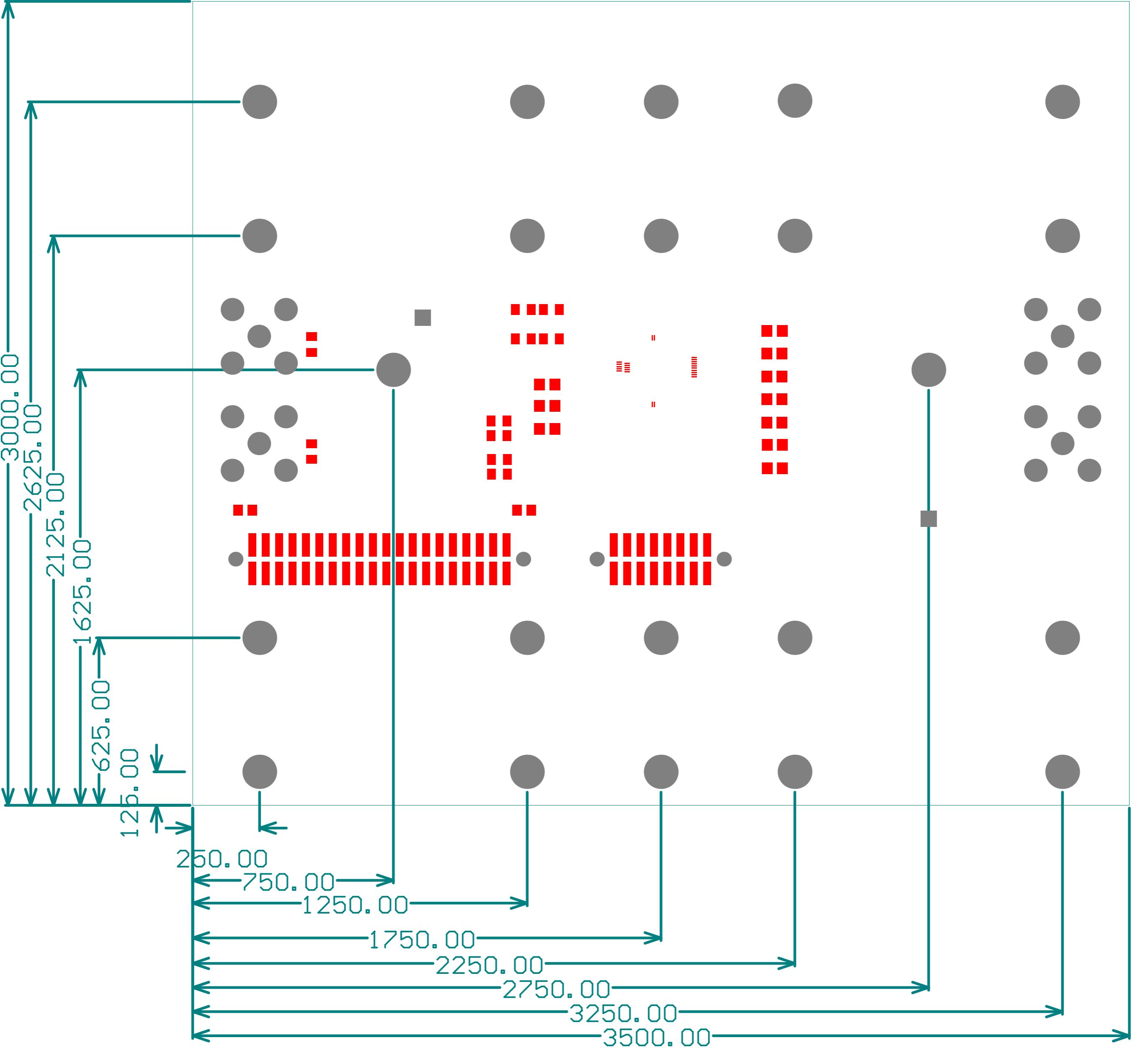


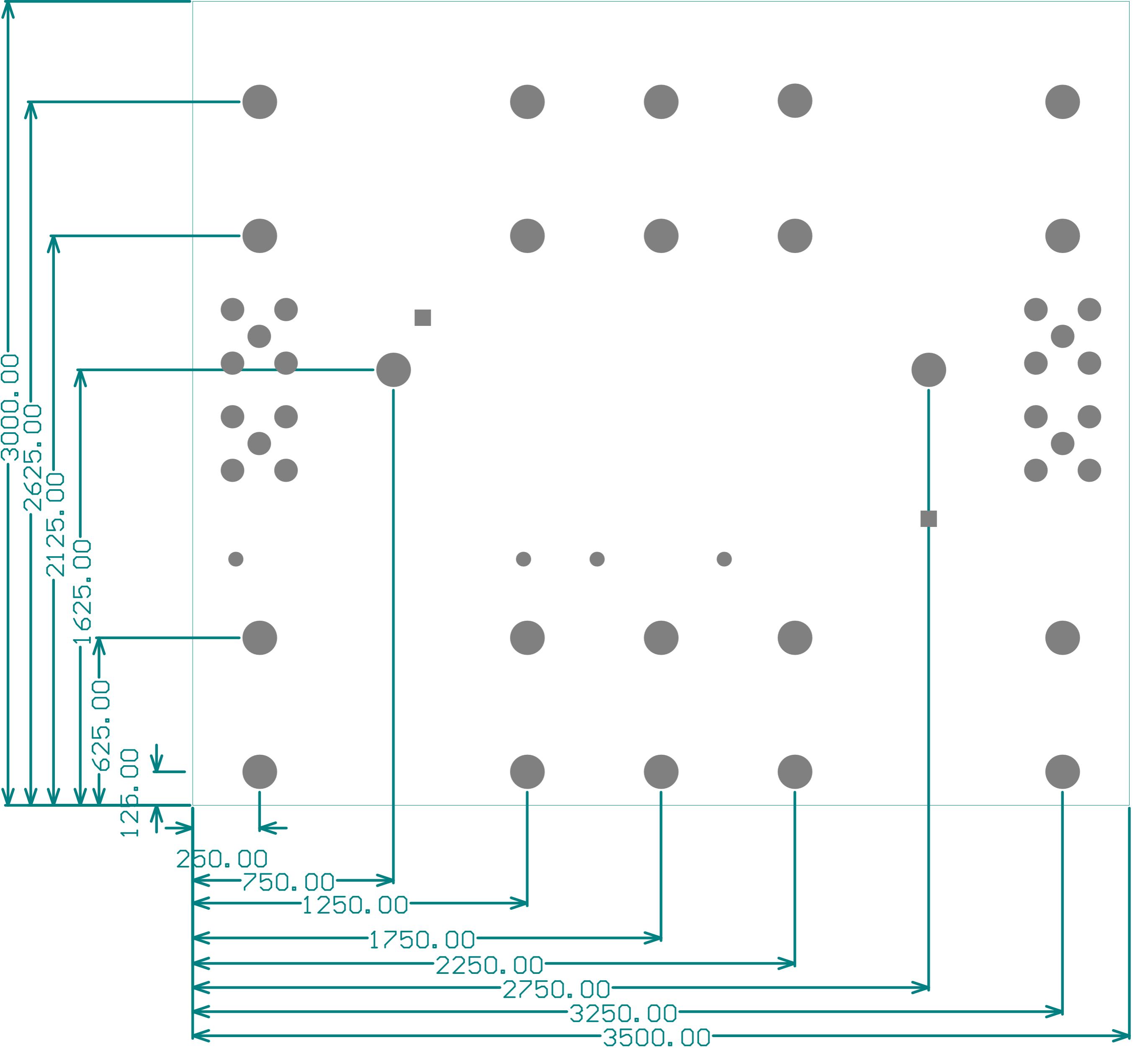


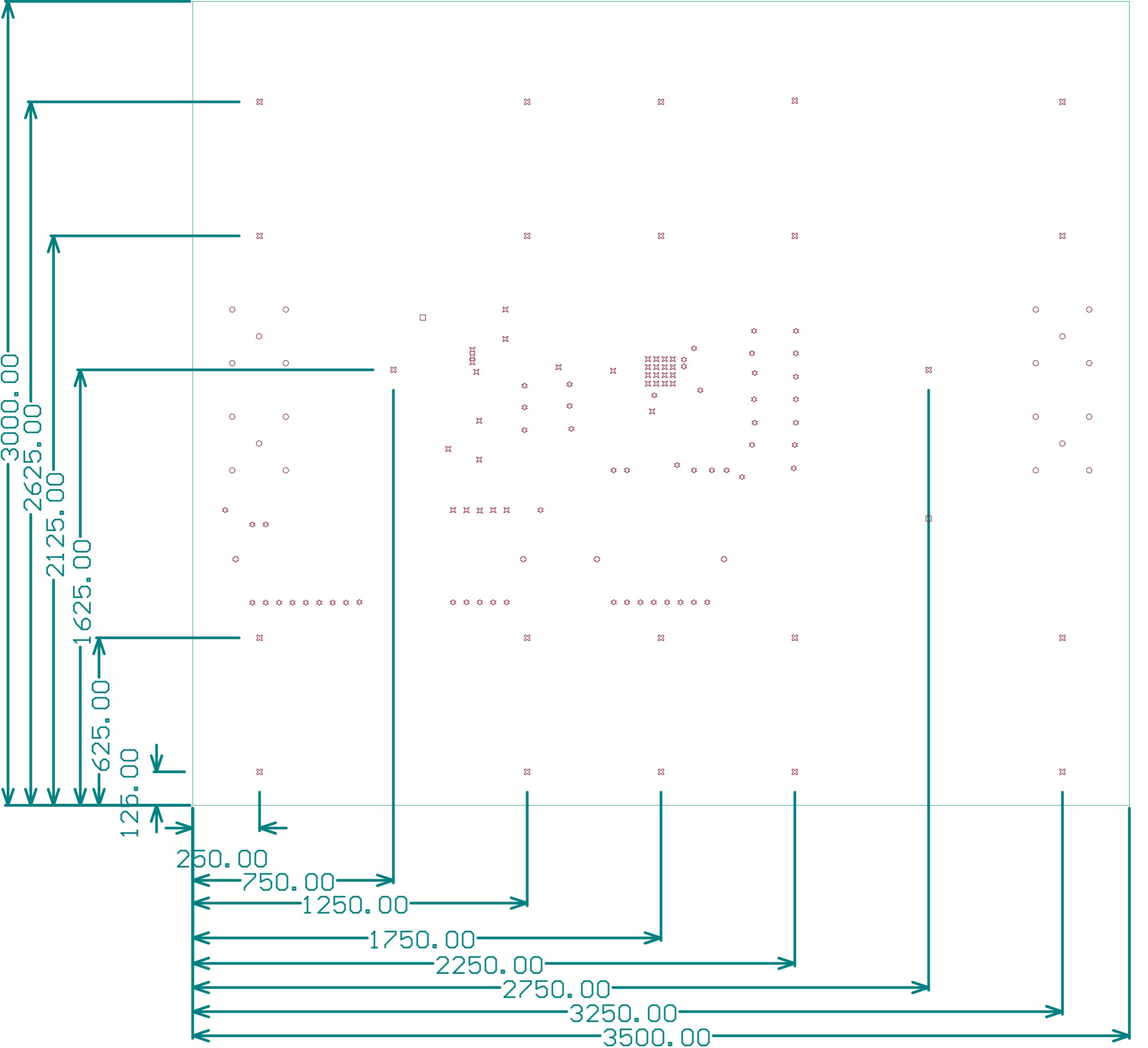


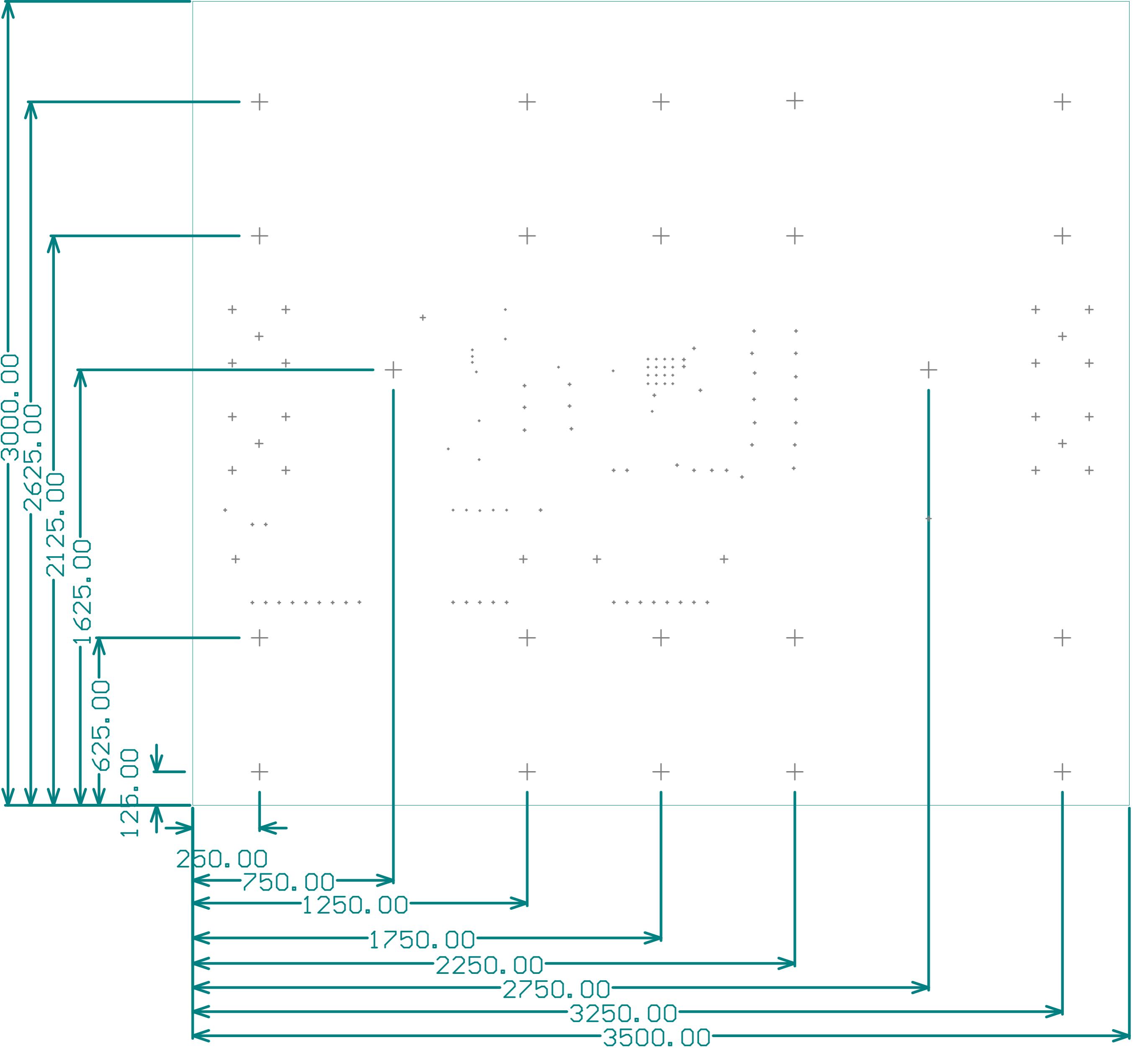












Line #	Name	Description	Designator	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	C0603T104K5RALTU		C1, C3	2	KEMET	C0603T104K5RALTU	Volume Production	Newark	96Y7093	0.84	1.68
	0.01uF		C2, C4, C5, C6, C7, C8, C9, C10, C11, C12	10							
	SFM-120-X2-XXX-D AJ		J1	1							
	SFM-108-X2-XXX-D AJ		J2	1							
	HCJ0603ZTOR00	RES SMD 0.0 OHM JUMPER 0603	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10	10	Stackpole Electronics	HCJ0603ZTOR00	Volume Production	Digi-Key	HCJ0603ZTOR00CT-ND	0.345	3.45
	SMA RA 731000114	SMA PCB mount RA Molex	P1, P2, P3, P4	4							
	TDC_GF2TEST1	TDC_GF2TEST1	U1	1							