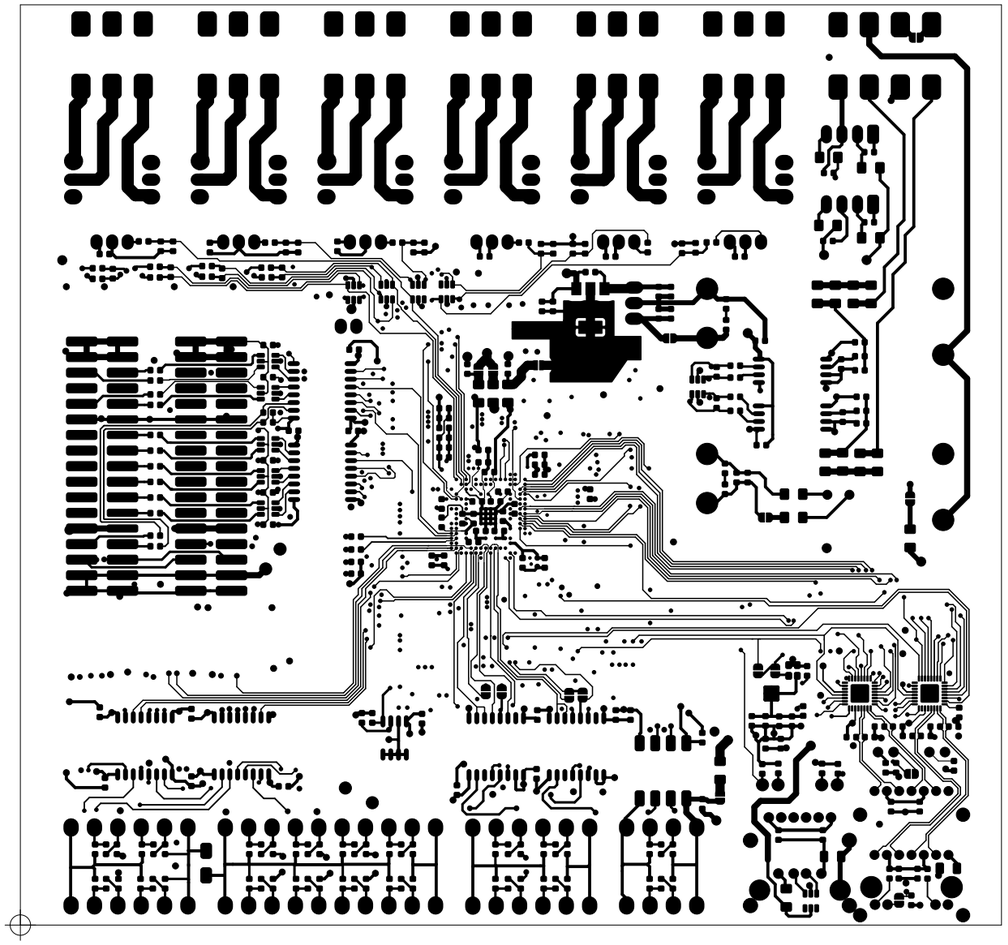

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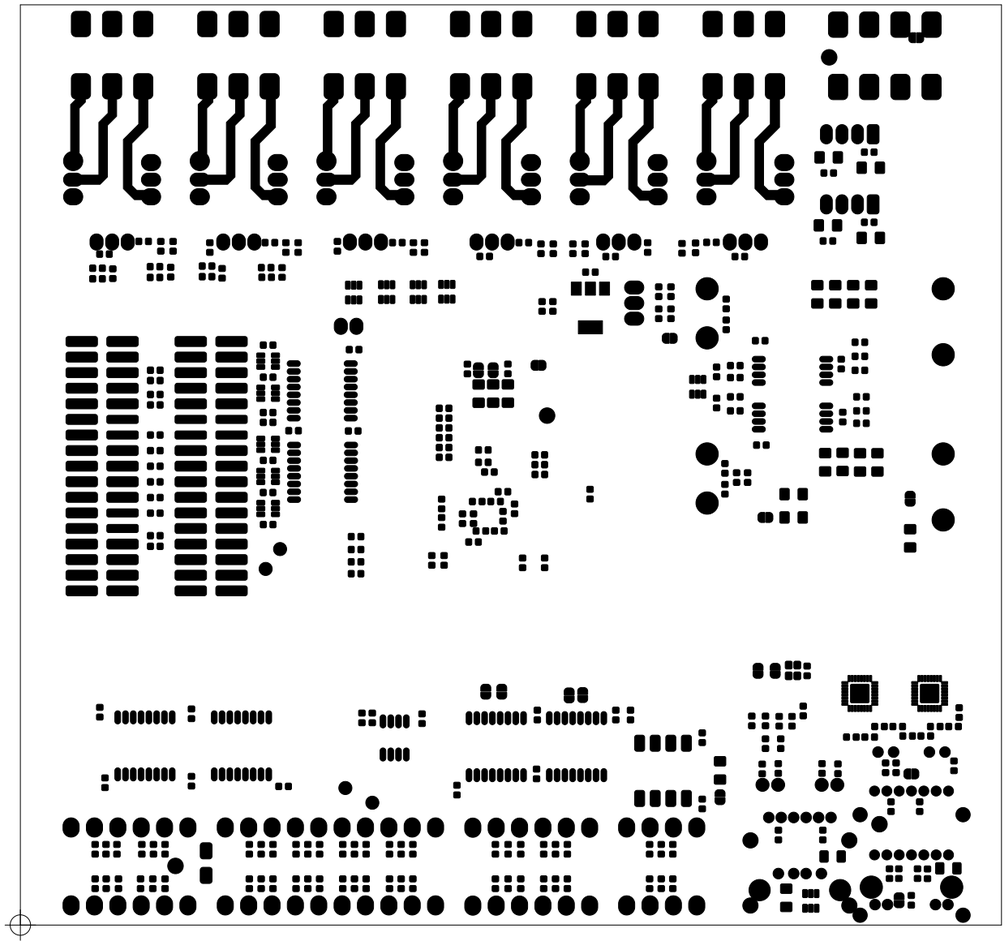
File: servo.kicad_pcb

Title: Servo Drive

Size: A3	Date: 2020-03-03	**Rev: 1.0**
KiCad E.D.A. kicad 5.0.2+dfsg1-1		Id: 1/1



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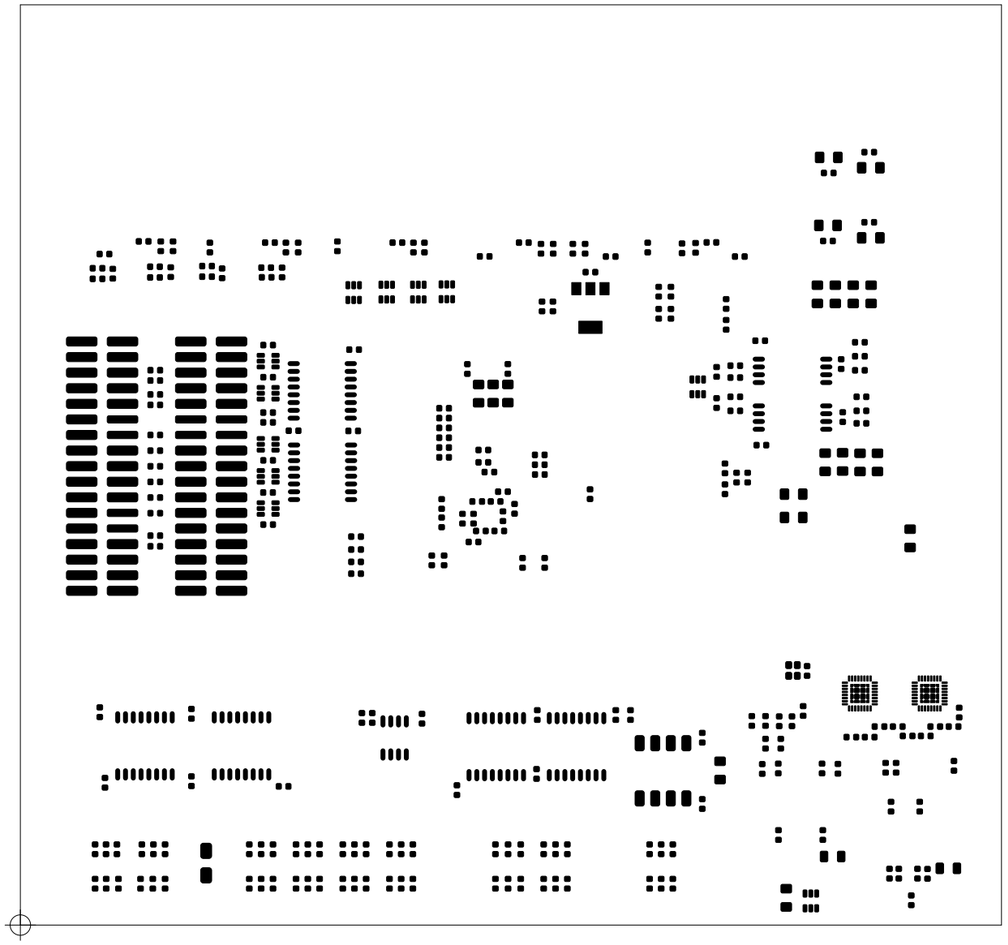

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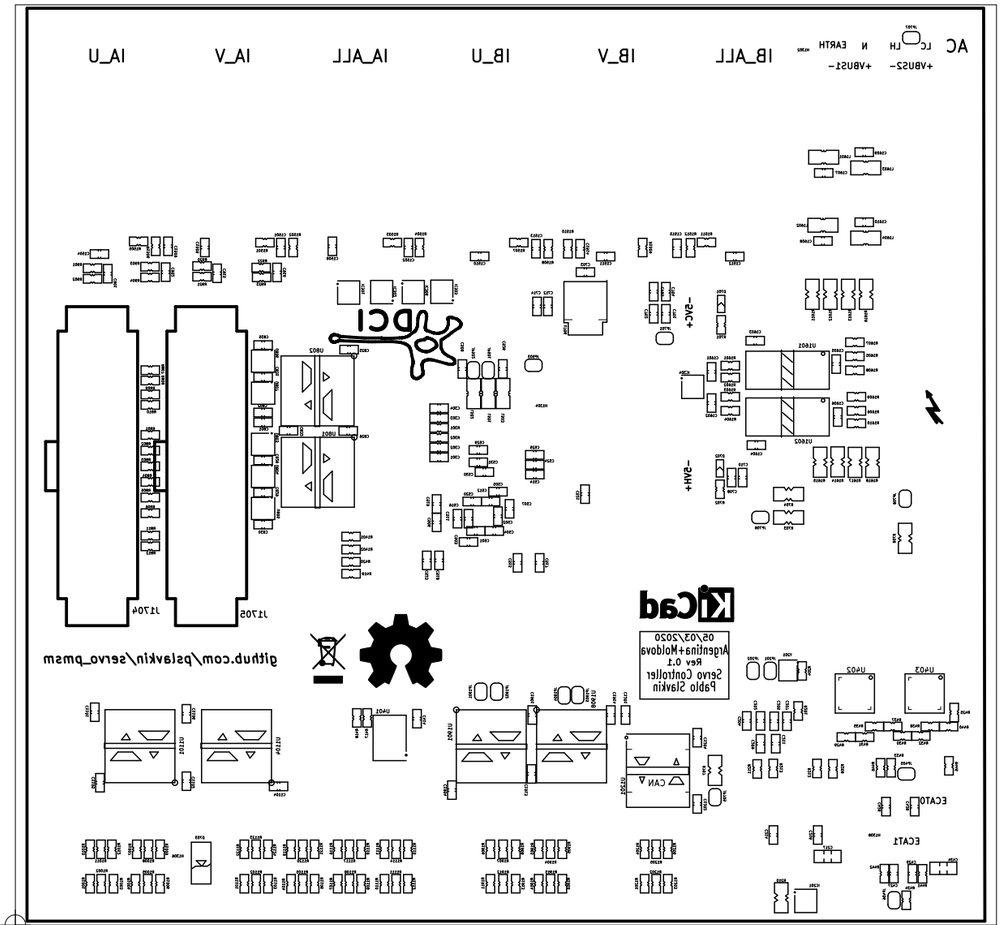

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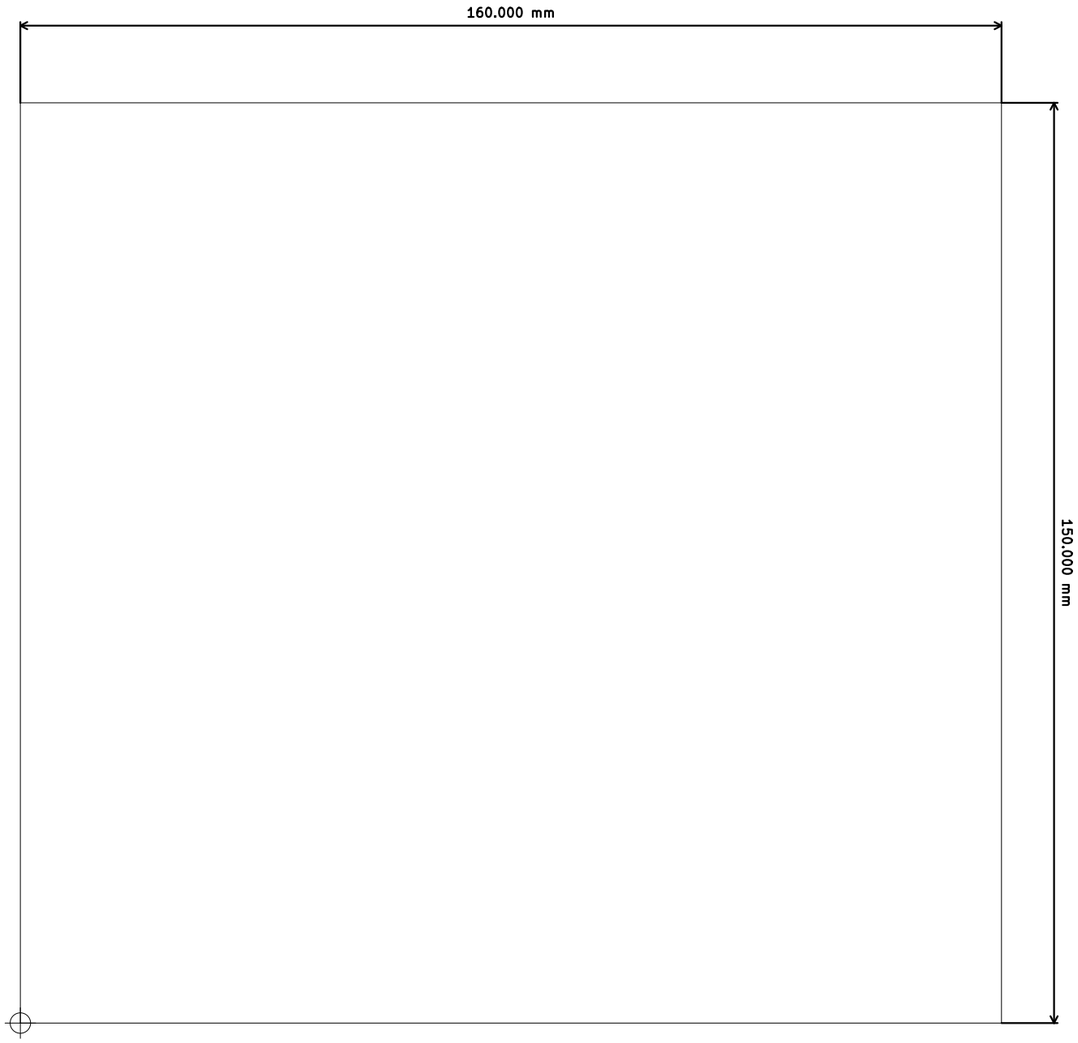

STACKUP				
Layer	Function	Material	Thickness	file name [*-]
1	top adhesive			F.Adhes.gbr
2	top paste			F.Paste.gbr
3	top silkscreen	white tint		F.SilkS.gbr
4	top solder mask	solder resist	20 um	F.Mask.gbr
5	top copper	cooper	35 um	F.Cu.gbr
6	dielectric 1	FR-4		
7	internal plane 2	cooper	35 um	GND.Cu.gbr
8	dielectric 2	FR-4		
9	signal layer 3	cooper	35 um	In3.Cu.gbr
10	dielectric 3	FR-4		
11	signal layer 4	cooper	35 um	In4.Cu.gbr
12	dielectric 4	FR-4		
13	internal plane 5	cooper	35 um	VCC.Cu.gbr
14	dielectric 5	FR-4		
15	bottom cooper	cooper	35 um	B.Cu.gbr
16	bottom solder mask	solder resist	20 um	B.Mask.gbr
17	bottom silkscreen	white tint		B.SilkS.gbr
18	board edge cuts			Edge.Cuts.gbr
19	PTH holes			PTH.drl
20	NPTH holes			NPTH.drl
21	slotted holes			Dwgs.User.gbr
22	board information			Cmts.User.gbr
23	footprint position top			top.pos
24	footprint position bottom			bottom.pos

information		
min track width	0.1524 mm	6 mils
min track to track clearance	0.1524 mm	6 mils
min track to pad clearance	0.0953 mm	3.7 mils
min pad to pad clearance	0.1238 mm	4.8 mils
min via diameter	0.457 mm	18 mils
min via drill	0.3 mm	12 mils
metal registration tolerance	+- 0.05 mm	
holes registration tolerance	+- 0.05 mm	
holes size tolerance	+- 0.05 mm	
PTH copper thickness	20 to 30 um	
silkscreen top color	white	
silkscreen bottom color	white	
solder resist color	blue semi gloss	
board material	FR-4 High Tg	
board thickness	1.6 mm	
notes the intention of the board is to fit an 6mils/6mils standard but it has smaller clearance ONLY near BGA on circle pad to circle pad and circle pad to track clearance.If it obey to change the standard I'd change theese reducing drill holes to 0.2		

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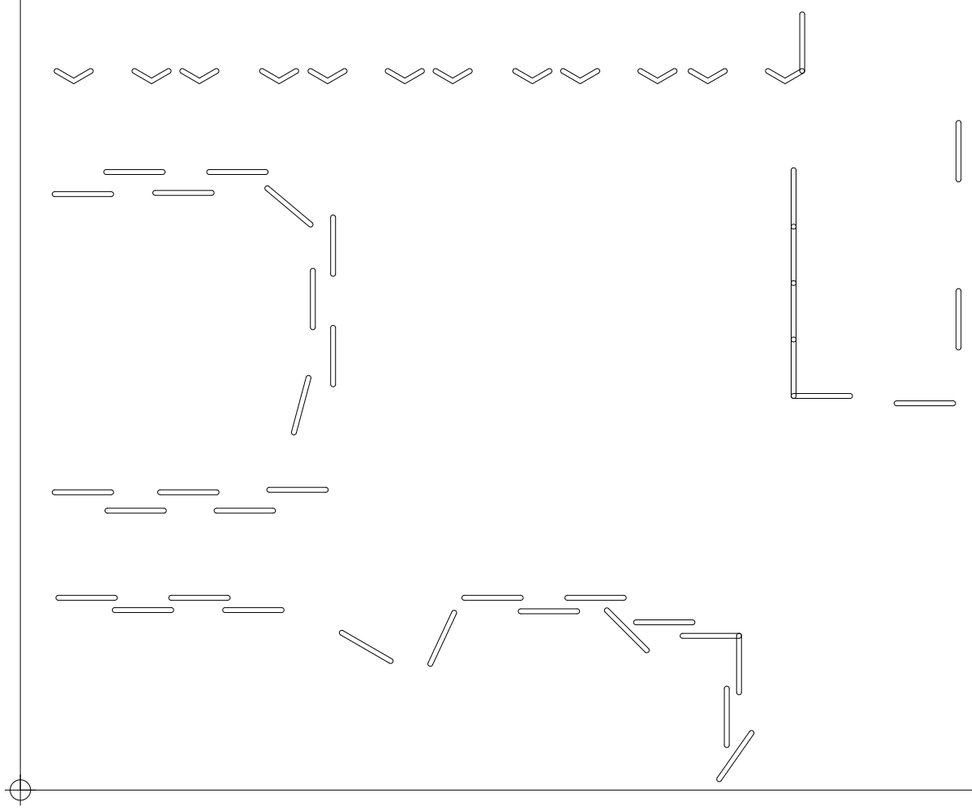
these sloted holes on Dwgs.User
layer are NPTH milled holes 0.8mm width



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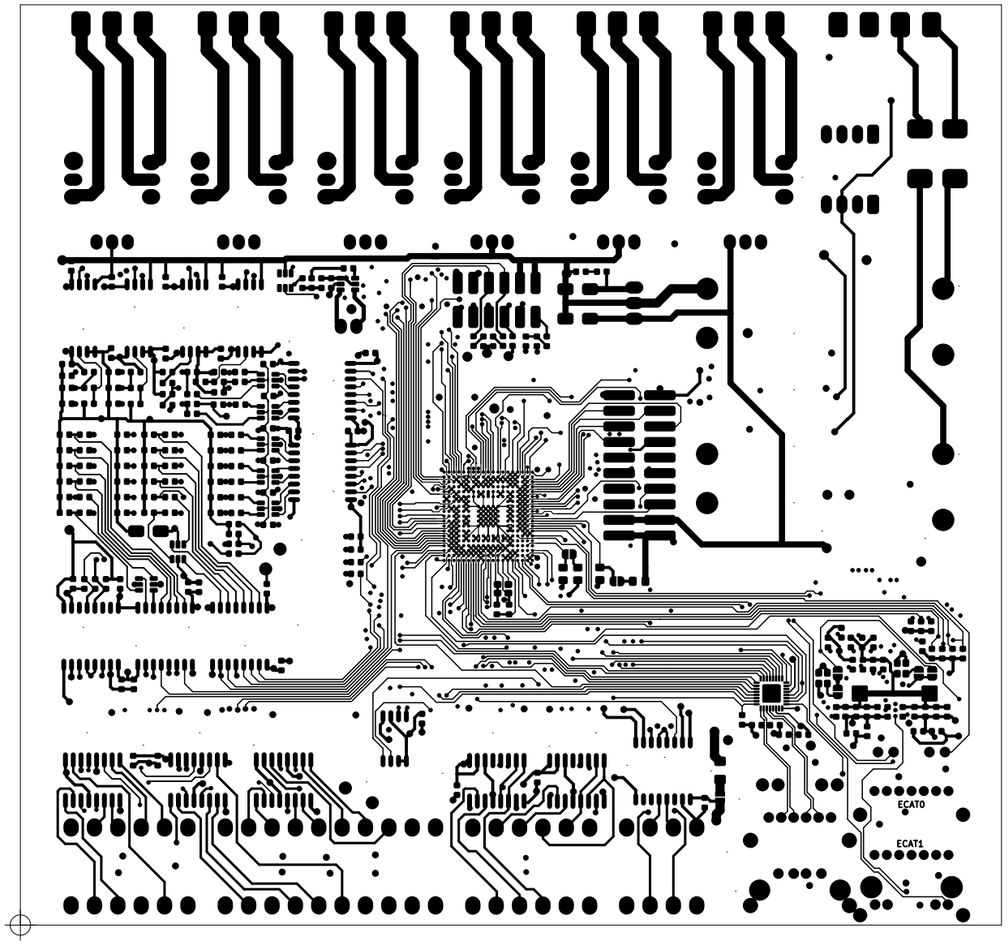

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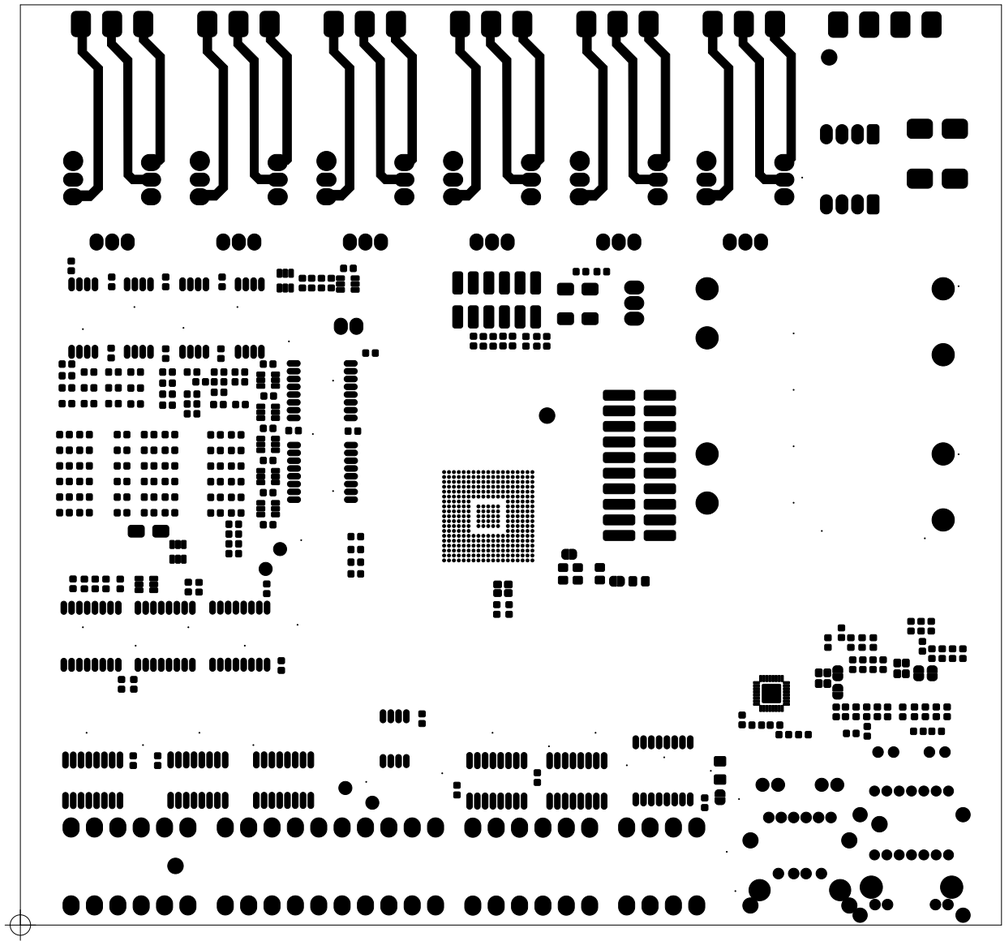

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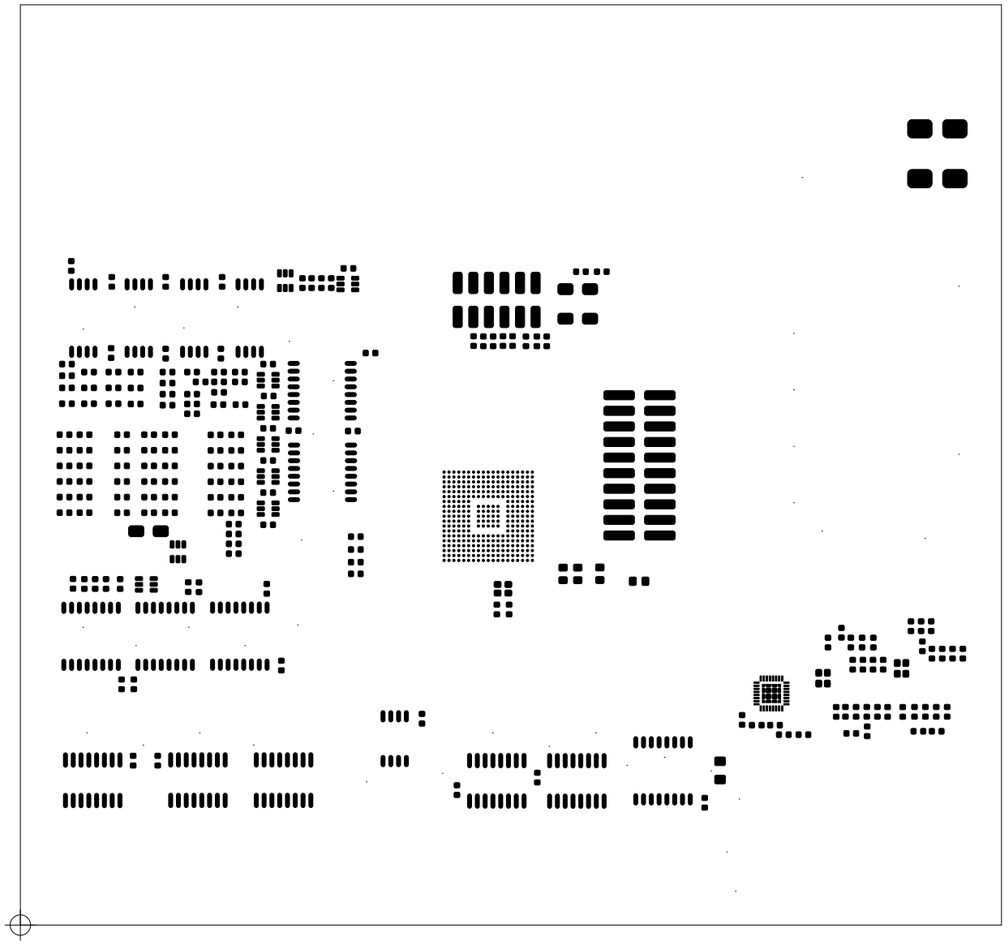

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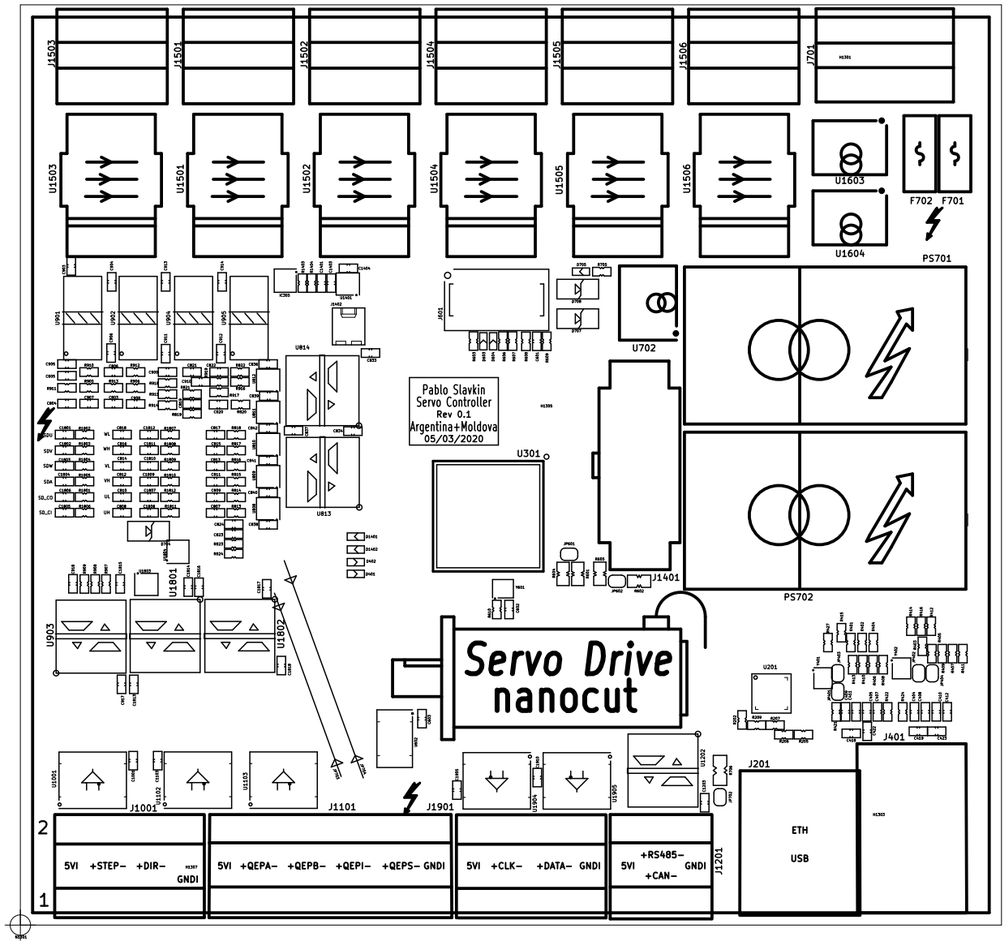

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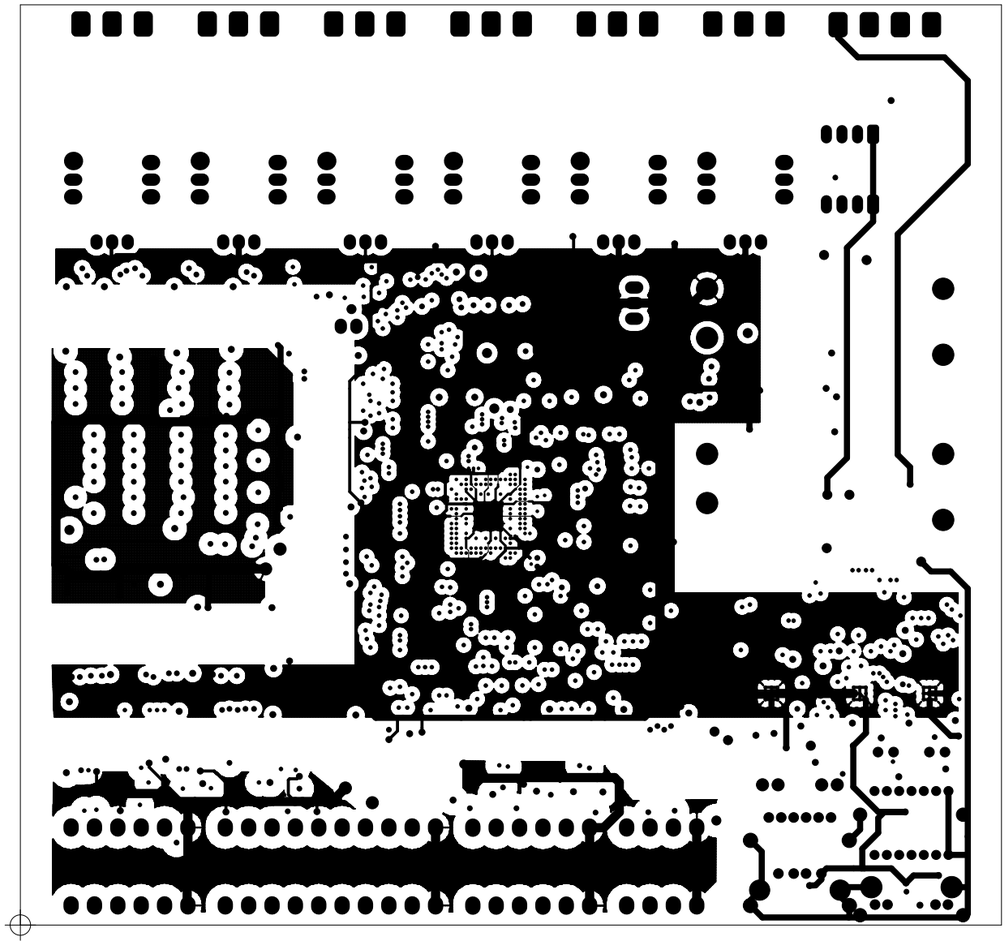

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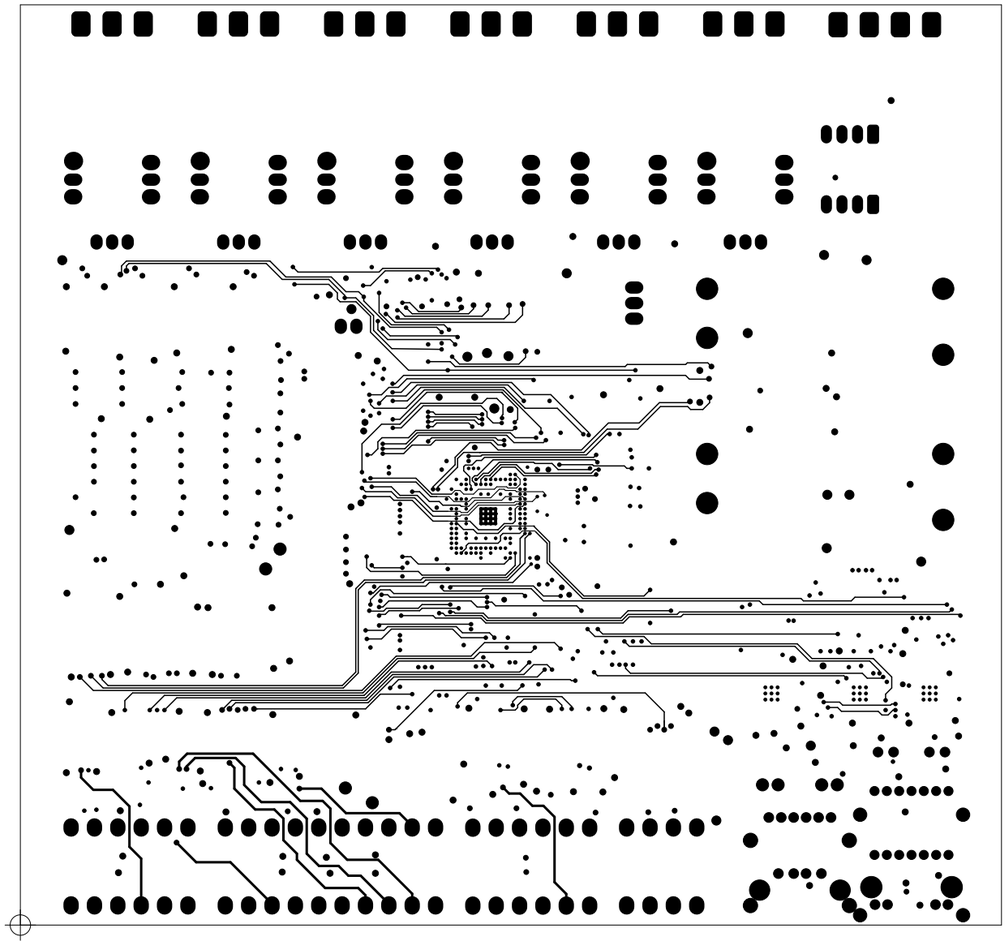

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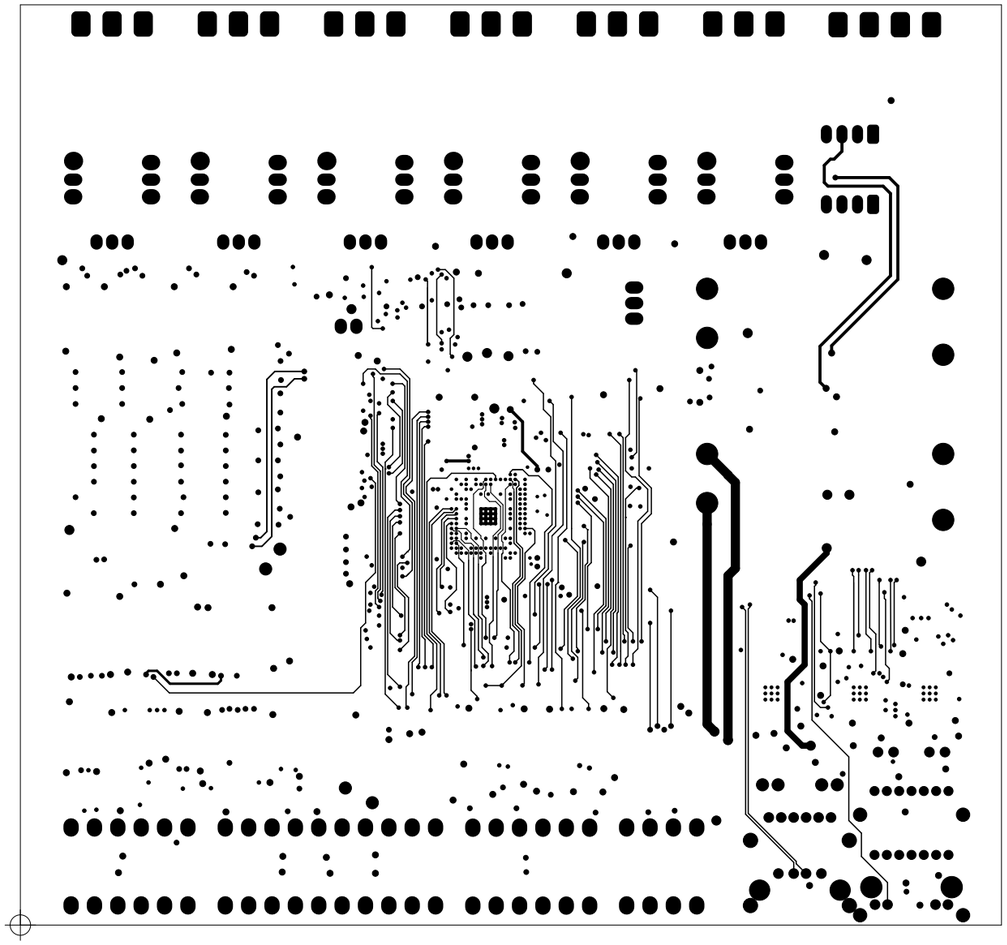

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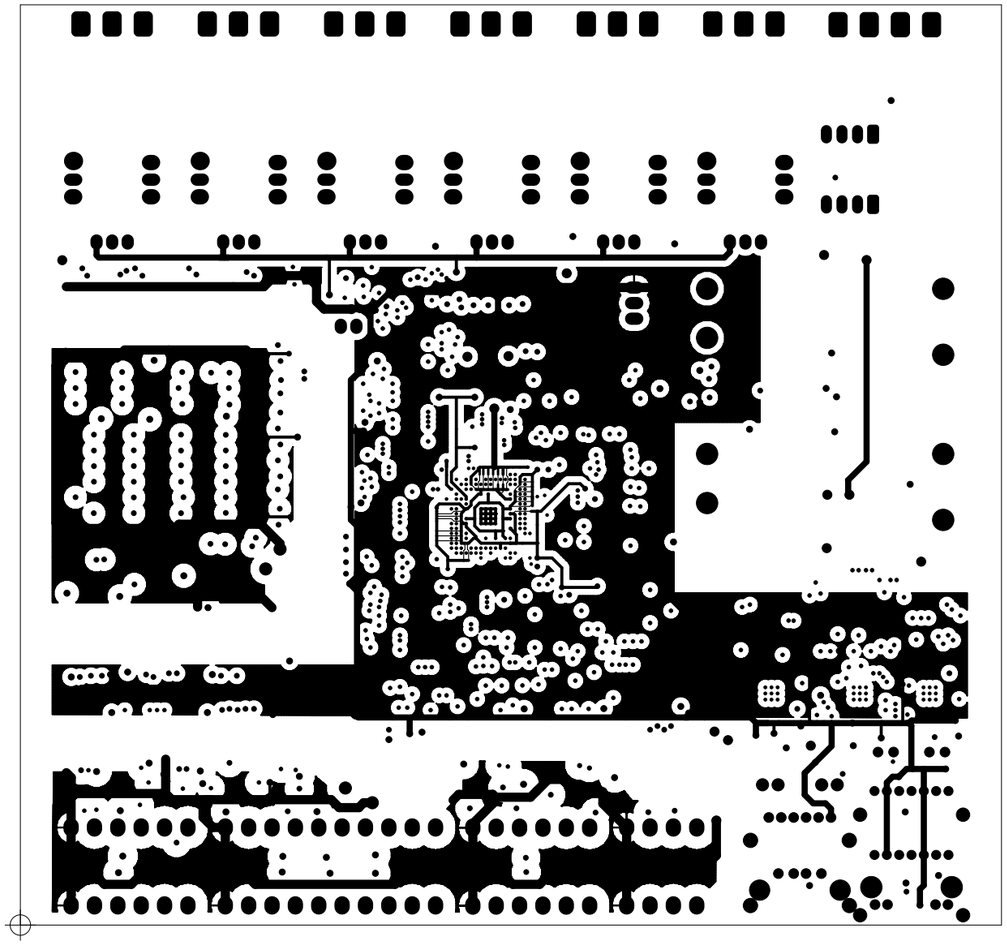

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