

Transmission Line Structure Table

Impedance Id	Transmission Line	Target Impedance	Calculated Impedance	Trace layer	Wide Trace Width	Narrow Trace Width	Gap	Reference layers	Substack	Clearance	Target Tolerance
1	Edge-Coupled Coated Microstrip	90	90.00	Top Layer	0.20mm	0.20mm	0.25mm	Ground 1	Board Layer Stack	0.13mm	10%
2	Edge-Coupled Coated Microstrip	90	90.00	Bottom Layer	0.20mm	0.20mm	0.25mm	Ground 2	Board Layer Stack	0.13mm	10%

NOTES (Unless otherwise specified)


PCB MATERIAL	FR4 or similar
SOLDER	ENIG per IPC-4552
WASHABLE	YES
COPPER WEIGHT FOR OUTER LAYERS	1oz
PCB PLATING	ENIG per IPC-4552
VIA SIZE	See Drill Table
VIA IN PAD	No
VIA FILL	No
VIA TENTING	Both Sides
SUPPLIER DATE CODE FORMAT	YY/MM
SOLDER MASK COLOR	GRAY
SILK SCREEN COLOR	WHITE
ACCEPTANCE	IPC-A-600 Class II
PCB FINISH	IPC-4552

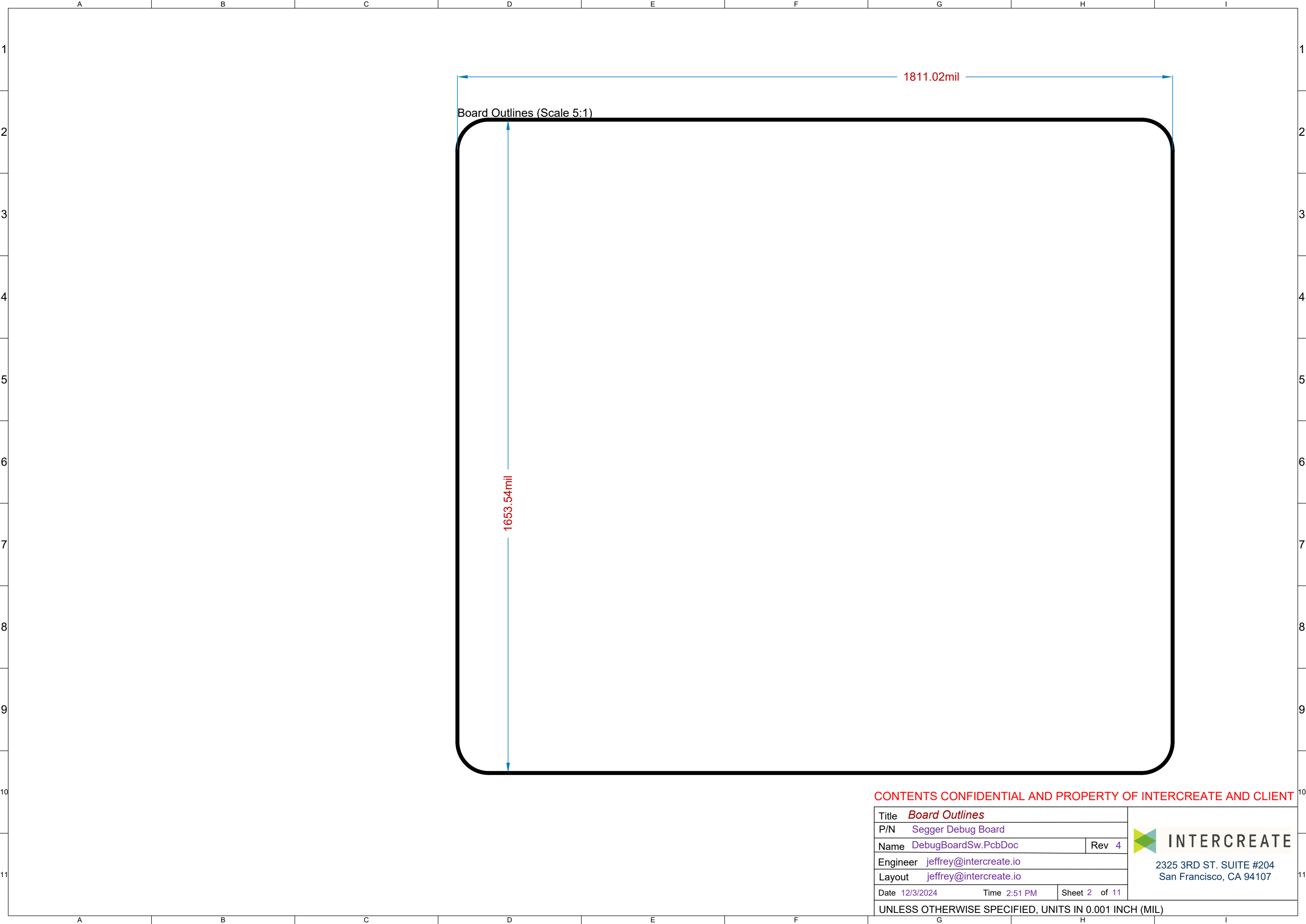
Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber	Dk
	Top Overlay			Legend	GTO	
Surface Material	Top Solder	0.010mm	Solder Resist	Solder Mask	GTS	3.5
Copper	Top Layer	0.036mm		Signal	GTL	
Prepreg		0.100mm	PP-006	Dielectric		4.1
CF-004	Ground 1	0.036mm		Signal	G1	
		1.776mm	FR-4	Dielectric		4.8
CF-004	Ground 2	0.036mm		Signal	G2	
Prepreg		0.100mm	PP-006	Dielectric		4.1
Copper	Bottom Layer	0.036mm		Signal	GBL	
Surface Material	Bottom Solder	0.010mm	Solder Resist	Solder Mask	GBS	3.5
	Bottom Overlay			Legend	GBO	

Total thickness: 2.140mm


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Title <b>FABRICATION DRAWING</b>			 <b>INTERCREATE</b>  2325 3RD ST. SUITE #204 San Francisco, CA 94107
P/N Segger Debug Board			
Name DebugBoardSw.PcbDoc	Rev 4		
Engineer jeffrey@intercreate.io			
Layout jeffrey@intercreate.io			
Date 12/3/2024	Time 2:51 PM	Sheet 1 of 11	
UNLESS OTHERWISE SPECIFIED, UNITS IN 0.001 INCH (MIL)			

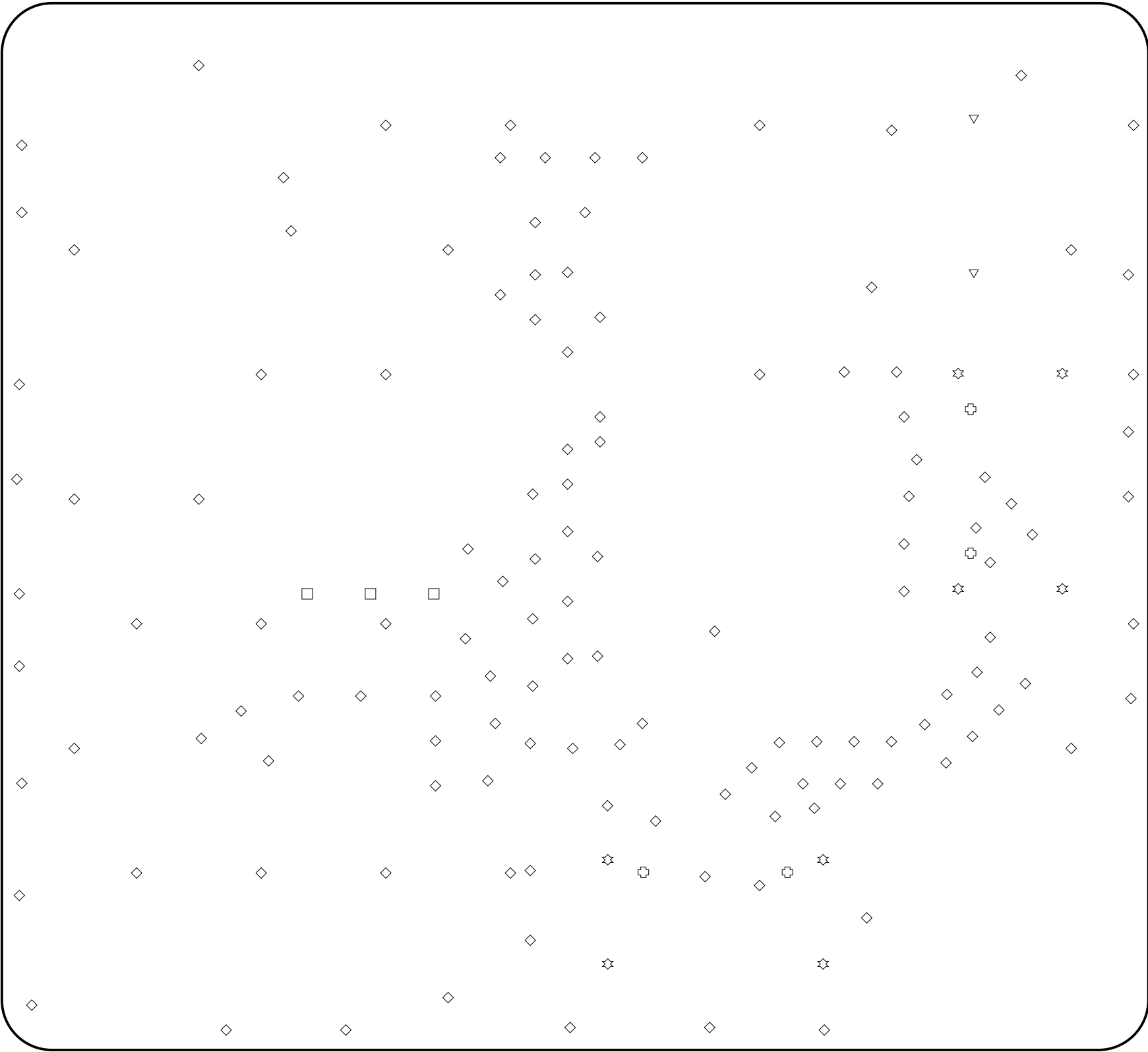


Board Outlines (Scale 5:1)

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Title <i>Board Outlines</i>			 <b>INTERCREATE</b> 2325 3RD ST. SUITE #204 San Francisco, CA 94107
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Engineer <i>jeffrey@intercreate.io</i>			
Layout <i>jeffrey@intercreate.io</i>			
Date <i>12/3/2024</i>	Time <i>2:51 PM</i>	Sheet <i>2</i> of <i>11</i>	
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Drill Drawing View (Scale 5:1)

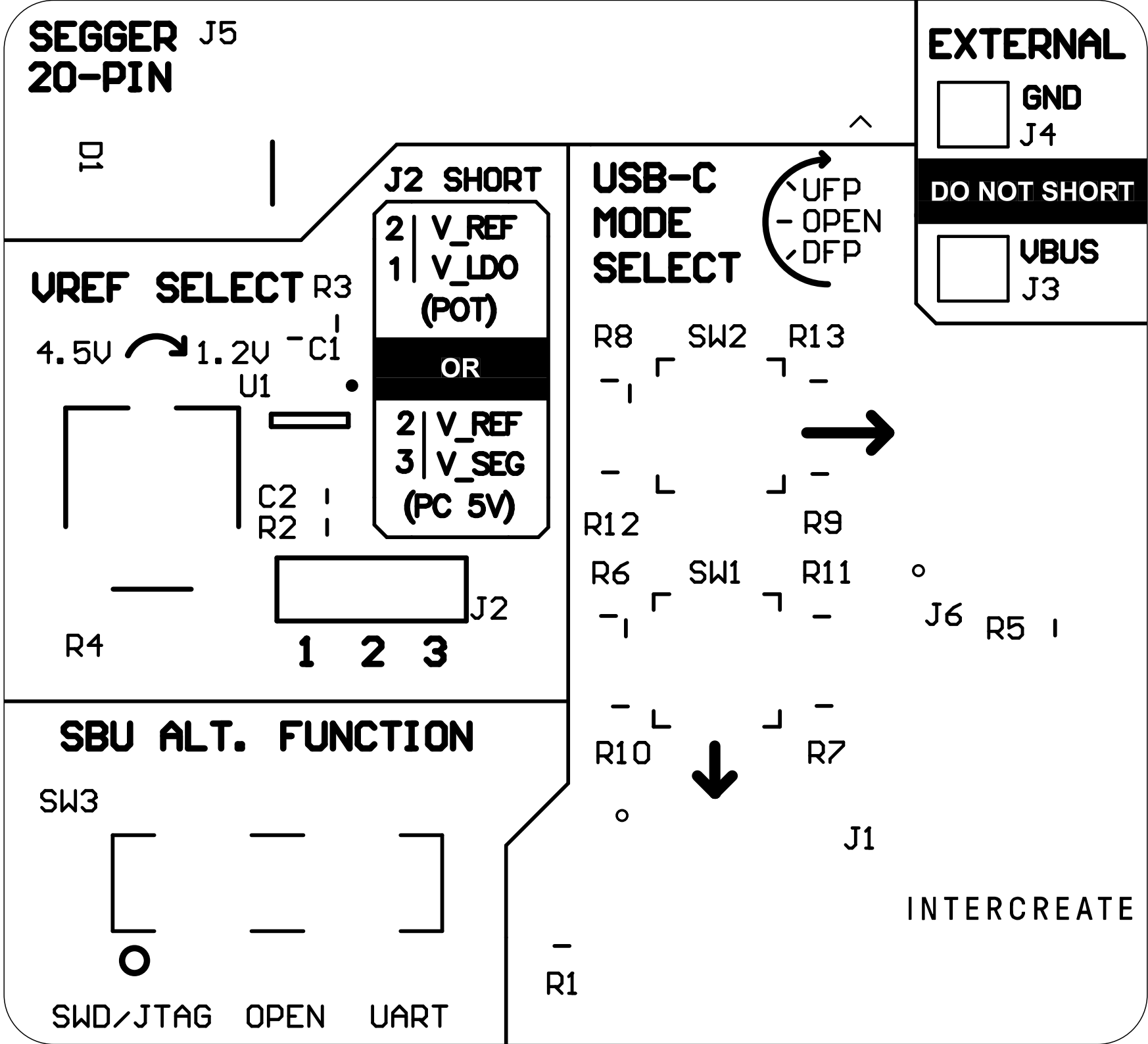


Drill Table			
Symbol	Count	Hole Size	Plated
◇	130	10.000mil	Plated
☆	8	23.622mil	Plated
⊞	4	25.591mil	Non-Plated
▽	2	38.976mil	Plated
□	3	43.307mil	Plated
147 Total			

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Title <b>DRILL DRAWING</b>			 <div>INTERCREATE</div> <div>2325 3RD ST. SUITE #204 San Francisco, CA 94107</div>
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Top Overlay (Scale 5:1)



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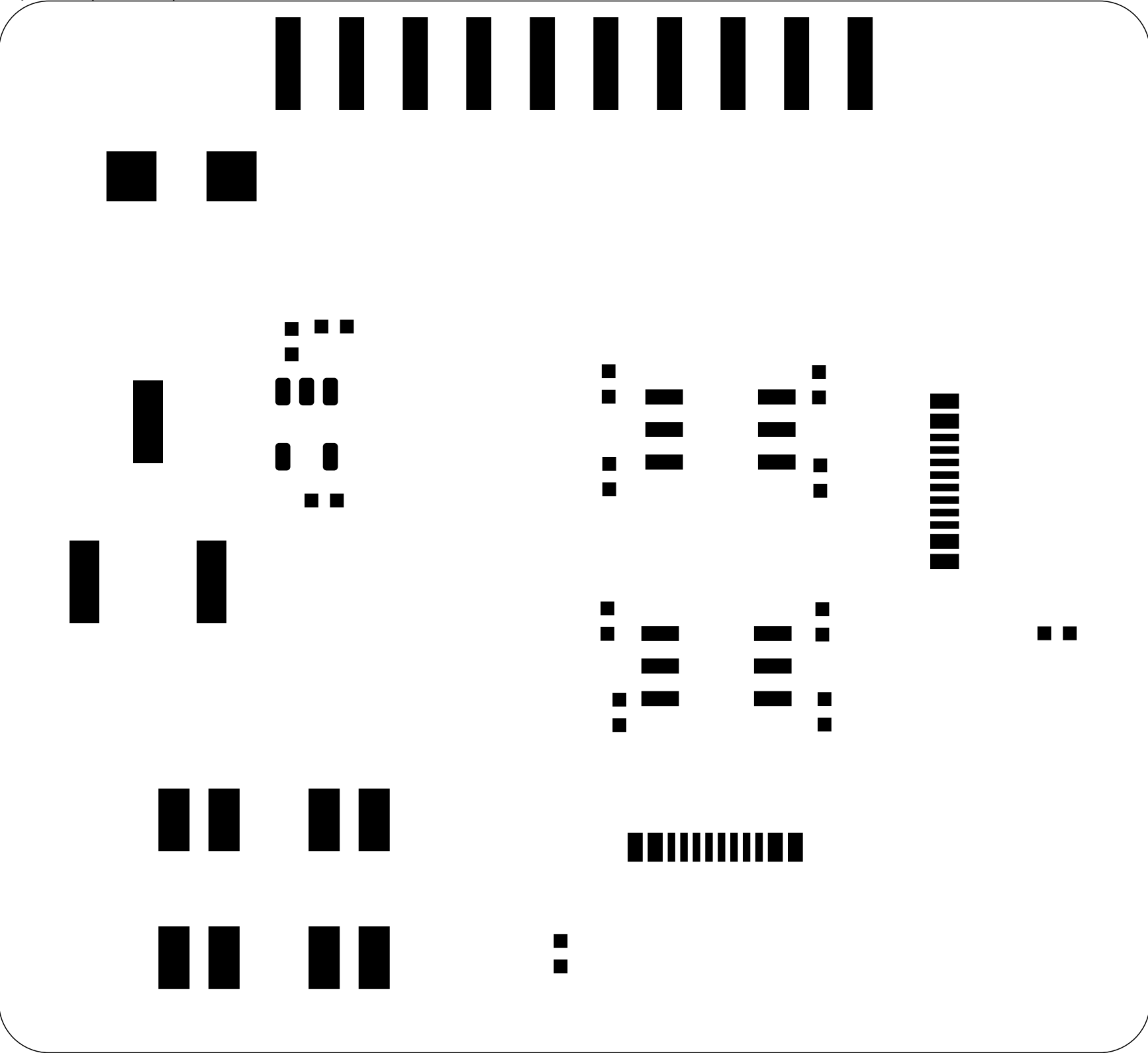
Title <b>TOP LAYER SILKSCREEN</b>		
P/N <b>Segger Debug Board</b>		
Name <b>DebugBoardSw.PcbDoc</b>		Rev <b>4</b>
Engineer <b>jeffrey@intercreate.io</b>		
Layout <b>jeffrey@intercreate.io</b>		
Date <b>12/3/2024</b>	Time <b>2:51 PM</b>	Sheet <b>4</b> of <b>11</b>
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**INTERCREATE**

2325 3RD ST. SUITE #204  
San Francisco, CA 94107

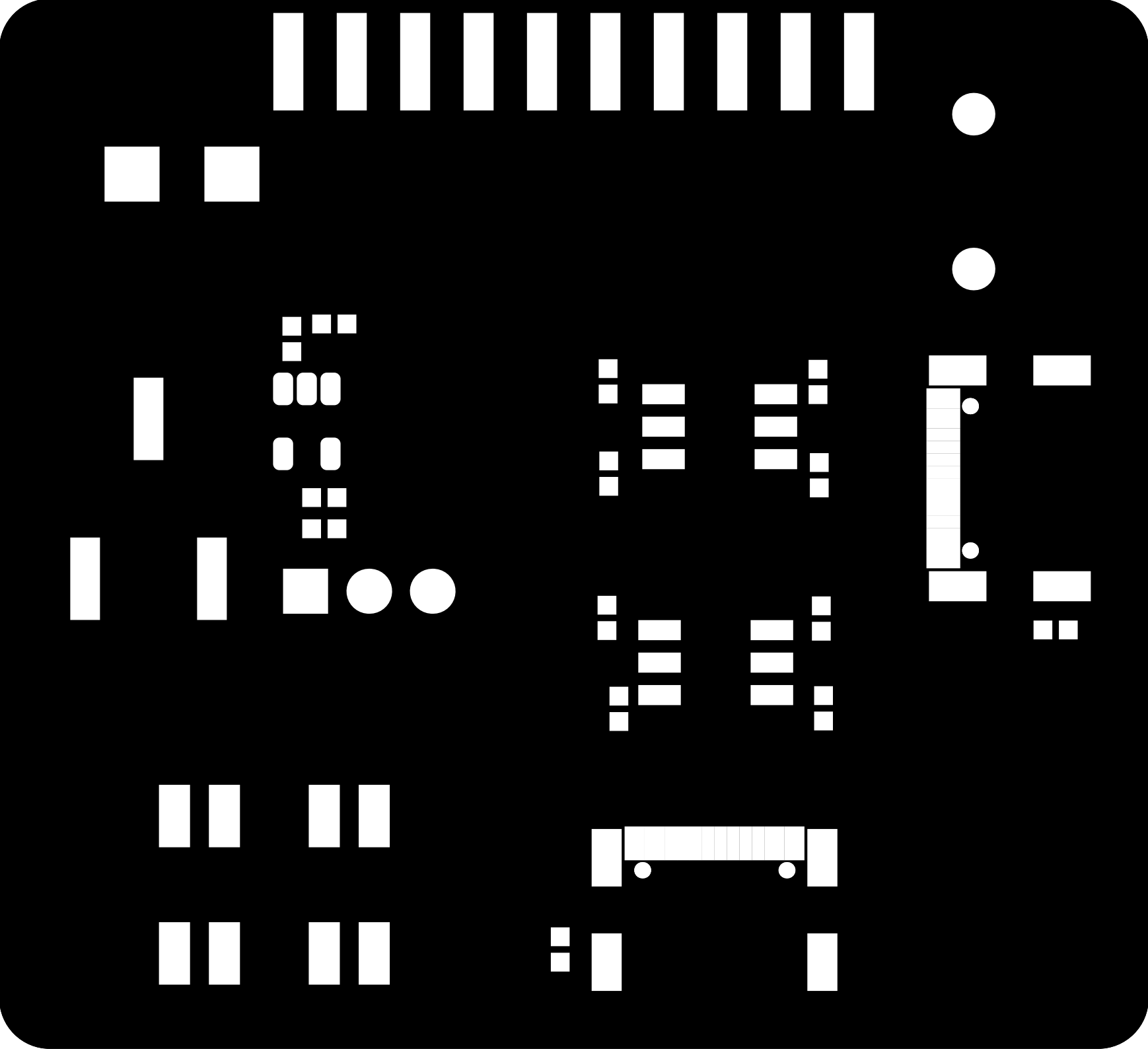
Top Paste (Scale 5:1)




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Title <b>TOP LAYER PASTE</b>			 <b>INTERCREATE</b>  2325 3RD ST. SUITE #204 San Francisco, CA 94107	
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Date <b>12/3/2024</b>	Time <b>2:51 PM</b>	Sheet <b>5</b> of <b>11</b>		
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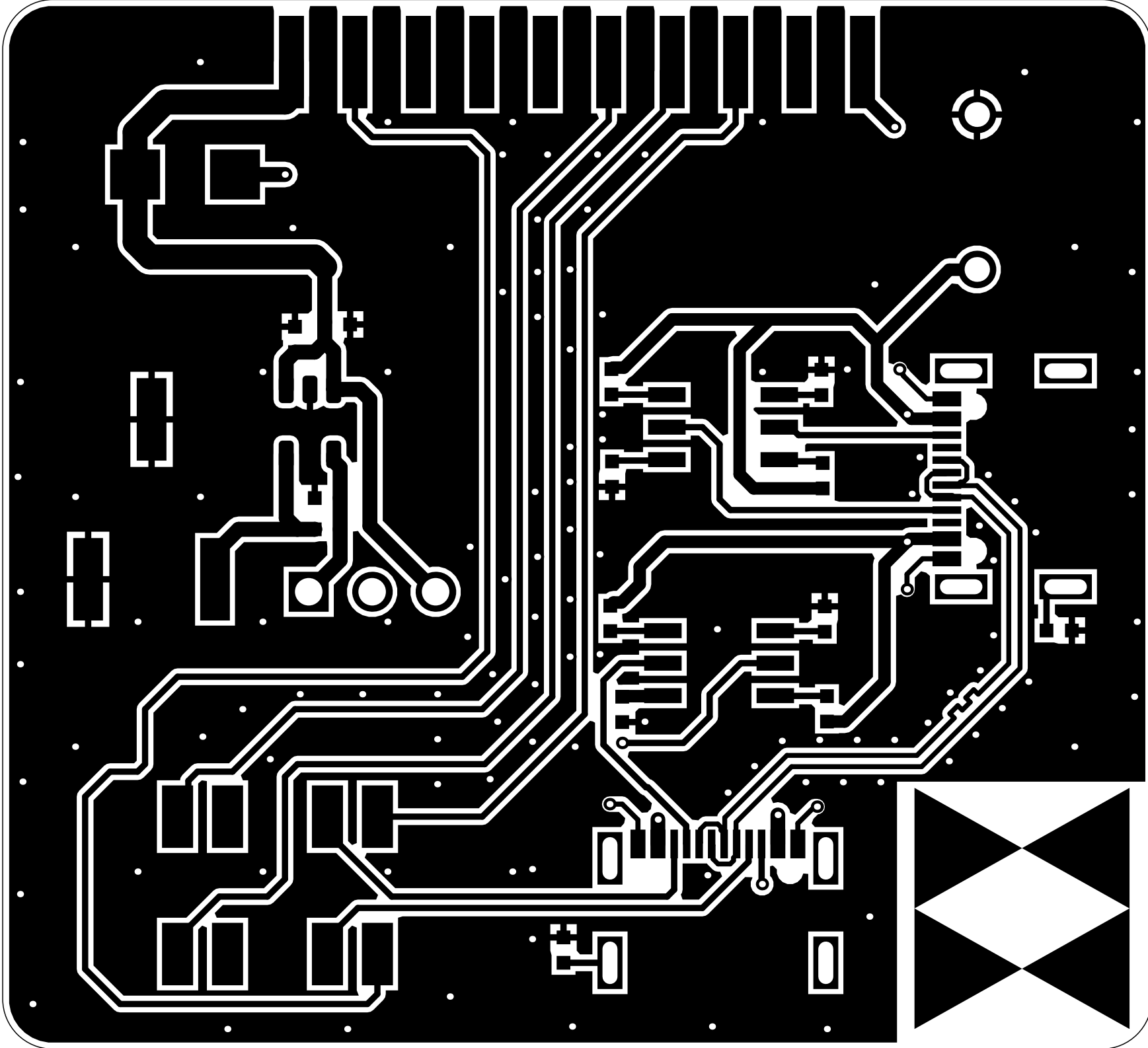
Top Solder (Scale 5:1)




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Title <b>TOP LAYER SOLDERMASK</b>			 <b>INTERCREATE</b>  2325 3RD ST. SUITE #204 San Francisco, CA 94107
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Name <b>DebugBoardSw.PcbDoc</b>	Rev <b>4</b>		
Engineer <b>jeffrey@intercreate.io</b>			
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Date <b>12/3/2024</b>	Time <b>2:51 PM</b>	Sheet <b>6</b> of <b>11</b>	
UNLESS OTHERWISE SPECIFIED, UNITS IN 0.001 INCH (MIL)			

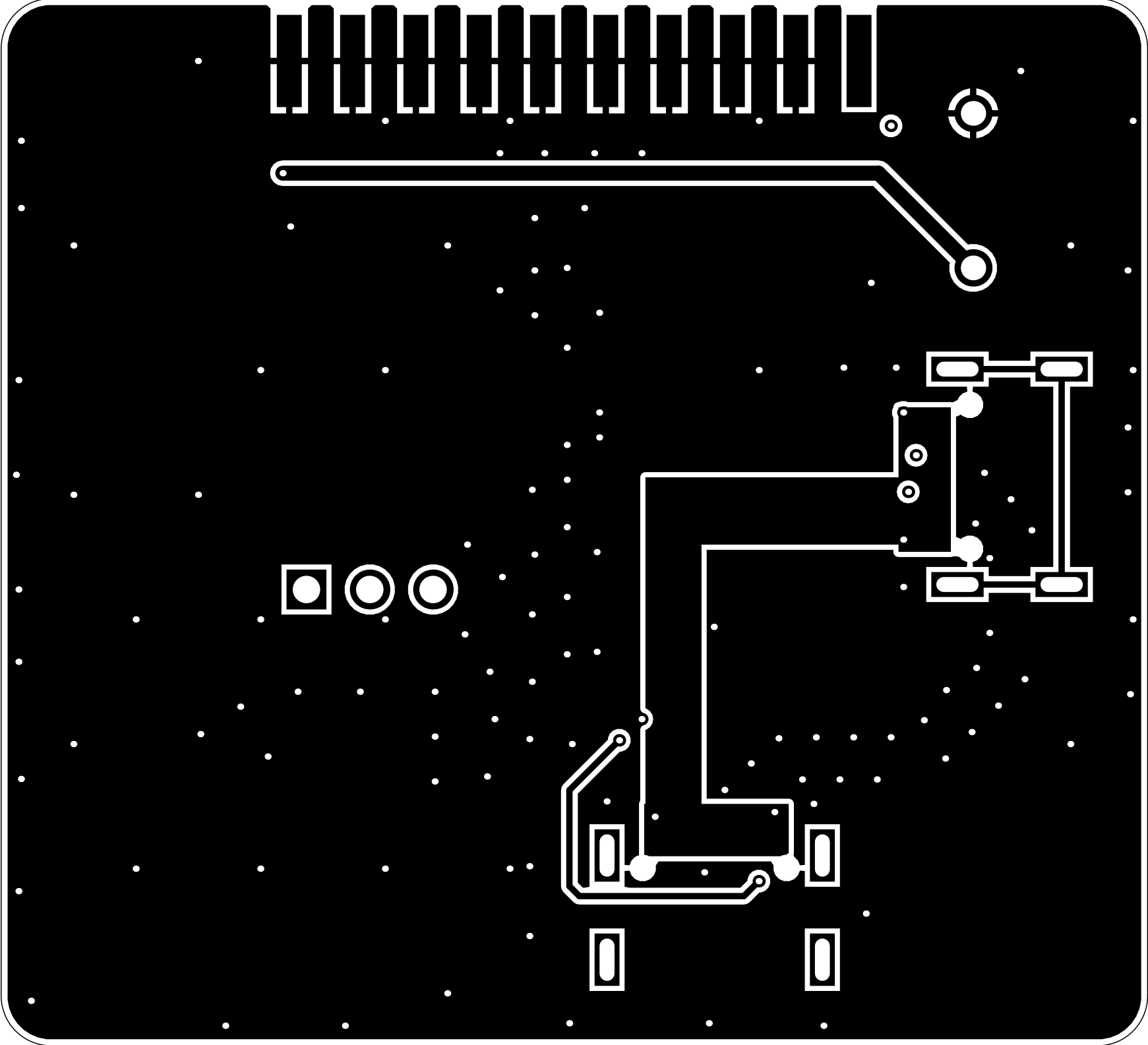
Top Layer (Scale 5:1)




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Engineer <b>jeffrey@intercreate.io</b>			
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Date <b>12/3/2024</b>	Time <b>2:51 PM</b>	Sheet <b>7</b> of <b>11</b>	
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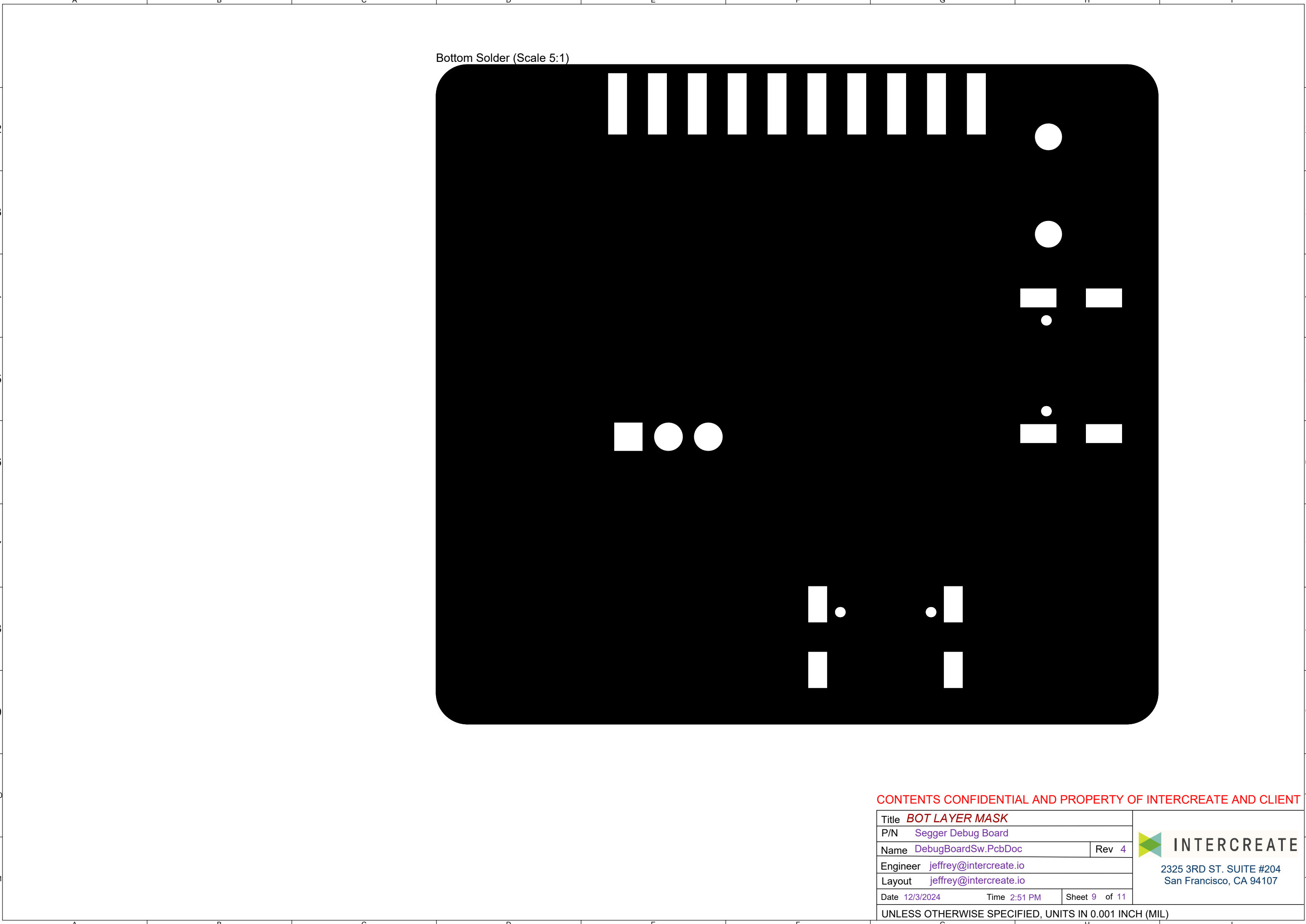
Bottom Layer (Scale 5:1)




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Engineer jeffrey@intercreate.io				
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Title <b>BOT LAYER MASK</b>			<div></div> <div>INTERCREATE</div> <div>2325 3RD ST. SUITE #204 San Francisco, CA 94107</div>	
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Name DebugBoardSw.PcbDoc		Rev 4		
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Layout jeffrey@intercreate.io				
Date 12/3/2024	Time 2:51 PM	Sheet 9 of 11		
UNLESS OTHERWISE SPECIFIED, UNITS IN 0.001 INCH (MIL)				

Bottom Paste (Scale 5:1)




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Title <b>BOT LAYER PASTE</b>			<div> <b>INTERCREATE</b></div> <div>2325 3RD ST. SUITE #204 San Francisco, CA 94107</div>	
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Name DebugBoardSw.PcbDoc	Rev	4		
Engineer jeffrey@intercreate.io				
Layout jeffrey@intercreate.io				
Date 12/3/2024	Time 2:51 PM	Sheet 10 of 11		
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Bottom Overlay (Scale 5:1)

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