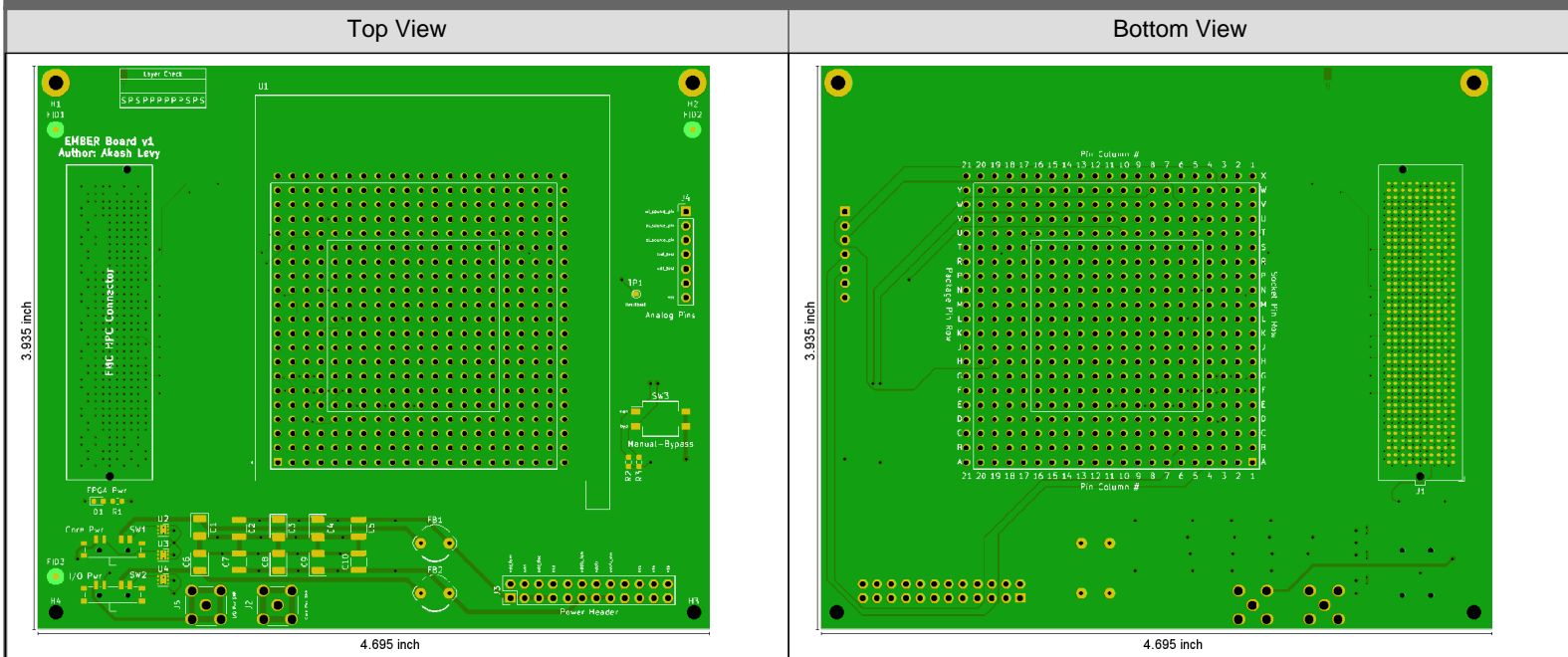


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Report Generated on	Dec 19, 2022, 11:28:41 AM	Customer	InstantDFM

## Single PCB View - Original



## Summary - General - Original

PCB Size	4.695 inch x 3.935 inch	Customer Panel Size	
PCB Thickness	62 mil	Max. Aspect Ratio on PTH	6.2
Copper Layers	12	Pressing Stages	1
Surface Finish	unknown	Drill Hole Density	48 Holes/inch <sup>2</sup>
Solder Mask	Both	Testable Points	1455
Solder Mask Color	Green	Min. SMD/BGA Size	14.76 mil
Legend	Both	Via in Pad	Yes
Legend Color	White	Stacked Vias	
Edge Connector Area	0 inch <sup>2</sup>	Castellated	No
Peeloff Mask	No	Anomalies	No
Carbon Mask	No		

## Summary - Copper Layer Minima - Original

Type	Copper Width	Critical Copper Width	Trace Width	Critical Trace Width	Copper to Copper Clr.	Trace to Trace Clr.	Same Net Clr.	Ring	Copper to Plated Clr.	Copper to NPTH Clr.	Copper to Outline Clr.
	mil	mil	mil	mil	mil	mil	mil	mil	mil	mil	mil
Outer	1 4.00	2 4.00	3 4.00	4 4.00	5 4.00	6 7.87	7 7.87	8 4.00	9 9.84	10 13.74	11 19.84
Inner	12 4.00	13 4.00	14 4.00	15 4.00	16 3.99	17 4.00	18 0.29	19 4.00	20 9.84	21 9.98	22 10.02

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## Summary - Sequences - Original

Type	Sequences	Tools	Min. End Dia.	Max. End Dia.	Holes	Routes	Ring on Outer	Ring on Inner	Hole to Copper Clr.
			mil	mil			mil	mil	mil
PTH	1	8	10.00	98.40	873	0	4.00	4.00	9.84
NPTH	1	3	35.40	98.40	8	0	>32.00	>32.00	9.98
Total	2	11	10.00	98.40	881	0	4.00	4.00	9.84

## Solder Mask - Original

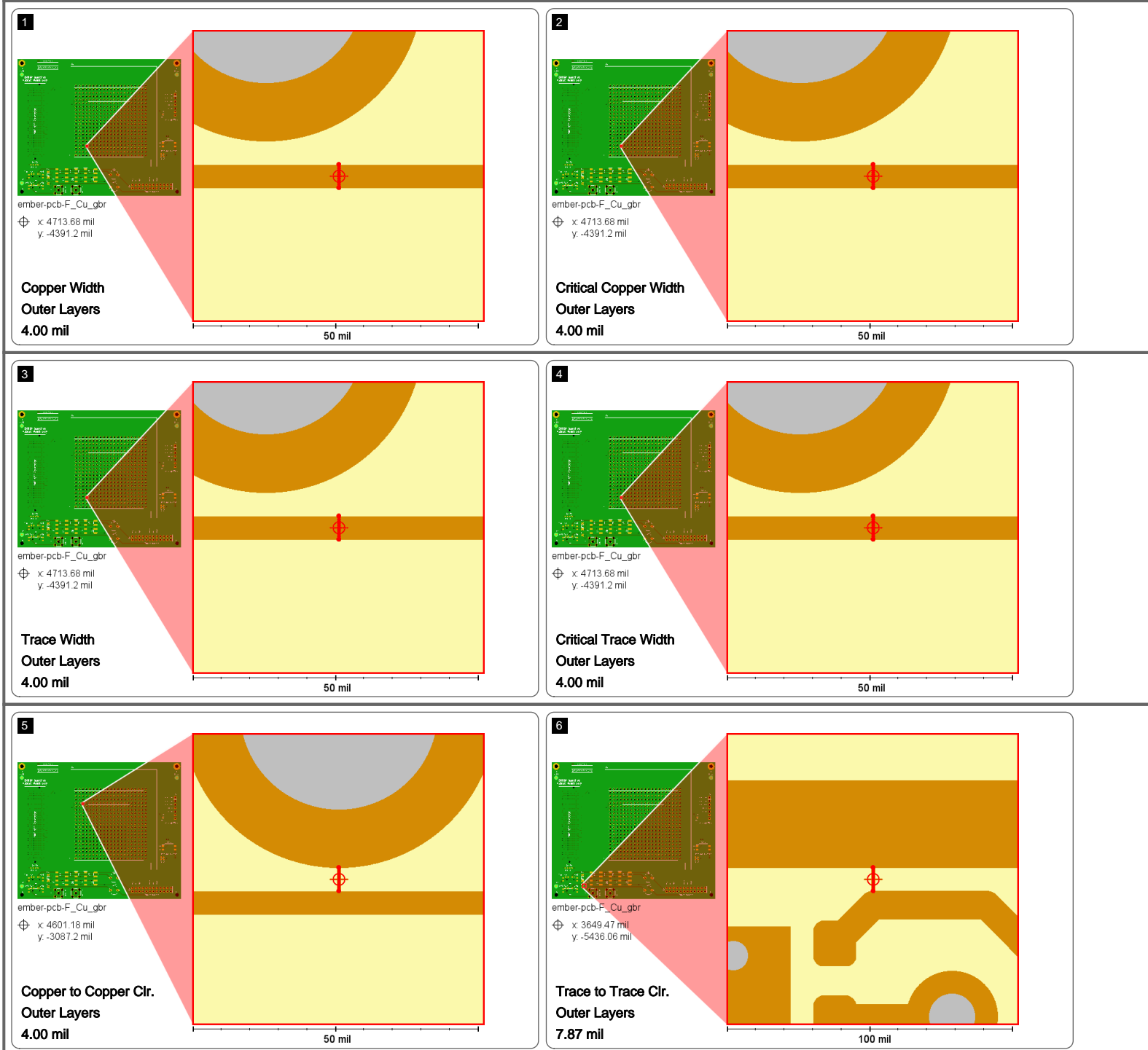
Side	Mask to Mask Clr.	Web	Ring on Cu Defined Pads	Ring on SM Defined Pads	Mask to Copper Clr.	Mask Opening	Fully Covered Via Holes	Partly Covered Via Holes	One Side Covered Vias	Both Sides Covered Vias	No Side Covered Vias
	mil	mil	mil	mil	mil	mil					
Top	>10.00	7.87	>10.00	>10.00	4.00	14.76	Yes	No			
Bottom	>10.00	>10.00	>10.00	>10.00	4.00	25.20	Yes	No			
Both	>10.00	7.87	>10.00		4.00	14.76	Yes	No	Yes	Yes	No

## Stackup - Original

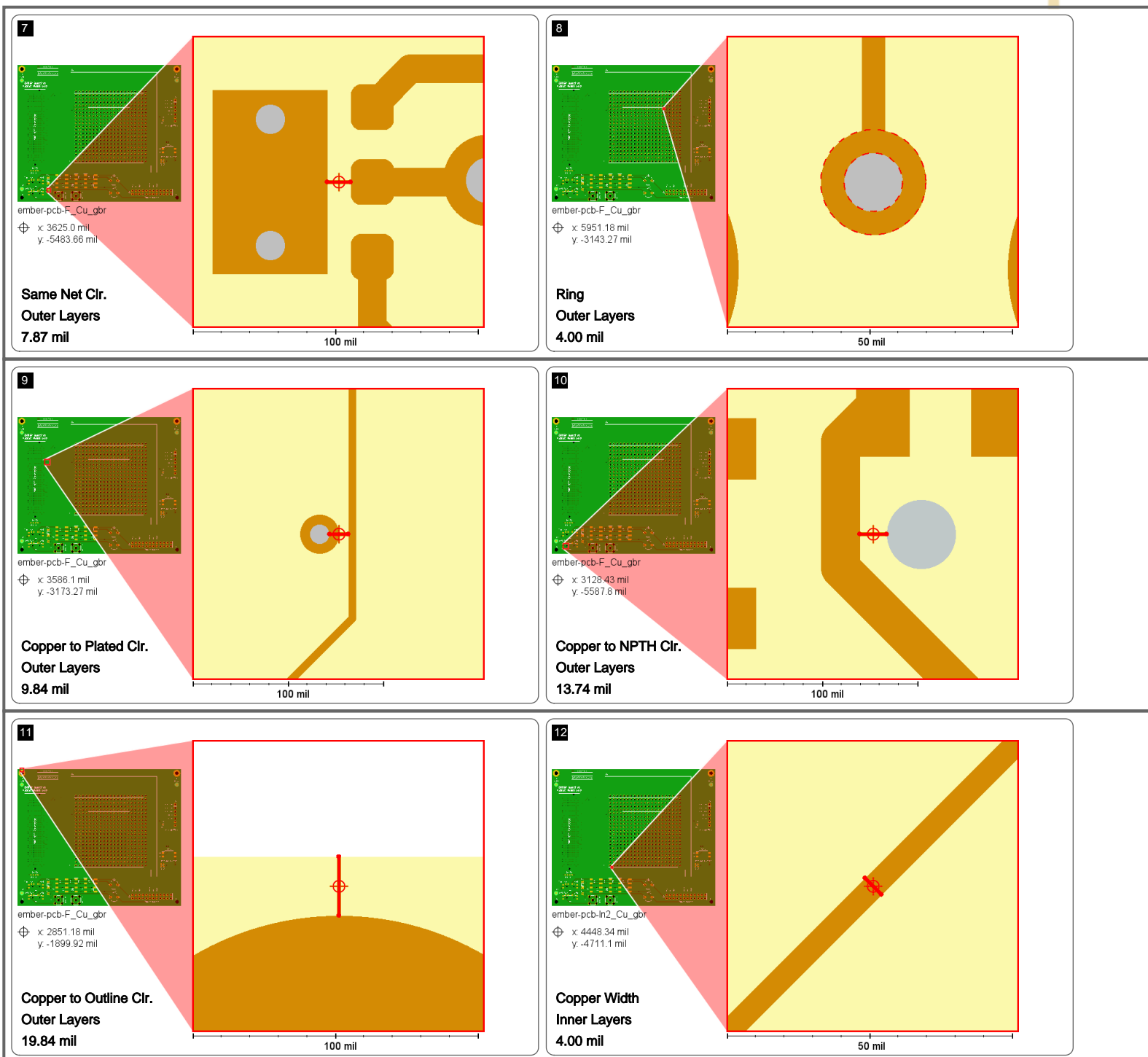
legend		ember-pcb-F_Silkscreen_gbr
soldermask		ember-pcb-F_Mask_gbr
1		ember-pcb-F_Cu_gbr
2		ember-pcb-In1_Cu_gbr
3		ember-pcb-In2_Cu_gbr
4		ember-pcb-In3_Cu_gbr
5		ember-pcb-In4_Cu_gbr
6		ember-pcb-In5_Cu_gbr
7		ember-pcb-In6_Cu_gbr
8		ember-pcb-In7_Cu_gbr
9		ember-pcb-In8_Cu_gbr
10		ember-pcb-In9_Cu_gbr
11		ember-pcb-In10_Cu_gbr
12		ember-pcb-B_Cu_gbr
soldermask		ember-pcb-B_Mask_gbr
legend		ember-pcb-B_Silkscreen_gbr
		ember-pcb-NPTH_drl
		ember-pcb-PTH_drl
Pressing Stages	1	

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## Summary Minimum Design Characteristics - Locations - Original

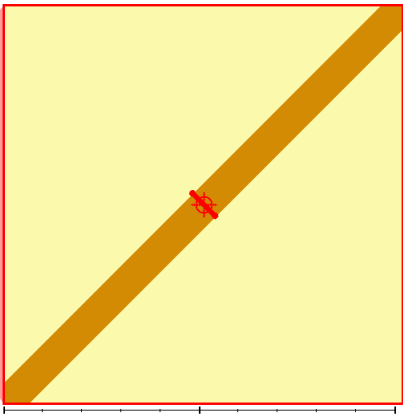


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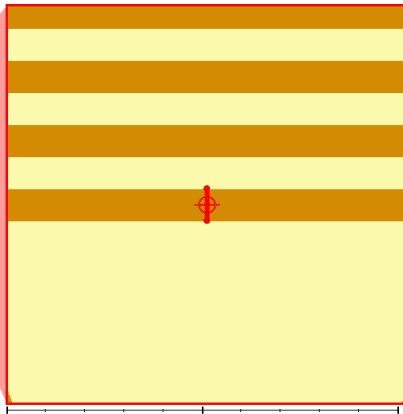


ember-pcb-ln2\_Cu\_gbr  
⊕ x: 4448.34 mil  
y: -4711.1 mil

**Critical Copper Width  
Inner Layers**  
4.00 mil

50 mil

14

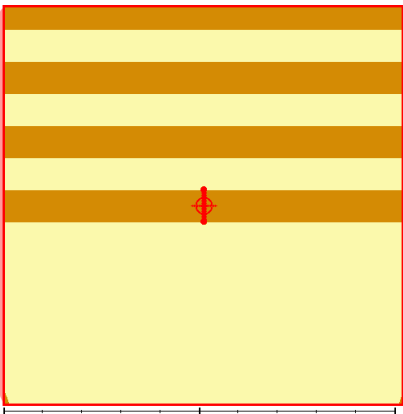


ember-pcb-ln2\_Cu\_gbr  
⊕ x: 5351.18 mil  
y: -4025.34 mil

**Trace Width  
Inner Layers**  
4.00 mil

50 mil

15

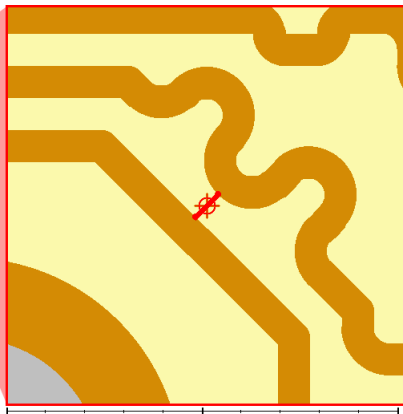


ember-pcb-ln2\_Cu\_gbr  
⊕ x: 5351.18 mil  
y: -4025.34 mil

**Critical Trace Width  
Inner Layers**  
4.00 mil

50 mil

16

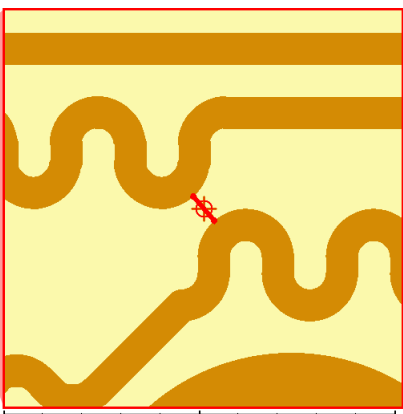


ember-pcb-ln2\_Cu\_gbr  
⊕ x: 5131.31 mil  
y: -3024.87 mil

**Copper to Copper Ctr.  
Inner Layers**  
3.99 mil

50 mil

17

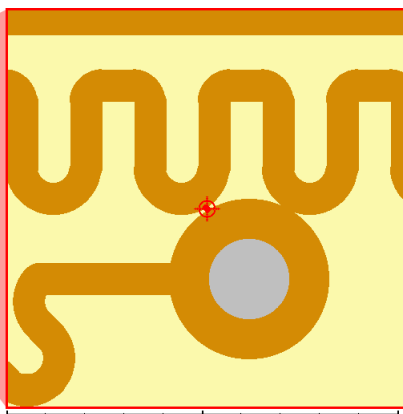


ember-pcb-ln2\_Cu\_gbr  
⊕ x: 5390.3 mil  
y: -3013.34 mil

**Trace to Trace Ctr.  
Inner Layers**  
4.00 mil

50 mil

18

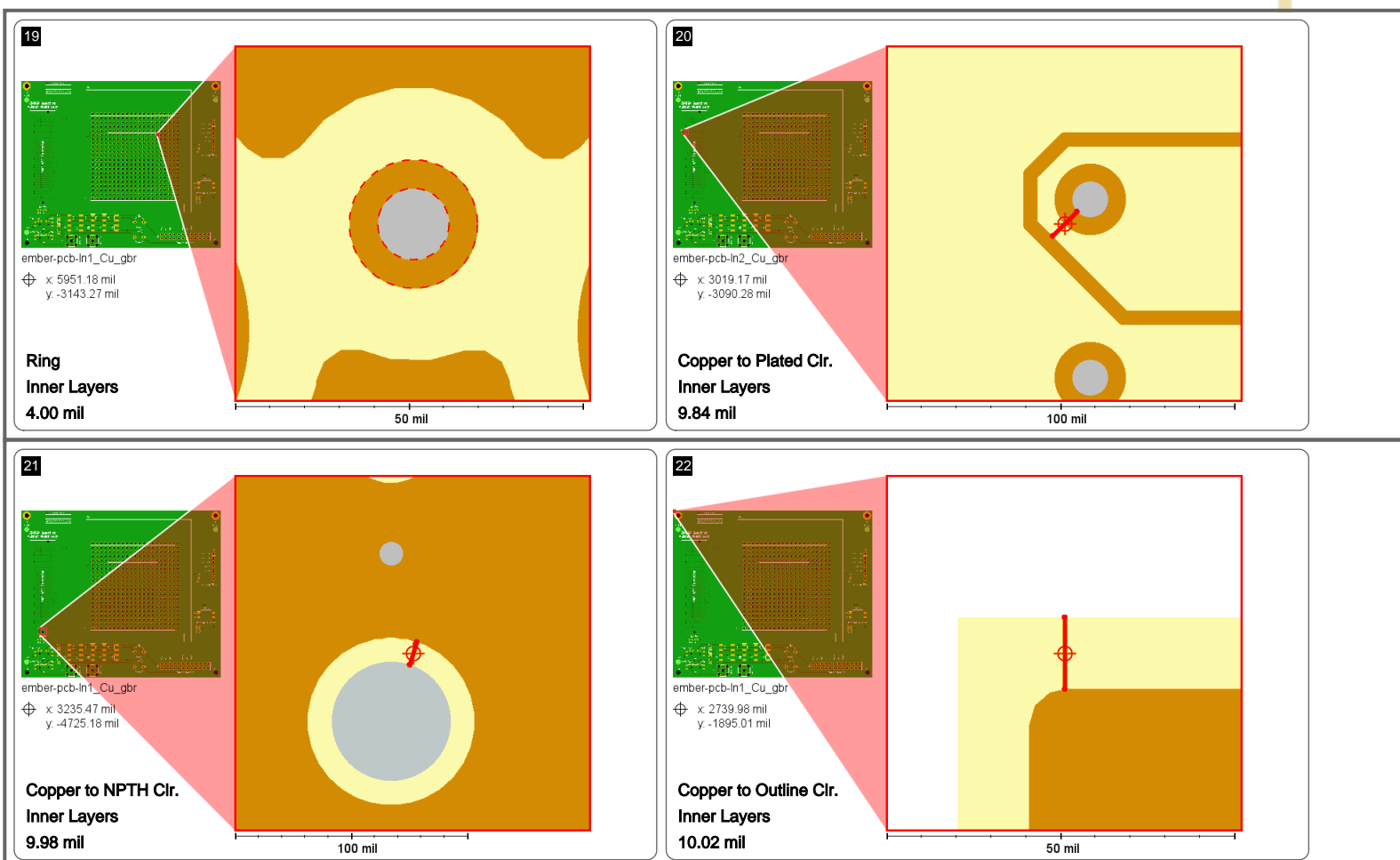


ember-pcb-ln2\_Cu\_gbr  
⊕ x: 3221.0 mil  
y: -3374.55 mil

**Same Net Ctr.  
Inner Layers**  
0.29 mil

50 mil

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## Copper Layer Minima &amp; Area - Original

File	Pos.	Copper Width	Critical Copper Width	Trace Width	Critical Trace Width	Copper to Copper Clr.	Same Net Clr.	Copper Area	
		mil	mil	mil	mil	mil	mil	inch <sup>2</sup>	%
ember-pcb-F_Cu_gbr	1	4.00	4.00	4.00	4.00	4.00	7.87	1.9587	11
ember-pcb-ln1_Cu_gbr	2	8.88	>16.00	>16.00	>16.00	5.79	14.00	16.8350	91
ember-pcb-ln2_Cu_gbr	3	4.00	4.00	4.00	4.00	3.99	0.29	2.5741	14
ember-pcb-ln3_Cu_gbr	4	8.88	>16.00	>16.00	>16.00	5.79	9.40	16.3760	89
ember-pcb-ln4_Cu_gbr	5	8.88	>16.00	>16.00	>16.00	5.79	14.00	16.6890	90
ember-pcb-ln5_Cu_gbr	6	8.88	>16.00	>16.00	>16.00	5.79	14.00	16.6890	90
ember-pcb-ln6_Cu_gbr	7	8.88	>16.00	>16.00	>16.00	5.79	14.00	16.6950	90
ember-pcb-ln7_Cu_gbr	8	8.88	>16.00	>16.00	>16.00	5.79	14.00	16.6910	90
ember-pcb-ln8_Cu_gbr	9	8.88	>16.00	>16.00	>16.00	4.02	4.25	16.8570	91
ember-pcb-ln9_Cu_gbr	10	4.00	4.00	4.00	4.00	4.00	0.57	2.6865	15
ember-pcb-ln10_Cu_gbr	11	8.88	>16.00	>16.00	>16.00	5.79	14.00	16.8350	91
ember-pcb-B_Cu_gbr	12	4.00	4.00	4.00	4.00	4.00	12.62	1.9298	10

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## Copper Layer Minima - Copper to Drill Minima - Original

























File	Pos.	Ring					Copper to Drill Clr.		Copper to Outline Clr.			
		Overall	Via	Laser Via	Comp.	Mech.	Plated	NPTH	Overall	to Pad	to Trace	to Region
		mil	mil	mil	mil	mil	mil	mil	mil	mil	mil	mil
ember-pcb-F_Cu_gbr	1	4.00	4.00		9.98		9.84	13.74	19.84	19.84	46.73	>64.00
ember-pcb-In1_Cu_gbr	2	4.00	4.00		9.98		10.79	9.98	10.02	19.84	>64.00	10.02
ember-pcb-In2_Cu_gbr	3	4.00	4.00		9.98		9.84	35.43	19.84	19.84	>64.00	>64.00
ember-pcb-In3_Cu_gbr	4	4.00	4.00		9.98		10.79	9.98	10.02	19.84	>64.00	10.02
ember-pcb-In4_Cu_gbr	5	4.00	4.00		9.98		10.79	9.98	10.02	19.84	>64.00	10.02
ember-pcb-In5_Cu_gbr	6	4.00	4.00		9.98		10.79	9.98	10.02	19.84	>64.00	10.02
ember-pcb-In6_Cu_gbr	7	4.00	4.00		9.98		10.79	9.98	10.02	19.84	>64.00	10.02
ember-pcb-In7_Cu_gbr	8	4.00	4.00		9.98		10.79	9.98	10.02	19.84	>64.00	10.02
ember-pcb-In8_Cu_gbr	9	4.00	4.00		9.98		9.86	9.98	10.02	19.84	>64.00	10.02
ember-pcb-In9_Cu_gbr	10	4.00	4.00		9.98		9.84	26.28	19.84	19.84	>64.00	>64.00
ember-pcb-In10_Cu_gbr	11	4.00	4.00		9.98		10.79	9.98	10.02	19.84	>64.00	10.02
ember-pcb-B_Cu_gbr	12	4.00	4.00		9.98		9.84	24.65	19.84	19.84	38.90	>64.00

## Drill Tools - Original

File	Tool Nr.	Span	Type	Function	Method	Filled Via	Counter	Dia.	Tol. -	Tol. +	Holes in PCB	Routs in PCB	Double Hits	Predrill Hits
								mil	mil	mil				
ember-pcb-NPTH_drl	1	1-12	NPTH	mech.	mech.	unknown	unknown	35.40	0.00	0.00	4	0	0	0
ember-pcb-NPTH_drl	2	1-12	NPTH	mech.	mech.	unknown	unknown	50.00	0.00	0.00	2	0	0	0
ember-pcb-NPTH_drl	3	1-12	NPTH	mech.	mech.	unknown	unknown	98.40	0.00	0.00	2	0	0	0
ember-pcb-PTH_drl	1	1-12	PTH	via	mech.	unknown	unknown	10.00	0.00	0.00	349	0	0	0
ember-pcb-PTH_drl	2	1-12	PTH	via	mech.	unknown	unknown	10.00	0.00	0.00	6	0	0	0
ember-pcb-PTH_drl	3	1-12	PTH	via	mech.	unknown	unknown	15.70	0.00	0.00	30	0	0	0
ember-pcb-PTH_drl	4	1-12	PTH	comp.	mech.	unknown	unknown	31.50	0.00	0.00	4	0	0	0
ember-pcb-PTH_drl	5	1-12	PTH	comp.	mech.	unknown	unknown	33.90	0.00	0.00	441	0	0	0
ember-pcb-PTH_drl	6	1-12	PTH	comp.	mech.	unknown	unknown	39.40	0.00	0.00	31	0	0	0
ember-pcb-PTH_drl	7	1-12	PTH	comp.	mech.	unknown	unknown	59.10	0.00	0.00	10	0	0	0
ember-pcb-PTH_drl	8	1-12	PTH	comp.	mech.	unknown	unknown	98.40	0.00	0.00	2	0	0	0

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## Drill Tools - Drill vs Copper - Original

File	Tool Nr.	Span	Type	Function	Method	Dia.	Ring on Outer	Ring on Inner	Min. Pad Size	Via in Pad	Plated to Copper Clr. 			
											Overall	to Pad	to Trace	to Region
						mil	mil	mil	mil		mil	mil	mil	mil
ember-pcb-NPTH_drl	1	1-12	NPTH	mech.	mech.	35.40	>32.00	>32.00						
ember-pcb-NPTH_drl	2	1-12	NPTH	mech.	mech.	50.00	>32.00	>32.00						
ember-pcb-NPTH_drl	3	1-12	NPTH	mech.	mech.	98.40	>32.00	>32.00						
ember-pcb-PTH_drl	1	1-12	PTH	via	mech.	10.00	4.00	4.00	18.00	0	9.84	10.79	9.84	9.86
ember-pcb-PTH_drl	2	1-12	PTH	via	mech.	10.00	4.84	4.84	19.68	6	14.86	22.56	24.88	14.86
ember-pcb-PTH_drl	3	1-12	PTH	via	mech.	15.70	7.90	7.90	31.50	0	15.77	19.87	15.77	17.92
ember-pcb-PTH_drl	4	1-12	PTH	comp.	mech.	31.50	23.62	23.62	78.74		>32.00	>32.00	>32.00	>32.00
ember-pcb-PTH_drl	5	1-12	PTH	comp.	mech.	33.90	9.98	9.98	53.86		13.98	15.77	13.98	14.00
ember-pcb-PTH_drl	6	1-12	PTH	comp.	mech.	39.40	13.76	13.76	66.92		17.79	>32.00	21.64	17.79
ember-pcb-PTH_drl	7	1-12	PTH	comp.	mech.	59.10	14.74	14.74	88.58		24.76	>32.00	30.65	24.76
ember-pcb-PTH_drl	8	1-12	PTH	comp.	mech.	98.40	>32.00	>32.00	>162.40		>32.00	>32.00	>32.00	>32.00

## Sequences - Original

Span	Type	Tools	Min. End Dia.	Max. End Dia.	Holes	Ring on Outer	Ring on Inner	Hole to Copper Clr.	Hole to Outline Clr.	Slot to Outline Clr.
			mil	mil		mil	mil	mil	mil	mil
1-12	PTH	8	10.00	98.40	873	4.00	4.00	9.84	37.18	>256.00
1-12	NPTH	3	35.40	98.40	8	>32.00	>32.00	9.98	64.60	>256.00
All	All	11	10.00	98.40	881	4.00	4.00	9.84	37.18	>256.00

## Rout Tools - Original

File	Tool Nr.	Type	Tool Dia.	End Dia.	Rout Length	Nibble Count
			mil	mil	mil	

## Routed Holes - Original

File	Hole Nr.	Instances	X Size	Y Size	Rout Length	Nibble Count
			mil	mil	mil	



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## Files - Original

Initial	Renamed	Function	Position	Color	Thickness	
					Base	Finished
					mil	mil
ember-pcb-F_Paste.gbr		paste	top			
ember-pcb-F_Silkscreen.gbr		silk	top	white	unknown	unknown
ember-pcb-F_Mask.gbr		mask	top	green	unknown	unknown
ember-pcb-F_Cu.gbr		outer	1		unknown	unknown
ember-pcb-In1_Cu.gbr		inner	2		unknown	unknown
ember-pcb-In2_Cu.gbr		inner	3		unknown	unknown
ember-pcb-In3_Cu.gbr		inner	4		unknown	unknown
ember-pcb-In4_Cu.gbr		inner	5		unknown	unknown
ember-pcb-In5_Cu.gbr		inner	6		unknown	unknown
ember-pcb-In6_Cu.gbr		inner	7		unknown	unknown
ember-pcb-In7_Cu.gbr		inner	8		unknown	unknown
ember-pcb-In8_Cu.gbr		inner	9		unknown	unknown
ember-pcb-In9_Cu.gbr		inner	10		unknown	unknown
ember-pcb-In10_Cu.gbr		inner	11		unknown	unknown
ember-pcb-B_Cu.gbr		outer	12		unknown	unknown
ember-pcb-B_Mask.gbr		mask	bottom	green	unknown	unknown
ember-pcb-B_Silkscreen.gbr		silk	bottom	white	unknown	unknown
ember-pcb-B_Paste.gbr		paste	bottom			
ember-pcb-NPTH.drl		nonplated	1-12			
ember-pcb-PTH.drl		plated	1-12			
ember-pcb-Edge_Cuts.gbr		cad_outline	none			

## Input Remarks - Original

ERROR: Could not validate file due to Internal Error.  
 Import of Gerber Job File failed 'ember-pcb-job.gbrjob'

## Comments - Original