Name	z4tmifb2.zip	Id.	21270 - QED OK
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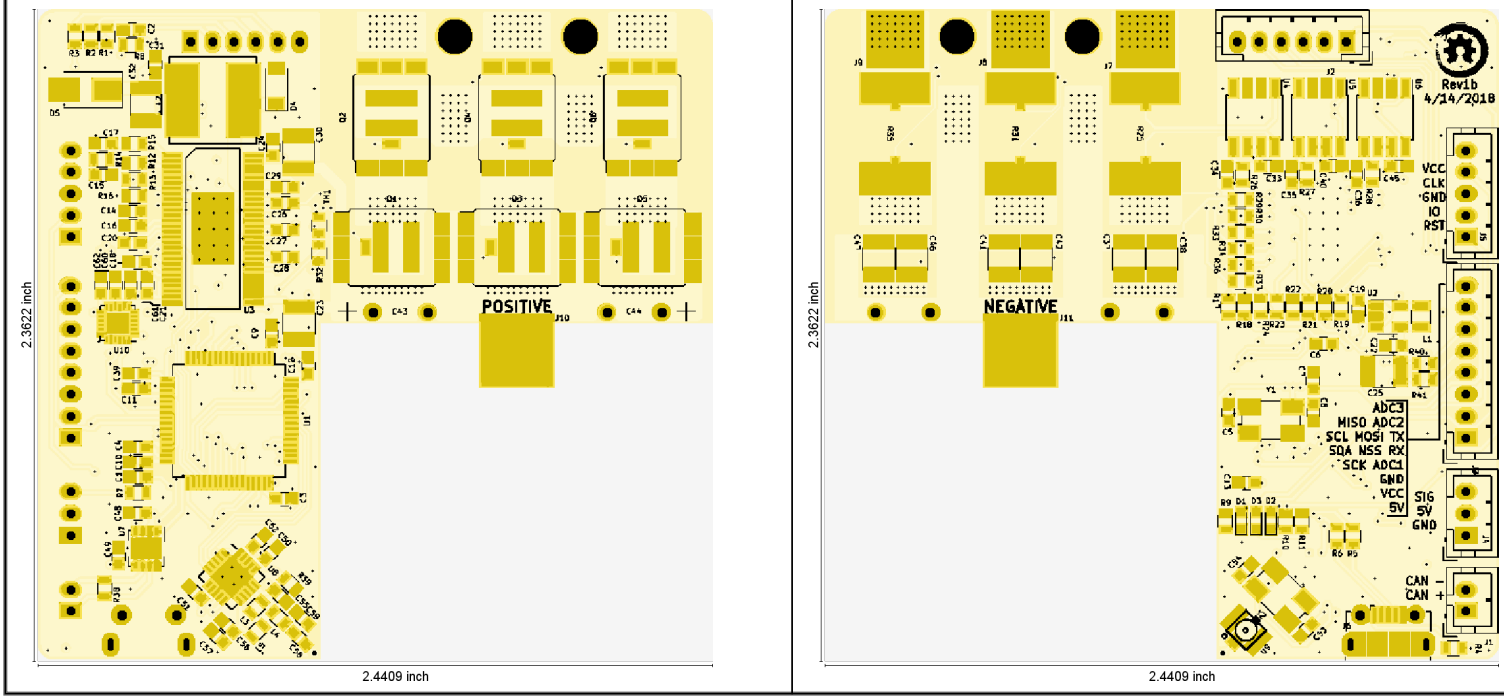
Single PCB View - Original

Top View	Bottom View



Summary - General - Original

PCB Size	2.4409 inch x 2.3622 inch	Copper Layers	4
PCB Thickness	62.00 mil	Solder Mask	Both
Customer Panel Size		Solder Mask Color	White
SMD Pads Top	399	Legend	Both
SMD Pads Bottom	165	Legend Color	Black
SMD Density Top	97 SMD/inch^2	Peeloff Mask	None
SMD Density Bottom	40 SMD/inch^2	Carbon Mask	None
Number of Nets	146	Drill Hole Density	133 Holes/inch^2
Electrical Test	Double Sided	Holes in SMD Pads	Yes
Max. Aspect Ratio on PTH	5.6	Edge Connectors	No
		Surface Finish	

Summary - Copper Layers - Original

Layer Type	Min. Line Width	Min. Copper Width	Min. Ring	Min. Clr. to Copper	Min. Clr. to Plated Hole	Min. Clr. to NPTH	Min. Clr. to Outline
	mil	mil	mil	mil	mil	mil	mil
Outer	1 5.91	2 5.64	3 5.23	4 5.00	5 10.25	6 39.90	7 6.89
Inner	8 7.87	9 4.73	10 5.25	11 5.00	12 10.25	13 27.72	14 8.59

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Summary - Sequences - Original

Type	Sequences	Tools	Min. End Dia.	Max. End Dia.	Holes	Moves	Min. Ring on Outer	Min. Ring on Inner	Min. Clr. Hole to Copper
			mil	mil			mil	mil	mil
Blind	0								
Buried	0								
PTH	1	5	11.00	35.00	542	2	5.23	5.25	10.25
Plated (Total)	1	5	11.00	35.00	542	2	5.23	5.25	10.25
NPTH	1	1	126.00	126.00	2				27.72
Total	2	6	11.00	126.00	544	2	5.23	5.25	10.25

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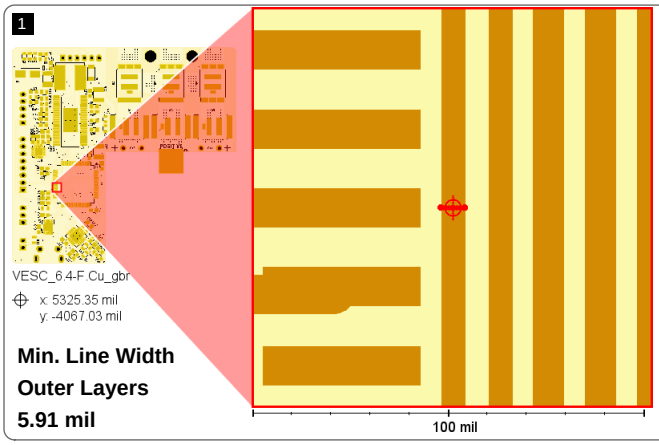
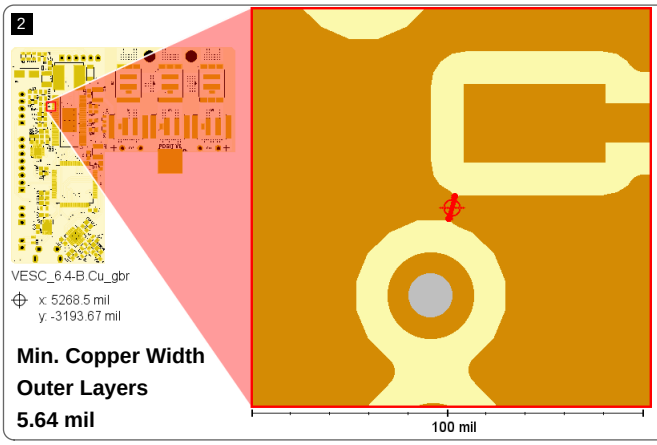
Summary Minimum Design Characteristics - Locations - Original

1



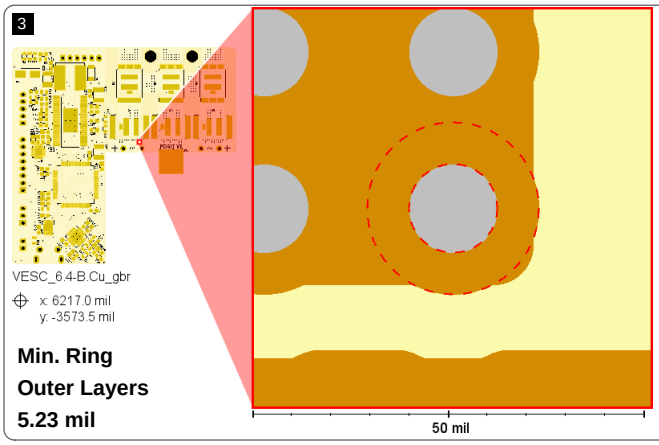
Min. Line Width
Outer Layers
5.91 mil

2



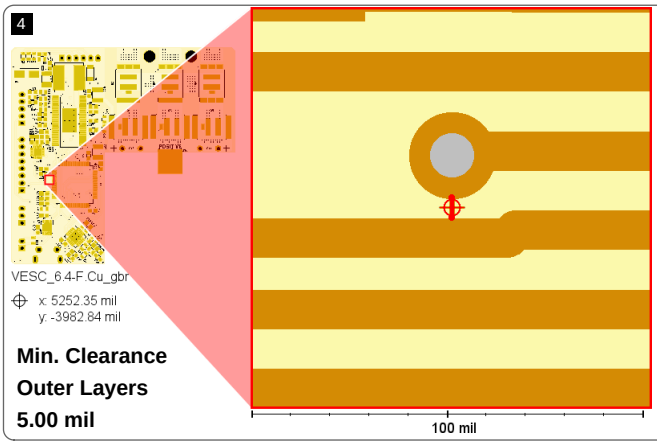
Min. Copper Width
Outer Layers
5.64 mil

3



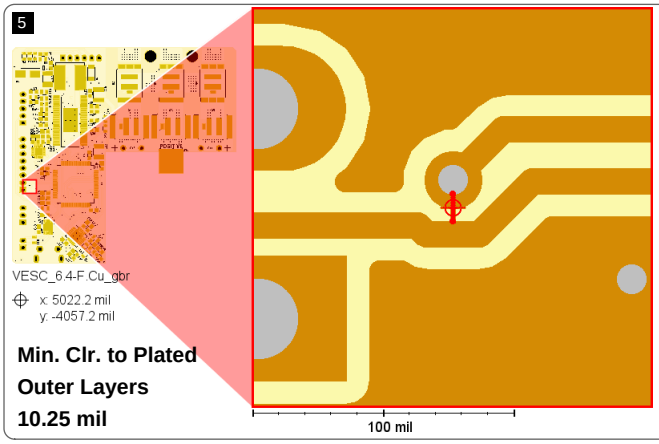
Min. Ring
Outer Layers
5.23 mil

4



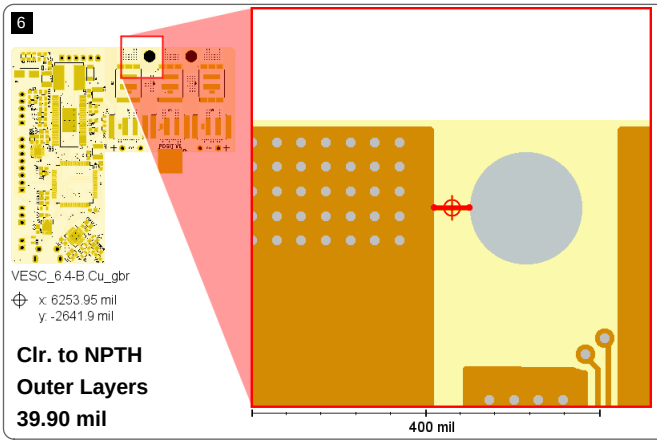
Min. Clearance
Outer Layers
5.00 mil

5



Min. Clr. to Plated
Outer Layers
10.25 mil

6



Clr. to NPTH
Outer Layers
39.90 mil

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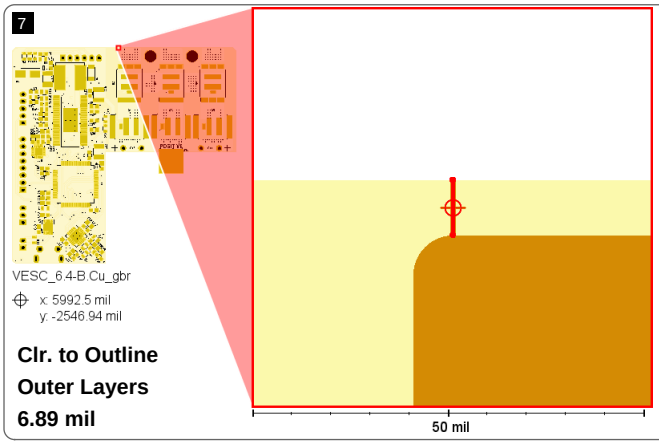
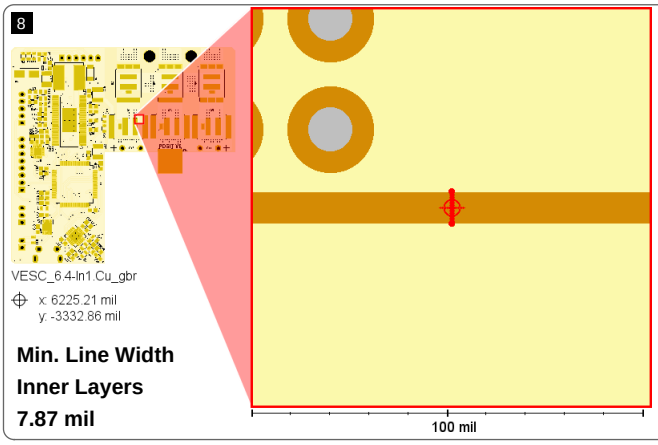
7



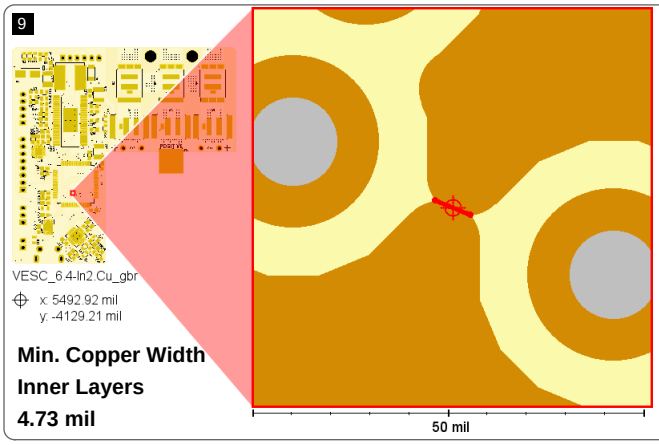
Clr. to Outline
Outer Layers
6.89 mil

8



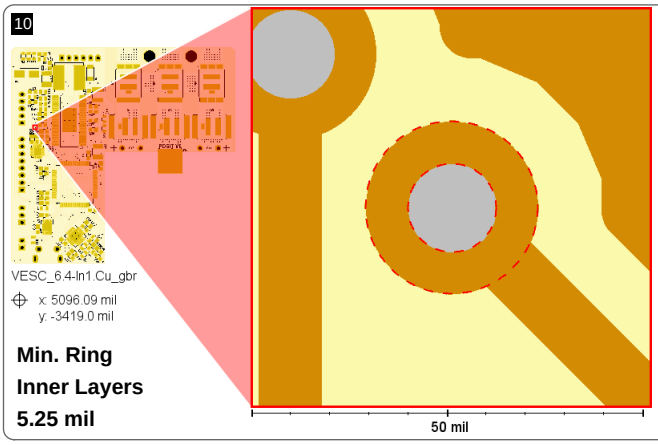
Min. Line Width
Inner Layers
7.87 mil

9



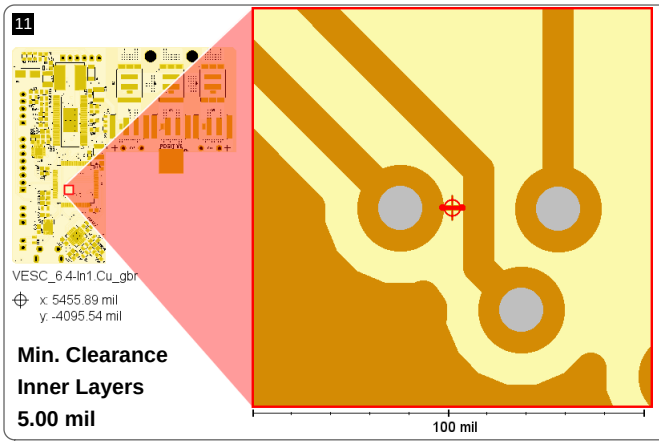
Min. Copper Width
Inner Layers
4.73 mil

10



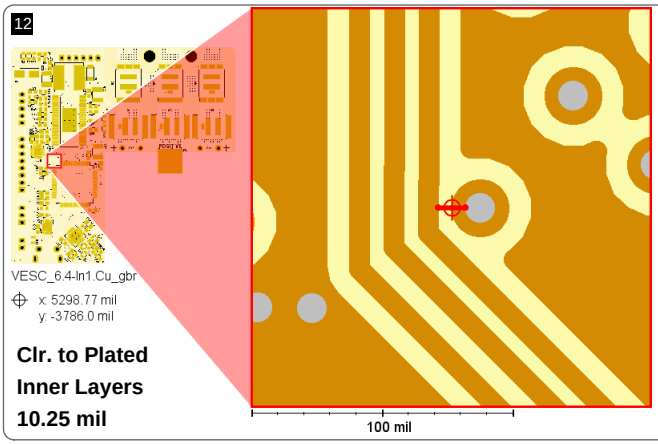
Min. Ring
Inner Layers
5.25 mil

11



Min. Clearance
Inner Layers
5.00 mil

12



Clr. to Plated
Inner Layers
10.25 mil

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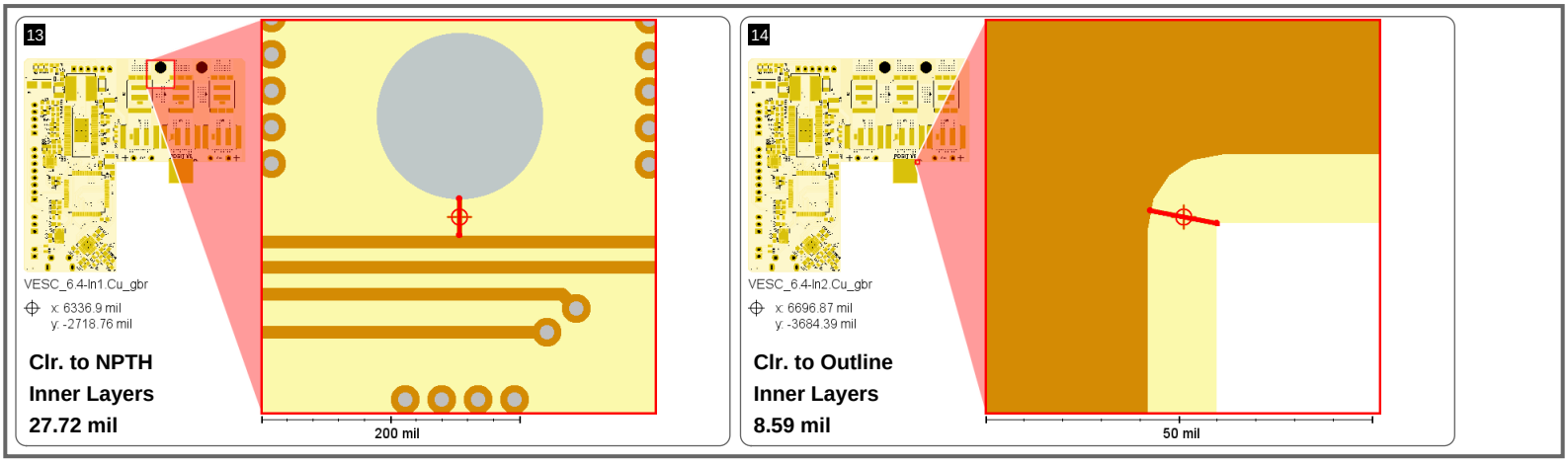
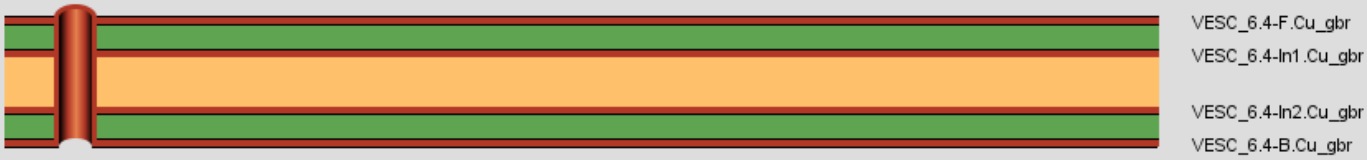


Stackup - Original



Pressing Stages	1

Copper Layers - Original

File	Pos.	Min. Line Width	Min. Copper Width	Min. Ring	Min. Clr. to Copper	Min. Same Net spacing	Min. Clr. to Plated Hole	Min. Clr. to NPTH	Min. Clr. to Outline	Copper Area	
		mil	mil	mil	mil	mil	mil	mil	mil	inch^2	%
VESC_6.4-F.Cu_gbr	1	5.91	5.91	5.25	5.00	0.28	10.25	39.99	7.54	2.8921	71
VESC_6.4-In1.Cu_gbr	2	7.87	7.87	5.25	5.00	0.72	10.25	27.72	8.87	2.0894	51
VESC_6.4-In2.Cu_gbr	3	>16.00	4.73	5.25	5.00	0.72	10.25	62.96	8.59	3.0312	74
VESC_6.4-B.Cu_gbr	4	5.91	5.64	5.23	5.00	0.72	10.25	39.90	6.89	2.9025	71

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Drill Tools - Original

File	Tool Nr.	Span	Type	Method	FilledVia	Countered	Dia.	Tol. Min	Tol. Plus	Holes (in PCB)	Moves (in PCB)	Double Hits (in File)	Predrill Hits (in File)	Min. Ring on Outer	Min. Ring on Inner	Min. Pad Size
							mil	mil	mil					mil	mil	mil
VESC_6.4_drl	1	1-4	PTH	unknown	unknown	unknown	11.00	0.00	0.00	511	0	0	0	5.23	5.25	21.46
VESC_6.4_drl	2	1-4	PTH	unknown	unknown	unknown	16.00	0.00	0.00	1	0	0	0	7.75	7.75	31.50
VESC_6.4_drl	3	1-4	PTH	unknown	unknown	unknown	24.00	unknown	unknown	0	2	0	0	unknown	unknown	> 88.00
VESC_6.4_drl	4	1-4	PTH	unknown	unknown	unknown	30.00	0.00	0.00	24	0	0	0	8.57	8.57	47.14
VESC_6.4_drl	5	1-4	PTH	unknown	unknown	unknown	33.00	0.00	0.00	2	0	0	0	14.76	12.04	57.08
VESC_6.4_drl	6	1-4	PTH	unknown	unknown	unknown	35.00	0.00	0.00	4	0	0	0	10.06	10.06	55.12
VESC_6.4_drl	7	1-4	NPTH	unknown	unknown	unknown	126.00	0.00	0.00	2	0	0	0	>32.00	>32.00	

Sequences - Original

Span	Type	Tools	Min. End Dia.	Max. End Dia.	Holes	Min. Ring on Outer	Min. Ring on Inner	Min. Ring on Outer NPTH	Min. Ring on Inner NPTH	Min. Clr. Hole to Copper	Min. Clr. Hole to Outline	Min. Clr. Slot to Outline
			mil	mil		mil	mil	mil	mil	mil	mil	mil
1-4	PTH	5	11.00	35.00	542	5.23	5.25			10.25	16.62	disabled
All	Plated	5	11.00	35.00	542	5.23	5.25			10.25	16.62	disabled
1-4	NPTH	1	126.00	126.00	2			>32.00	>32.00	27.72	35.40	disabled
All	All	6	11.00	126.00	544	5.23	5.25	>32.00	>32.00	10.25	16.62	disabled

Rout Tools - Original

File	Tool Nr.	Type	Tool Dia.	End Dia.	Draw Length	Nibble Count
			mil	mil	mil	
VESC_6.4_drl	3	PTH	unknown	24.00	55.20	18

Routed Holes - Original

File	Hole Nr.	Instances	X Size	Y Size	Draw Length	Nibble Count
			mil	mil	mil	
VESC_6.4_drl	1	2	24.00	51.60	27.60	9

Solder Mask - Original

Side	Min. Ring on Cu Defined Pads	Min. Ring on SM Defined Pads	Min. Clr. Mask to Mask	Min. Web	Min. Clr. Mask to Copper	Fully Covered Via Holes	Partly Covered Via Holes	TH Via Holes Half Mask
	mil	mil	mil	mil	mil			
Top	7.27		>10.00	3.94	0.11	Yes	Yes	
Bottom	7.87		5.90	3.94	0.23	Yes	Yes	
All	7.27		5.90	3.94	0.11	Yes	Yes	Yes

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Files - Original

Initial	Renamed	Format	Function	Position	Color
VESC_6.4-F.Paste.gbr	VESC_6.4-F.Paste_gbr	ger274x	paste	top	
VESC_6.4-F.SilkS.gbr	VESC_6.4-F.SilkS_gbr	ger274x	silk	top	black
VESC_6.4-F.Mask.gbr	VESC_6.4-F.Mask_gbr	ger274x	mask	top	white
VESC_6.4-F.Cu.gbr	VESC_6.4-F.Cu_gbr	ger274x	outer	1	
VESC_6.4-In1.Cu.gbr	VESC_6.4-In1.Cu_gbr	ger274x	inner	2	
VESC_6.4-In2.Cu.gbr	VESC_6.4-In2.Cu_gbr	ger274x	inner	3	
VESC_6.4-B.Cu.gbr	VESC_6.4-B.Cu_gbr	ger274x	outer	4	
VESC_6.4-B.Mask.gbr	VESC_6.4-B.Mask_gbr	ger274x	mask	bottom	white
VESC_6.4-B.SilkS.gbr	VESC_6.4-B.SilkS_gbr	ger274x	silk	bottom	black
VESC_6.4-B.Paste.gbr	VESC_6.4-B.Paste_gbr	ger274x	paste	bottom	
VESC_6.4.drl	VESC_6.4_drl	excellon2	mixed	1-4	
VESC_6.4-B.Adhes.gbr	VESC_6.4-B.Adhes_gbr	ger274x	glue	bottom	
VESC_6.4-Edge.Cuts.gbr	VESC_6.4-Edge.Cuts_gbr	ger274x	cad_outline	none	
VESC_6.4-F.Adhes.gbr	VESC_6.4-F.Adhes_gbr	ger274x	empty	none	

Input Remarks - Original

Gerber import: Invalid coincident draw, continuing without cleanup 'VESC_6.4-B.Cu.gbr'

Gerber import: Self-intersecting contours are detected, continuing with an interpretation of the contours. 'VESC_6.4-B.Cu.gbr' (at line 4763)

Gerber import: Self-intersecting contours are detected, continuing with an interpretation of the contours. 'VESC_6.4-B.SilkS.gbr' (at line 5273)

Gerber import: Self-intersecting contours are detected, continuing with an interpretation of the contours. 'VESC_6.4-F.Cu.gbr' (at line 5968)

Gerber import: Invalid coincident draw, continuing without cleanup 'VESC_6.4-In1.Cu.gbr'

Gerber import: Self-intersecting contours are detected, continuing with an interpretation of the contours. 'VESC_6.4-In1.Cu.gbr' (at line 3474)

Comments - Original