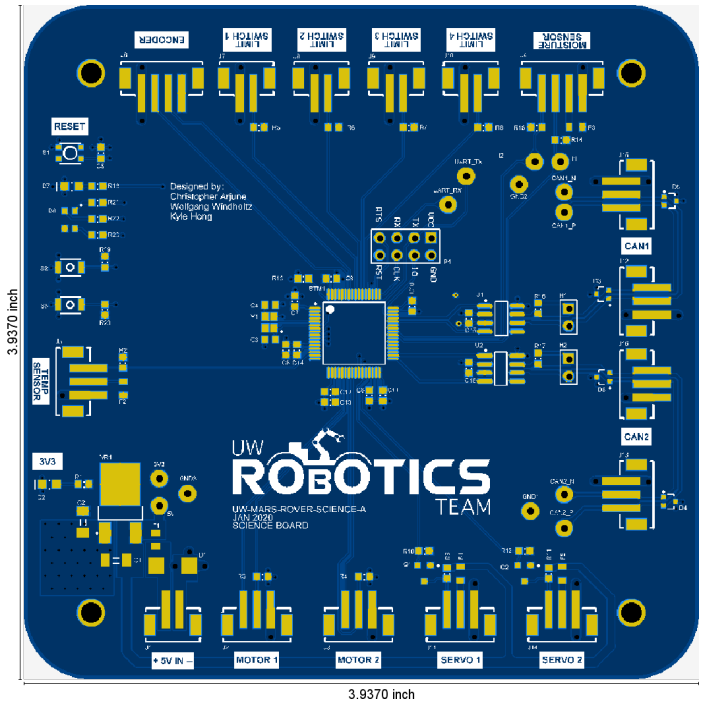
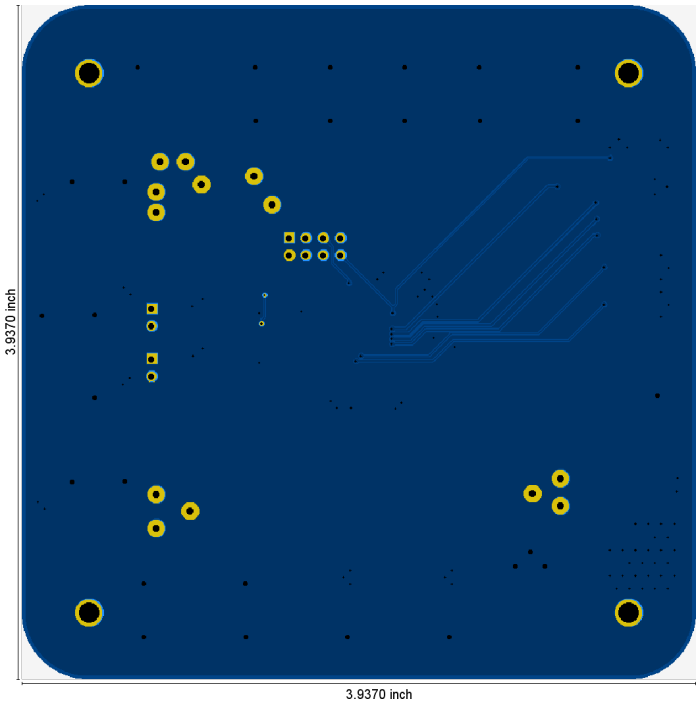
Name	ipgh5rg0.zip	Id.	39526 - QED OK
Report Generated on	Jan 24, 2020 2:32:46 PM	Customer	InstantDFM
Board Id			

Single PCB View - Original

Top View	Bottom View





Summary - General - Original

PCB Size	3.9370 inch x 3.9370 inch	Surface Finish	unknown
PCB Thickness	62.00 mil	Max. Aspect Ratio on PTH	5.2
Customer Panel Size		Number of Nets	111
Copper Layers	2	Electrical Test	Single Sided
Solder Mask	Both	Drilled SMD Pads	No
Solder Mask Color	Blue	SMD Pads Top	288
Legend	Top Only	SMD Pads Bottom	0
Legend Color	White	BGA Pads Top	0
Peeloff Mask	None	BGA Pads Bottom	0
Carbon Mask	None	Drill Hole Density	10 Holes/inch^2
Edge Connectors	No		

Summary - Copper Layer Minima - Original

Layer Type	Copper Width	Critical Copper Width	Trace Width	Critical Trace Width	Copper to Copper Clr.	Trace to Trace	Same Net Clr.	Ring	Plated	Copper to NPTH Clr.	Copper to Outline Clr.
	mil	mil	mil	mil	mil	mil	mil	mil	mil	mil	mil
Outer	1 4.99	2 6.00	3 6.00	4 6.00	5 5.99	6 7.92	7 2.69	8 5.96	9 11.99	10 25.68	11 19.88

Name	ipgh5rg0.zip	Id.	39526 - QED OK
Report Generated on	Jan 24, 2020 2:32:46 PM	Customer	InstantDFM
Board Id			

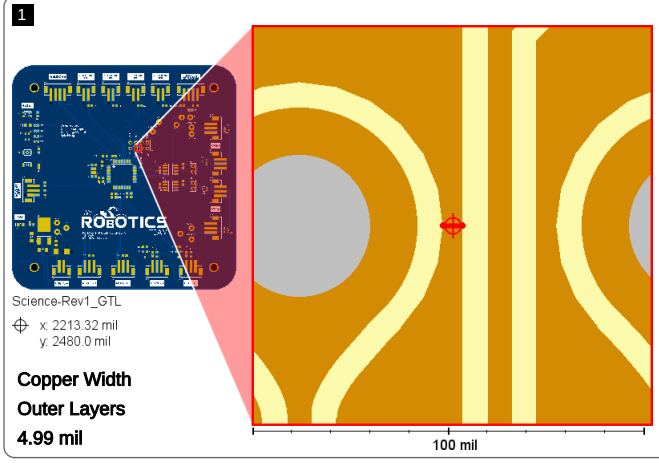
Summary - Sequences - Original

Type	Sequences	Tools	Min. End Dia.	Max. End Dia.	Holes	Moves	Min. Ring on Outer	Min. Ring on Inner	Min. Hole to Copper Clr.
			mil	mil			mil	mil	mil
PTH	1	4	12.00	40.16	150	0	5.96		11.99
NPTH	1	1	118.11	118.11	4	0	>32.00		25.68
Total	2	5	12.00	118.11	154	0	5.96		11.99

Name	ipgh5rg0.zip	Id.	39526 - QED OK
Report Generated on	Jan 24, 2020 2:32:46 PM	Customer	InstantDFM
Board Id			

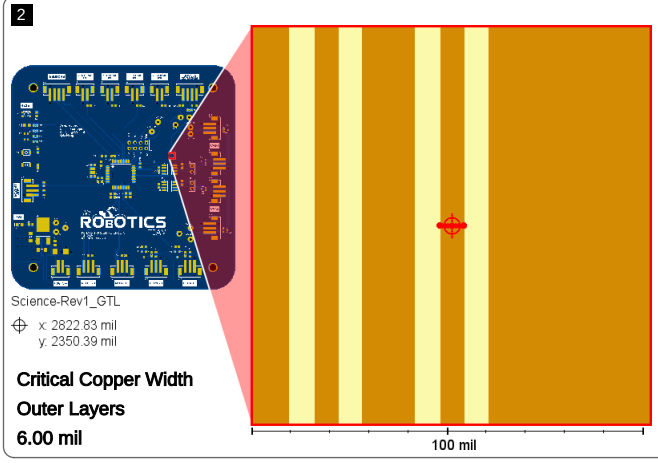
Summary Minimum Design Characteristics - Locations - Original

1



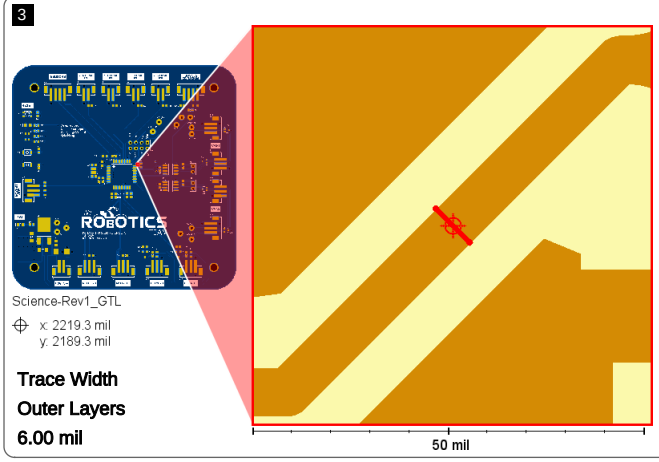
Copper Width
Outer Layers
4.99 mil

2



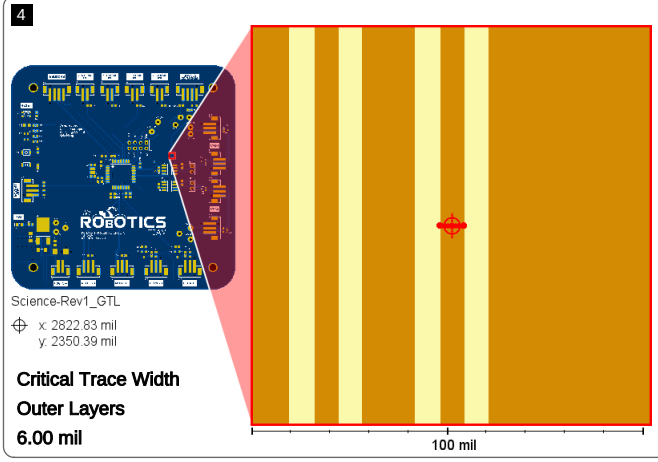
Critical Copper Width
Outer Layers
6.00 mil

3



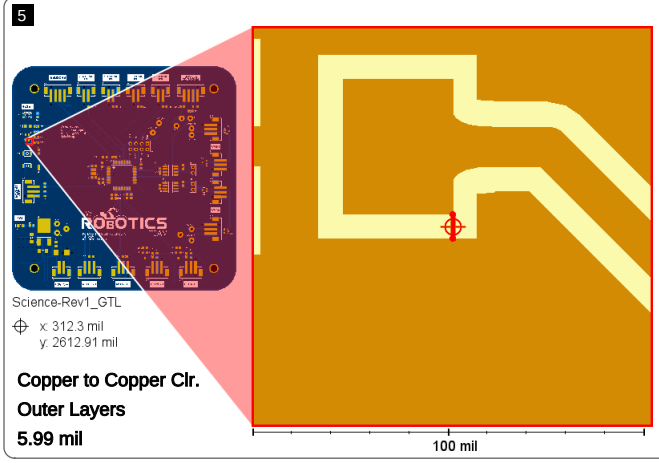
Trace Width
Outer Layers
6.00 mil

4



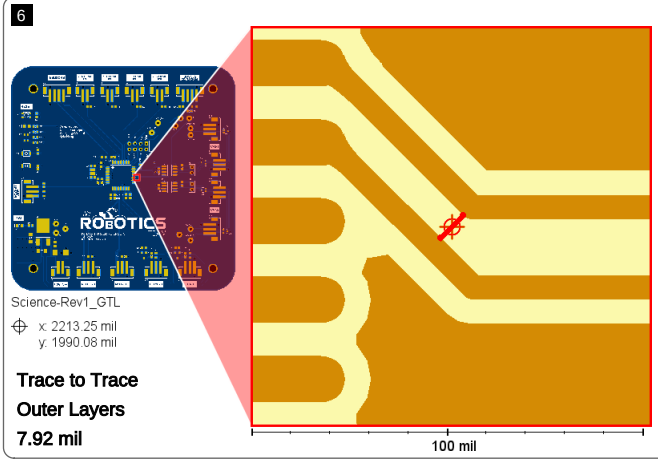
Critical Trace Width
Outer Layers
6.00 mil

5



Copper to Copper Clr.
Outer Layers
5.99 mil

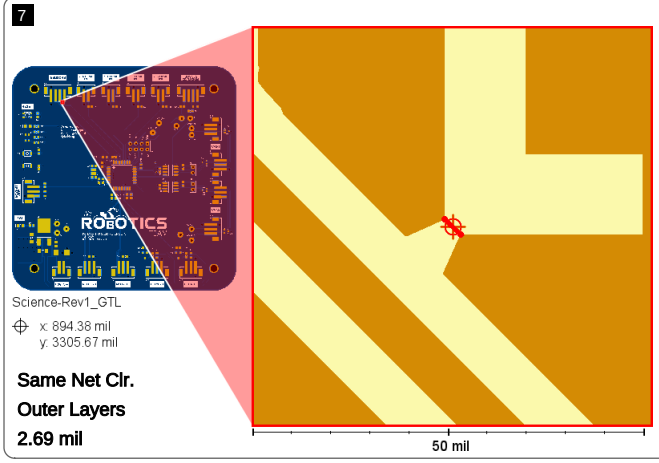
6



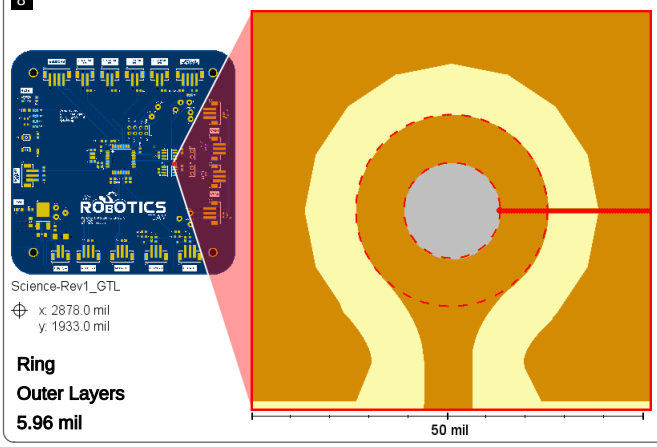
Trace to Trace
Outer Layers
7.92 mil

Name	ipgh5rg0.zip	Id.	39526 - QED OK
Report Generated on	Jan 24, 2020 2:32:47 PM	Customer	InstantDFM
Board Id			

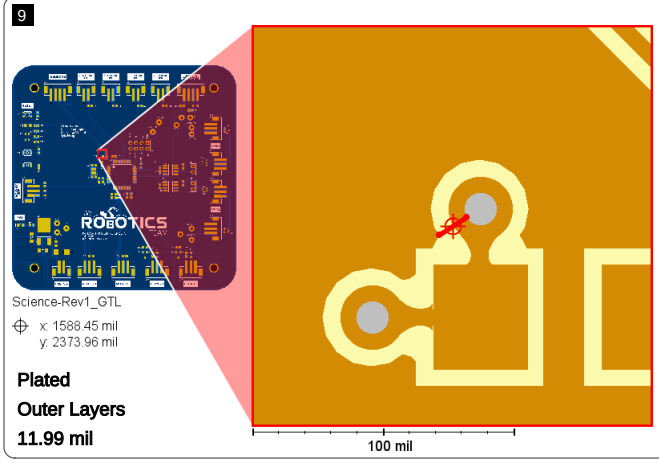
7



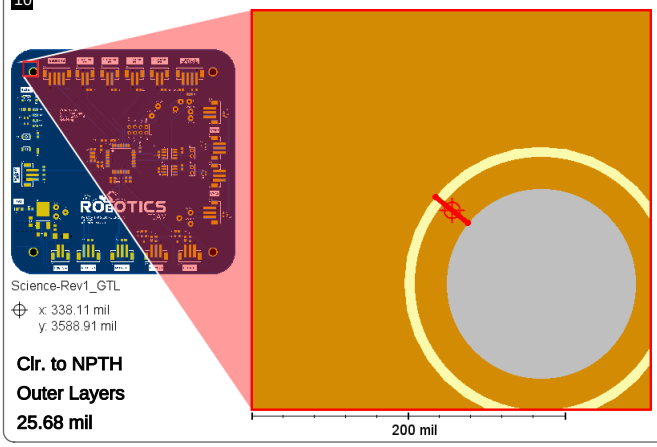
8



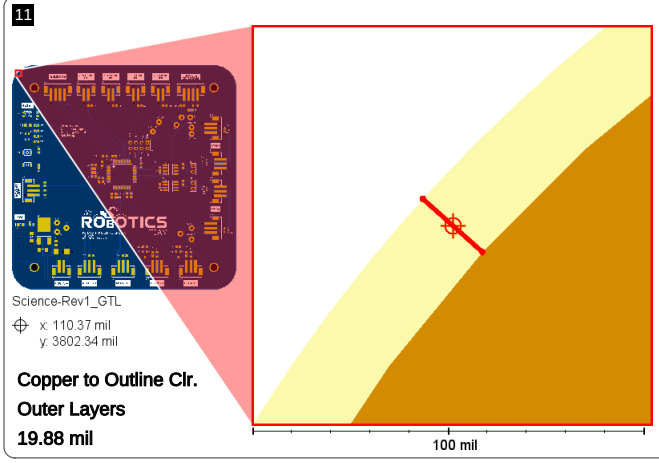
9



10



11



Stackup - Original

Pressing Stages	1

Name	ipgh5rg0.zip	Id.	39526 - QED OK
Report Generated on	Jan 24, 2020 2:32:47 PM	Customer	InstantDFM
Board Id			

Copper Layer Minima & 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^2	%
Science-Rev1_GTL	1	4.99	6.00	6.00	6.00	5.99	2.69	13.9659	91
Science-Rev1_GBL	2	4.99	6.00	6.00	6.00	5.99	18.34	14.8630	97

Copper Layer Minima - Copper vs Drill - Original

File	Pos.	Ring					Copper vs Drill Clr.		Copper to Outline Clr.			
		Overall	Via	Laser Via	Comp.	Mech.	Plated	NPTH	Overall	Pad to Outline	Track to Outline	Region to Outline
		mil	mil	mil	mil	mil	mil	mil	mil	mil	mil	mil
Science-Rev1_GTL	1	5.96	5.96		11.75		11.99	25.68	19.88	>64.00	>64.00	19.88
Science-Rev1_GBL	2	6.00	6.00		11.82		11.99	25.68	19.88	>64.00	>64.00	19.88

Drill Tools - Original

File	Tool Nr.	Span	Type	Method	Filled Via	Counter	Dia.	Tol. Min	Tol. Plus	Holes (in PCB)	Moves (in PCB)	Double Hits (in File)	Predrill Hits (in File)
							mil	mil	mil				
Science-Rev1_TXT	1	1-2	PTH	unknown	unknown	unknown	12.00	0.00	0.00	97	0	0	0
Science-Rev1_TXT	2	1-2	PTH	unknown	unknown	unknown	28.00	0.00	0.00	28	0	0	0
Science-Rev1_TXT	3	1-2	PTH	unknown	unknown	unknown	35.43	0.00	0.00	12	0	0	0
Science-Rev1_TXT	4	1-2	PTH	unknown	unknown	unknown	40.16	0.00	0.00	13	0	0	0
Science-Rev1_TXT	5	1-2	NPTH	unknown	unknown	unknown	118.11	0.00	0.00	4	0	0	0

Drill Tools - Drill vs Copper - Original

File	Tool Nr.	Span	Type	Method	Dia.	Min. Ring on Outer	Min. Ring on Inner	Min. Pad Size
					mil	mil	mil	mil
Science-Rev1_TXT	1	1-2	PTH	unknown	12.00	5.96		23.92
Science-Rev1_TXT	2	1-2	PTH	unknown	28.00	11.00		50.00
Science-Rev1_TXT	3	1-2	PTH	unknown	35.43	11.75		58.93
Science-Rev1_TXT	4	1-2	PTH	unknown	40.16	29.88		99.92
Science-Rev1_TXT	5	1-2	NPTH	unknown	118.11	>32.00		

Sequences - Original

Span	Type	Tools	Min. End Dia.	Max. End Dia.	Holes	Min. Ring on Outer	Min. Ring on Inner	Min. Hole to Copper Clr.	Min. Hole to Outline Clr.	Min. Slot to Outline Clr.
			mil	mil		mil	mil	mil	mil	mil
1-2	PTH	4	12.00	40.16	150	5.96		11.99	85.59	disabled
1-2	NPTH	1	118.11	118.11	4	>32.00		25.68	>256.00	disabled
All	All	5	12.00	118.11	154	5.96		11.99	85.59	disabled

Name	ipgh5rg0.zip	Id.	39526 - QED OK
Report Generated on	Jan 24, 2020 2:32:47 PM	Customer	InstantDFM
Board Id			

Rout Tools - Original

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

Routed Holes - Original

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

Solder Mask - Original

Side	Min. Mask to Mask Clr.	Min. Web	Min. Ring on Cu Defined Pads	Min. Ring on SM Defined Pads	Min. Mask to Copper Clr.	Fully Covered Via Holes	Partly Covered Via Holes	Half Mask Vias
	mil	mil	mil	mil	mil			
Top	>10.00	3.81	4.00	>10.00	0.34	Yes	No	
Bottom	>10.00	>10.00	4.00	>10.00	1.99	Yes	No	
Both	>10.00	3.81	4.00	>10.00	0.34	Yes	No	No

Files - Original

Initial	Renamed	Format	Function	Position	Color
Science-Rev1.GTP	Science-Rev1_GTP	ger274x	paste	top	
Science-Rev1.GTO	Science-Rev1_GTO	ger274x	silk	top	white
Science-Rev1.GTS	Science-Rev1_GTS	ger274x	mask	top	blue
Science-Rev1.GTL	Science-Rev1_GTL	ger274x	outer	1	
Science-Rev1.GBL	Science-Rev1_GBL	ger274x	outer	2	
Science-Rev1.GBS	Science-Rev1_GBS	ger274x	mask	bottom	blue
Science-Rev1.TXT	Science-Rev1_TXT	excellon2	mixed	1-2	
Science-Rev1.GBO	Science-Rev1_GBO	ger274x	empty	none	
Science-Rev1.GBP	Science-Rev1_GBP	ger274x	empty	none	
Science-Rev1.GM2	Science-Rev1_GM2	ger274x	mechanical	none	

Input Remarks - Original

Gerber import: Self-intersecting contours are detected, continuing with an interpretation of the contours. 'Science-Rev1.GTO' (at line 834)

Comments - Original