

- Note:
1. Material FR4 0.062" thick 4 layer board
 2. All layers 1 oz copper finished
 3. Silk screen and solder mask both sides

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		DIMENSIONS ARE IN INCHES	DRAWN	BDL	7/13/2017	TITLE		
		TOLERANCES:	CHECKED			Hologram Nova 1.0		
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.			SIZE	DWG. NO.	Rev J
		THREE PLACE DECIMAL ±	COMMENTS:			SCALE: 1:1	WEIGHT:	SHEET 1 OF 4
		INTERPRET GEOMETRIC TOLERANCING PER:						
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON	DO NOT SCALE DRAWING						
APPLICATION								

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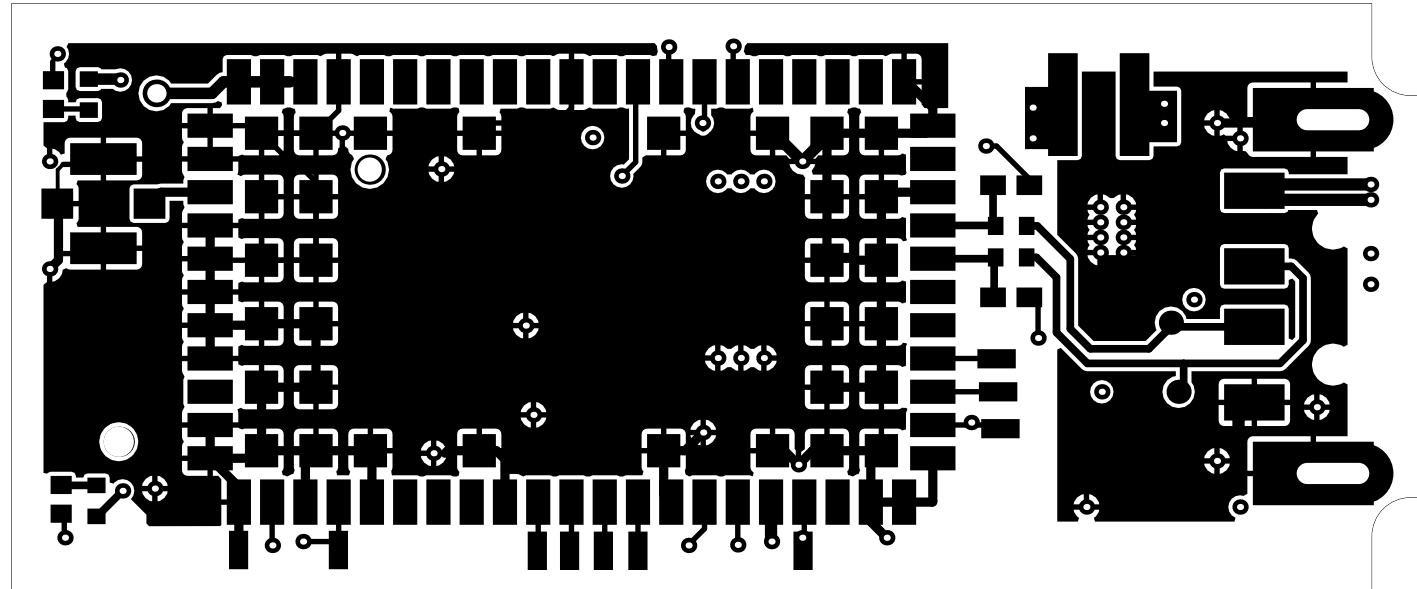
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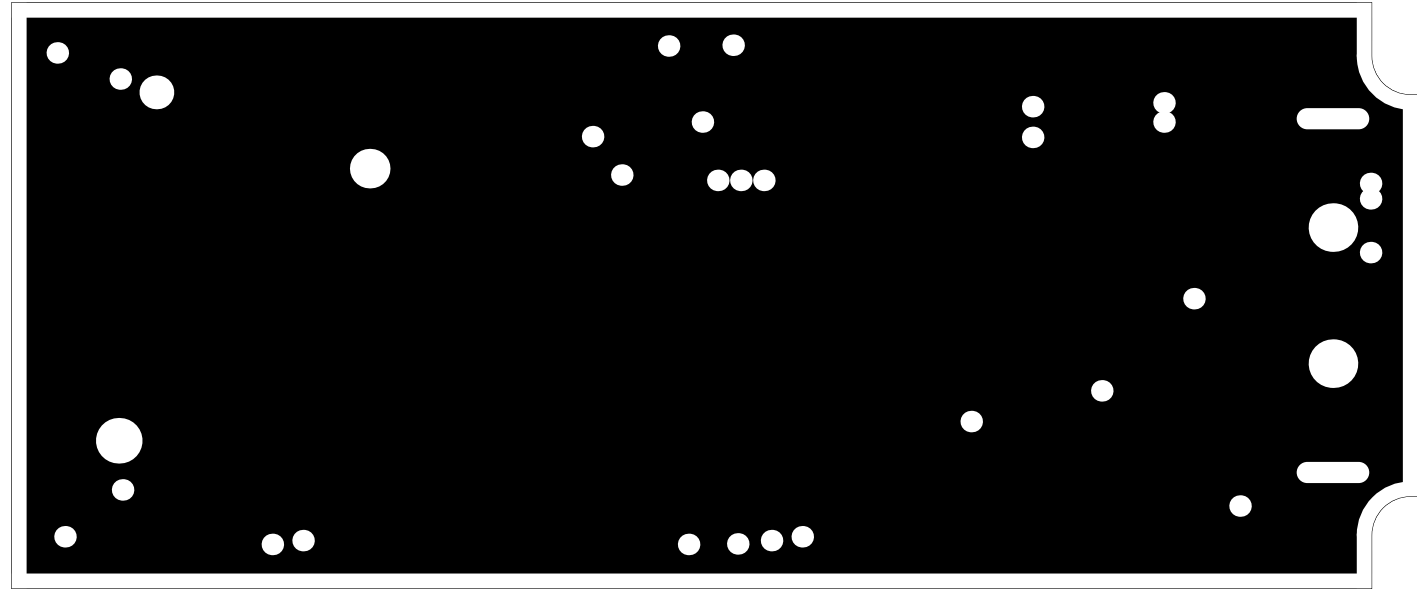
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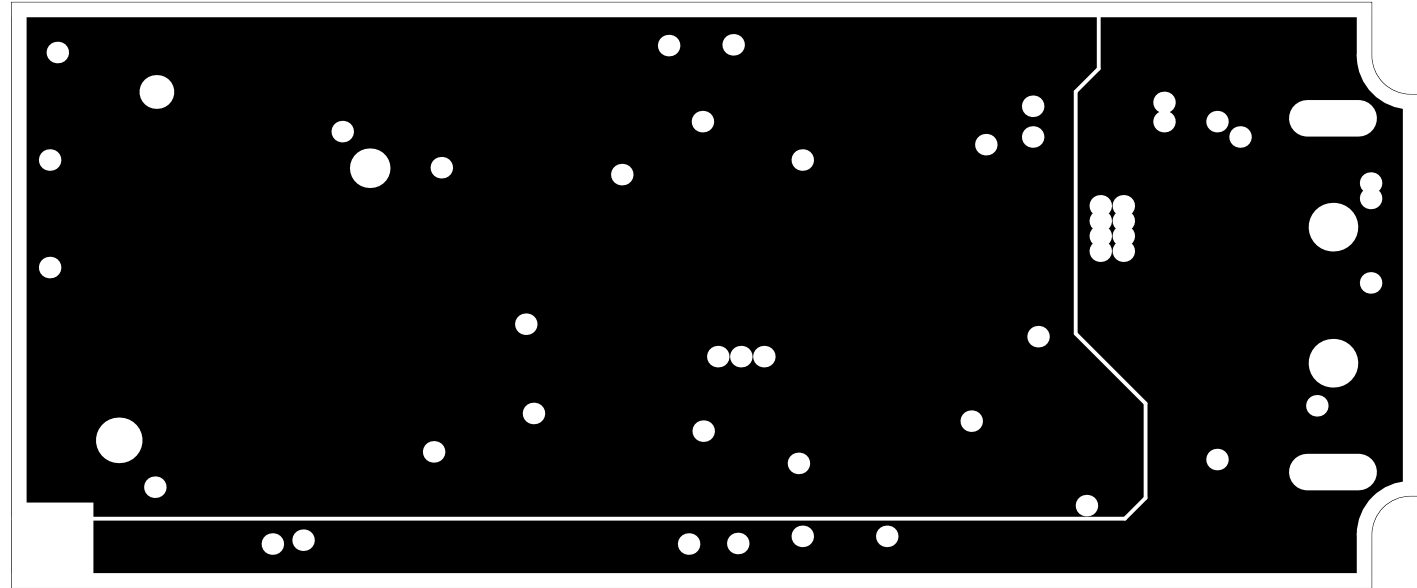
Top Layer (Scale 4:1)



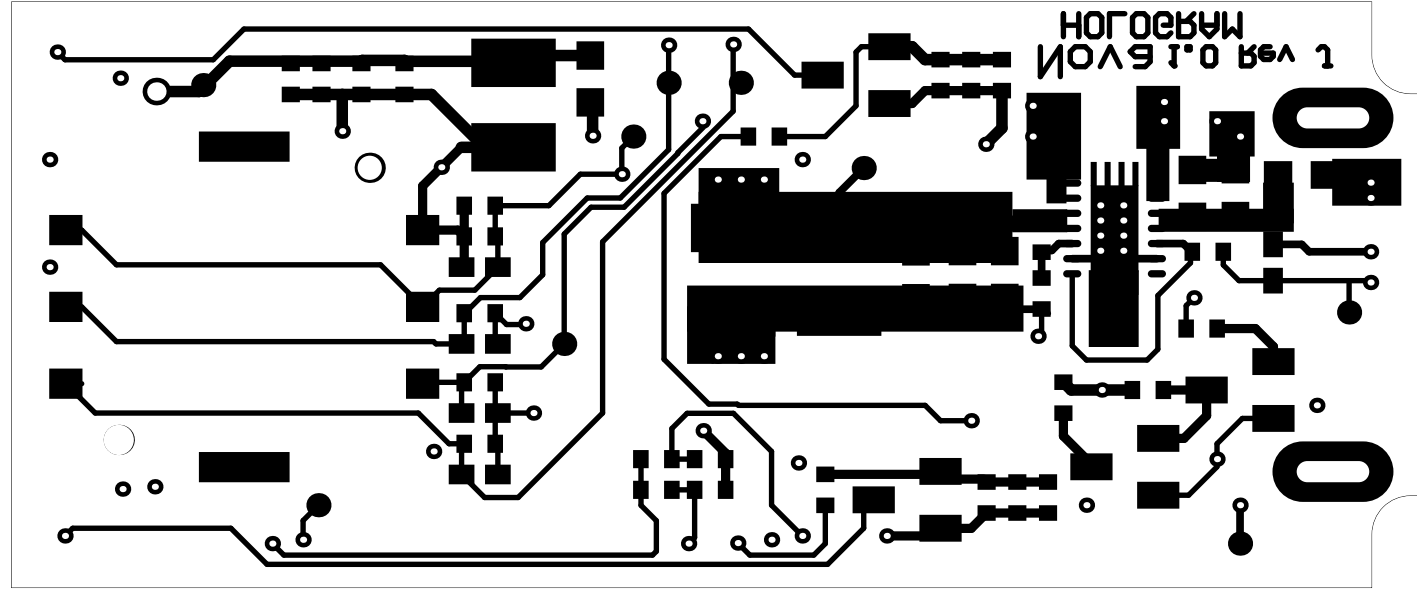
Internal Plane 1 (Scale 4:1)



Internal Plane 2 (Scale 4:1)



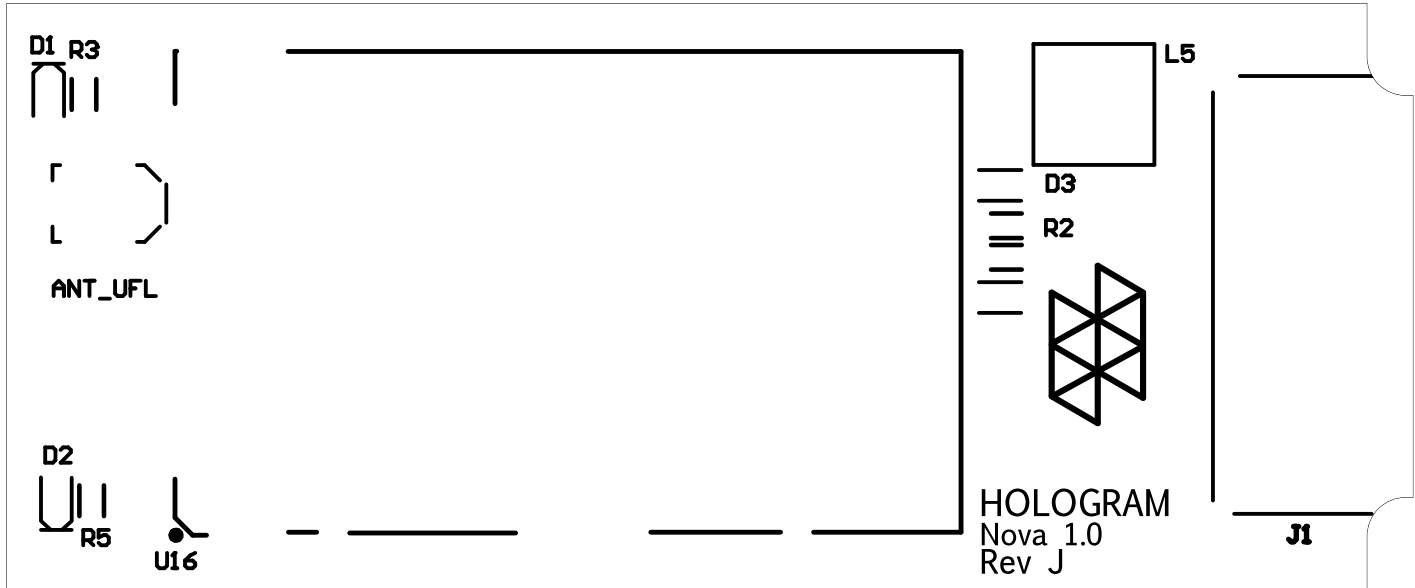
Bottom Layer (Scale 4:1)



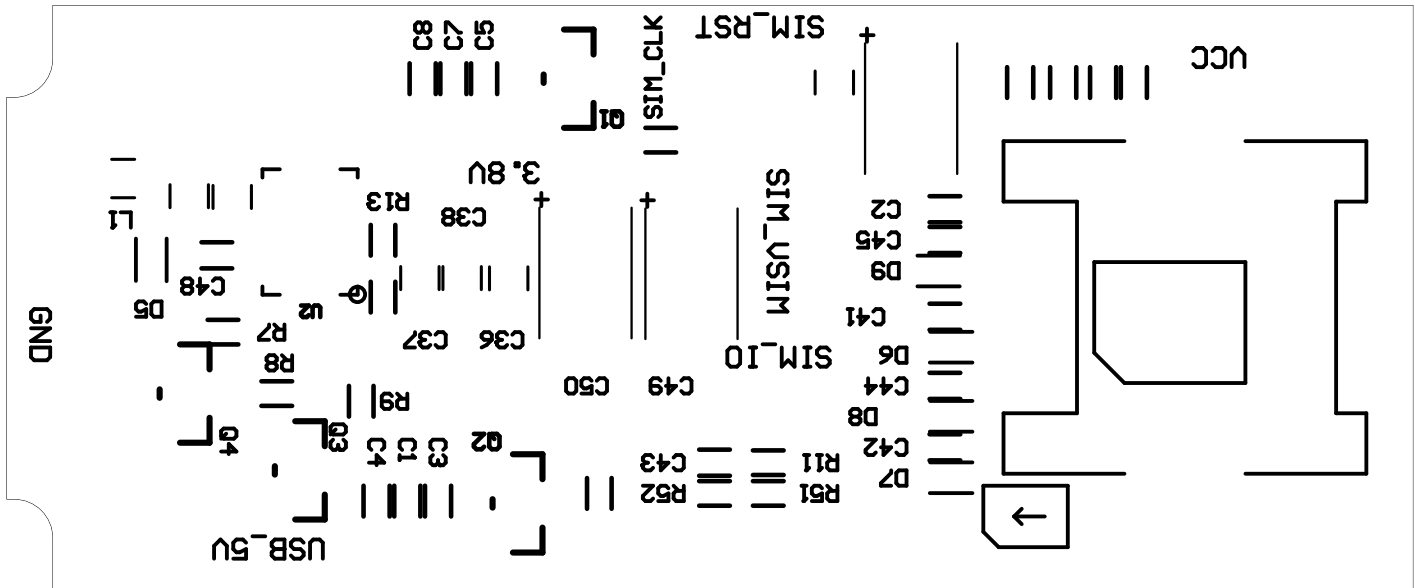
Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
Surface Material	Top Paste			Paste Mask	GTP
	Top Overlay			Legend	GTO
	Top Solder	0.4mil(0.010mm)	Solder Resist	Solder Mask	GTS
Copper	Top Layer	1.4mil(0.036mm)		Signal	GTL
Prepreg		8.0mil(0.203mm)		Dielectric	
Copper	Internal Plane 1	1.4mil(0.036mm)		Internal Plane	GP1
Core		40.0mil(1.016mm)	FR4	Dielectric	
Copper	Internal Plane 2	1.4mil(0.036mm)		Internal Plane	GP2
Prepreg		8.0mil(0.203mm)		Dielectric	
Copper	Bottom Layer	1.4mil(0.036mm)		Signal	GBL
Surface Material	Bottom Solder	0.4mil(0.010mm)	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
	Bottom Paste			Paste Mask	GBP
Total thickness: 62.4mil(1.585mm)					

Top Overlay (Scale 4:1)



Bottom Overlay (Scale 4:1)



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				DRAWN	BDL	7/13/2017	TITLE	
				CHECKED			Hologram Nova 1.0	
				ENG APPR.				
NEXT ASSY		USED ON		MFG APPR.		Q.A.	COMMENTS:	
APPLICATION							SIZE	DWG. NO.
							SCALE: 1:1	WEIGHT:
							SHEET 2 OF 4	

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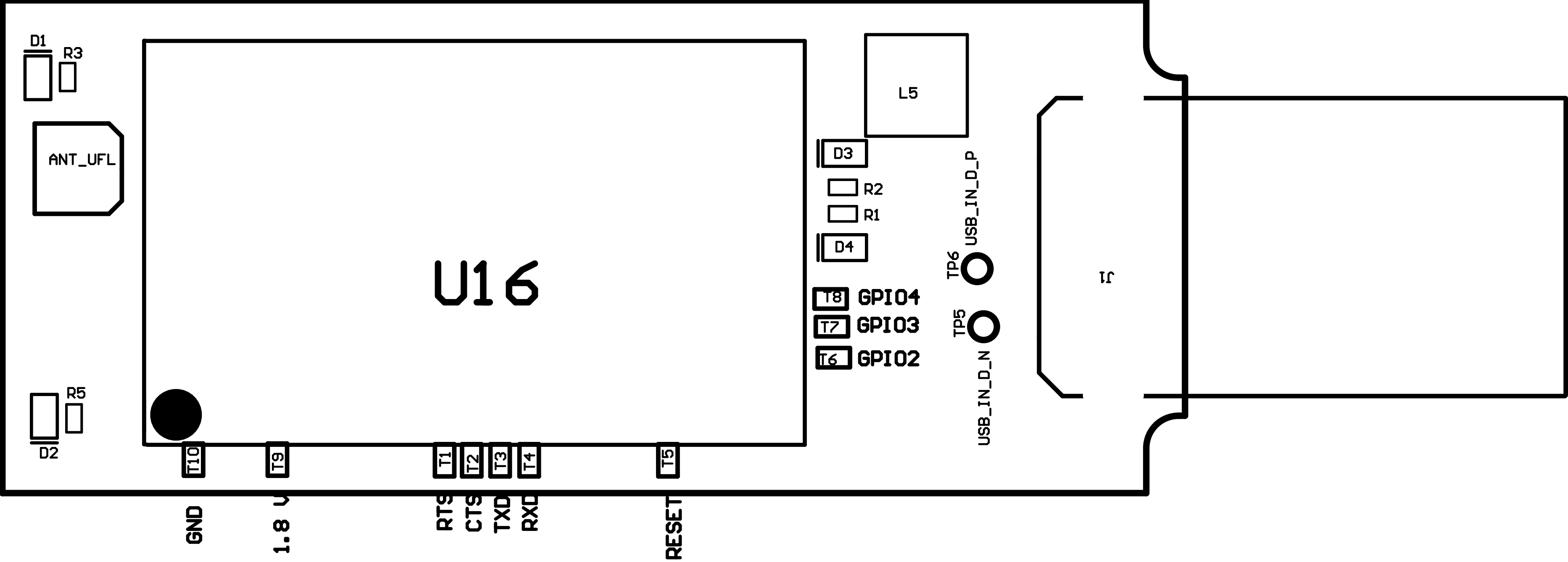
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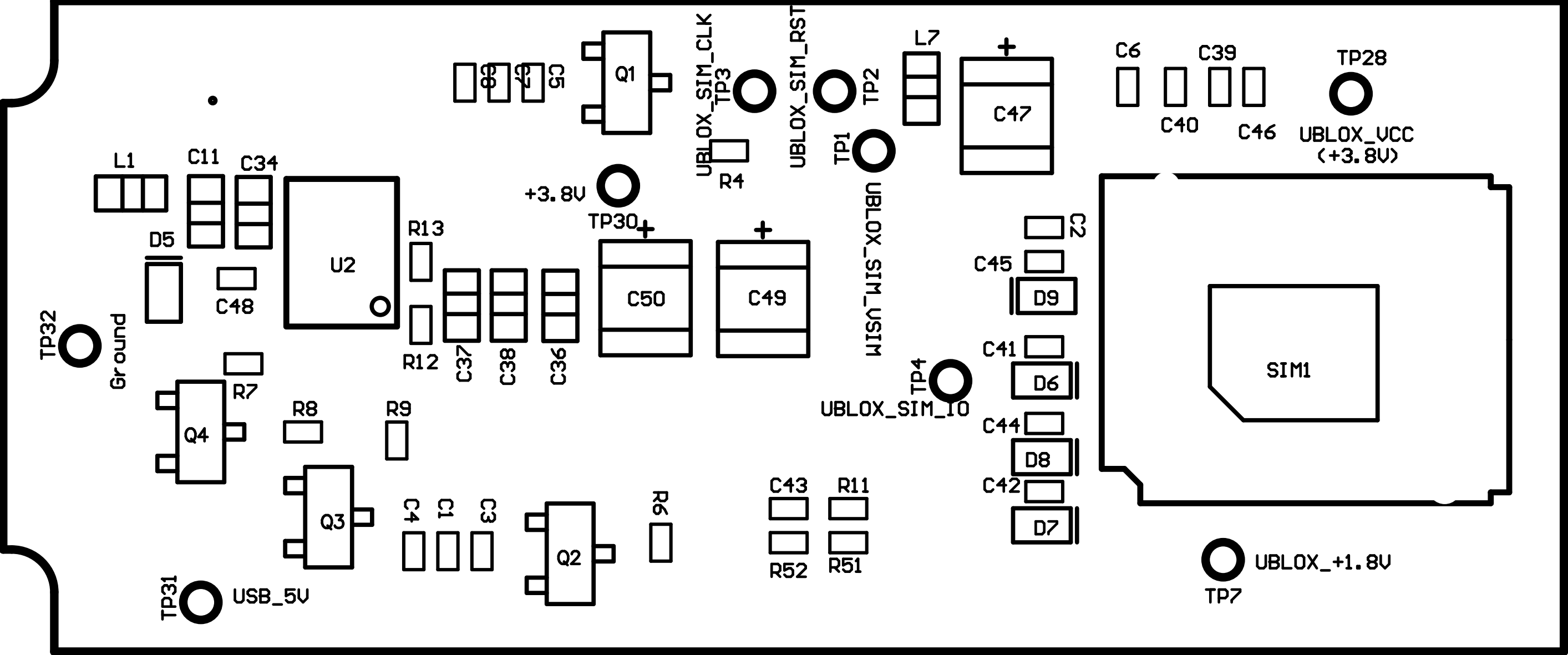
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Mechanical 1 (Scale 8:1)



Mechanical 2 (Scale 8:1)



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		TOLERANCES:	CHECKED					
		FRACTIONAL: ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±				SIZE DWG. NO.		
		THREE PLACE DECIMAL ±						
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SCALE: 1:1 WEIGHT: SHEET 3 OF 4		
		MATERIAL	COMMENTS:					
		FINISH						
NEXT ASSY	USED ON	DO NOT SCALE DRAWING						
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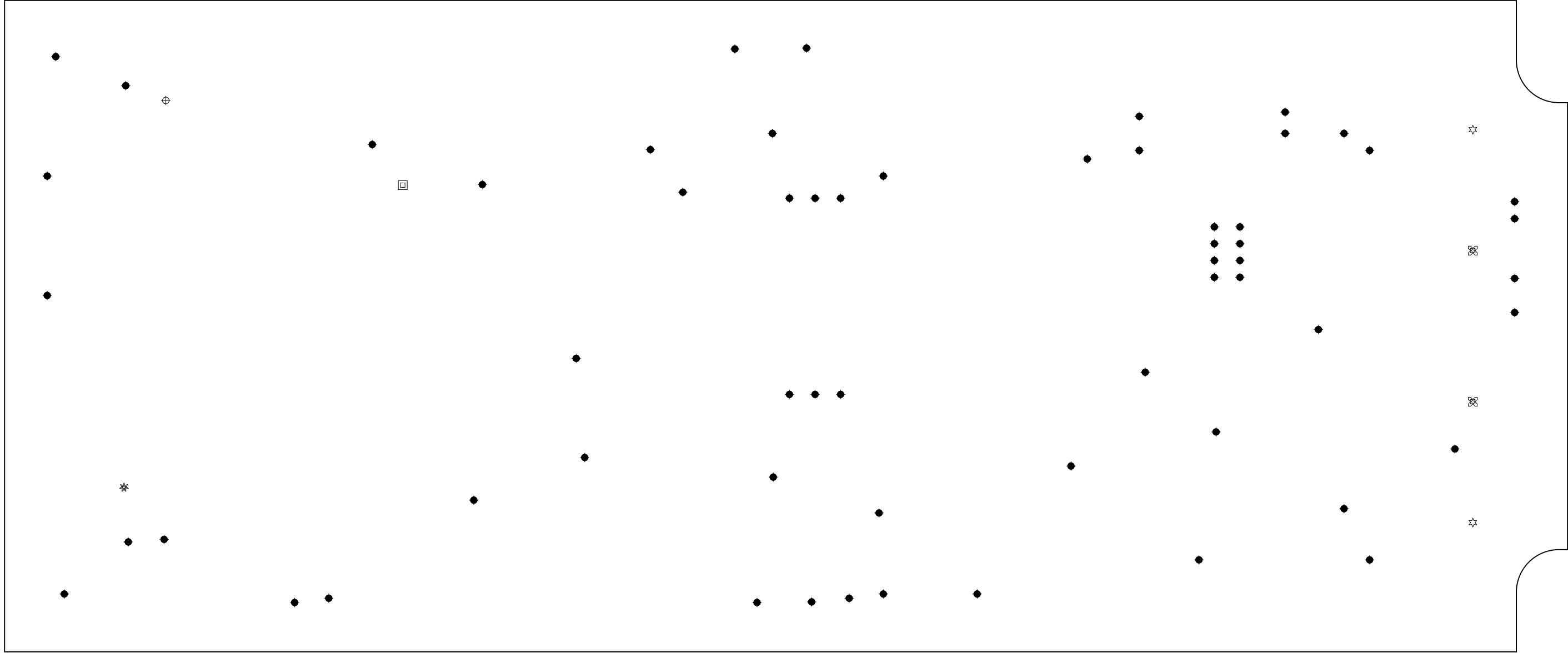
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Drill Drawing View (Scale 8:1)



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
●	60	8.0	Plated	None
⊕	1	24.0	Plated	None
☆	2	27.6	Plated	None
⊞	1	31.5	Plated	None
✱	1	39.4	Plated	None
⊞	2	43.3	Non-Plated	None
67 Total				

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		THREE PLACE DECIMAL ±						
		INTERPRET GEOMETRIC TOLERANCING PER:				SIZE	DWG. NO.	
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON	DO NOT SCALE DRAWING				SCALE: 1:1	WEIGHT:	SHEET 4 OF 4
APPLICATION								

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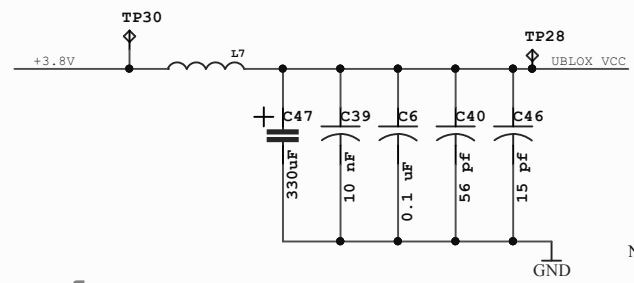
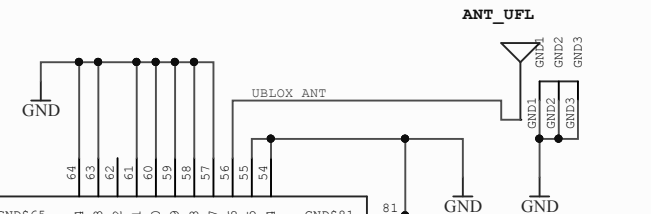
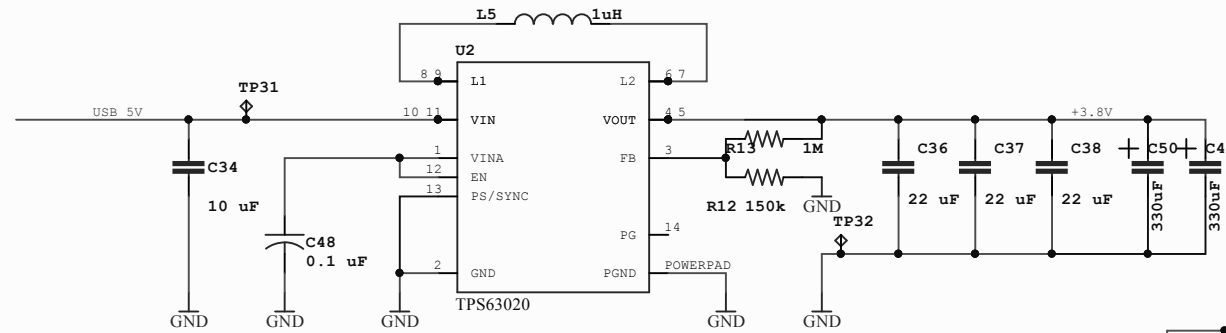
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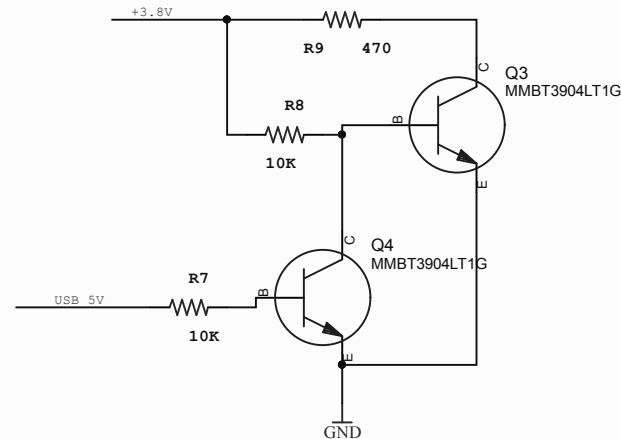
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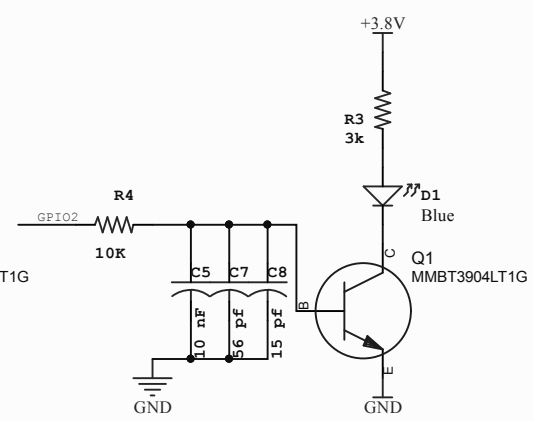
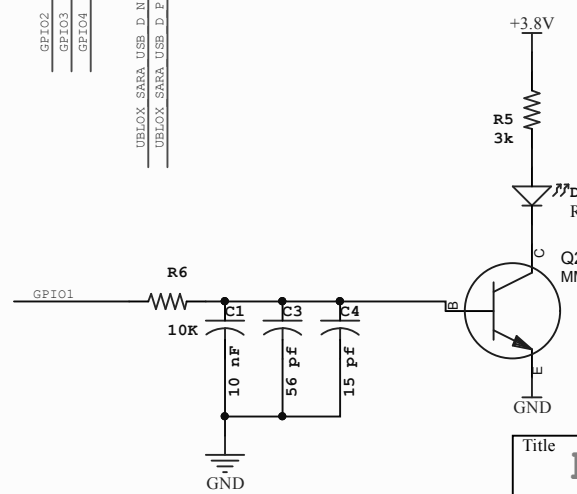
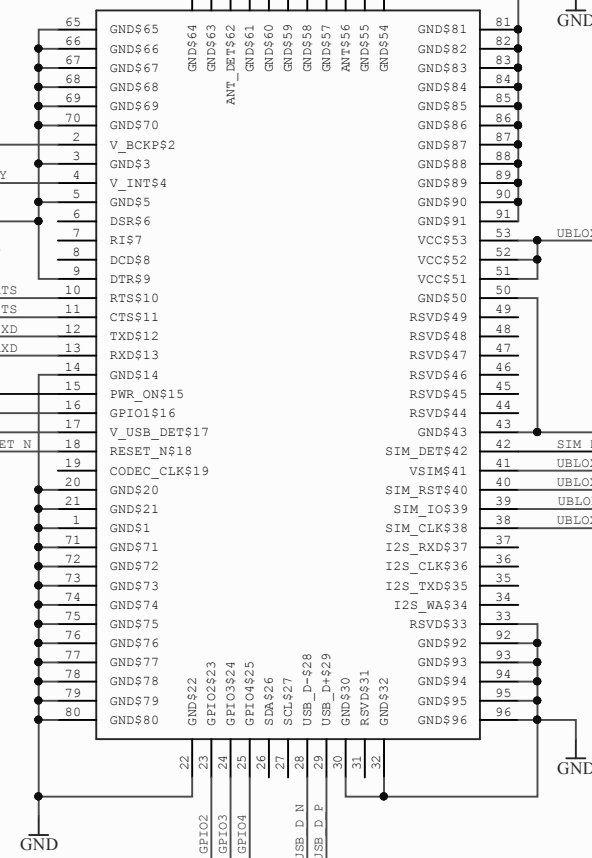
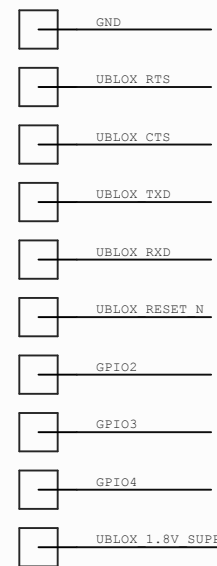
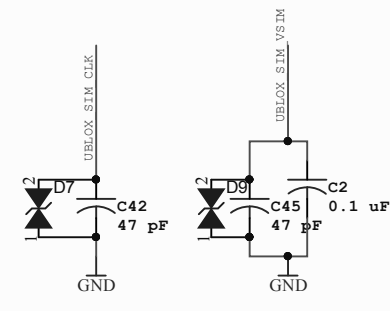
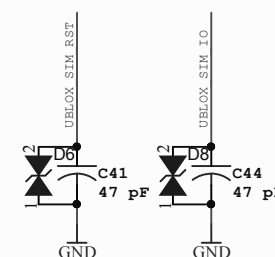
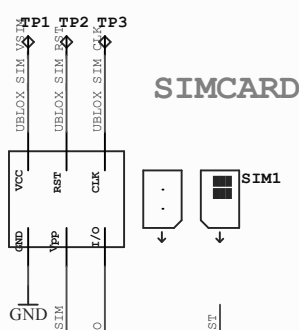
+3.8V VREG



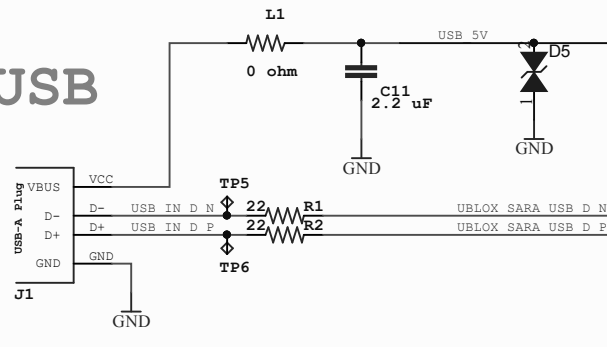
+3.8V Discharge



SIMCARD



USB



Hologram Nova 1.0

Size	B	Revision	J
Date	4/19/2017	Sheet 1 of	1