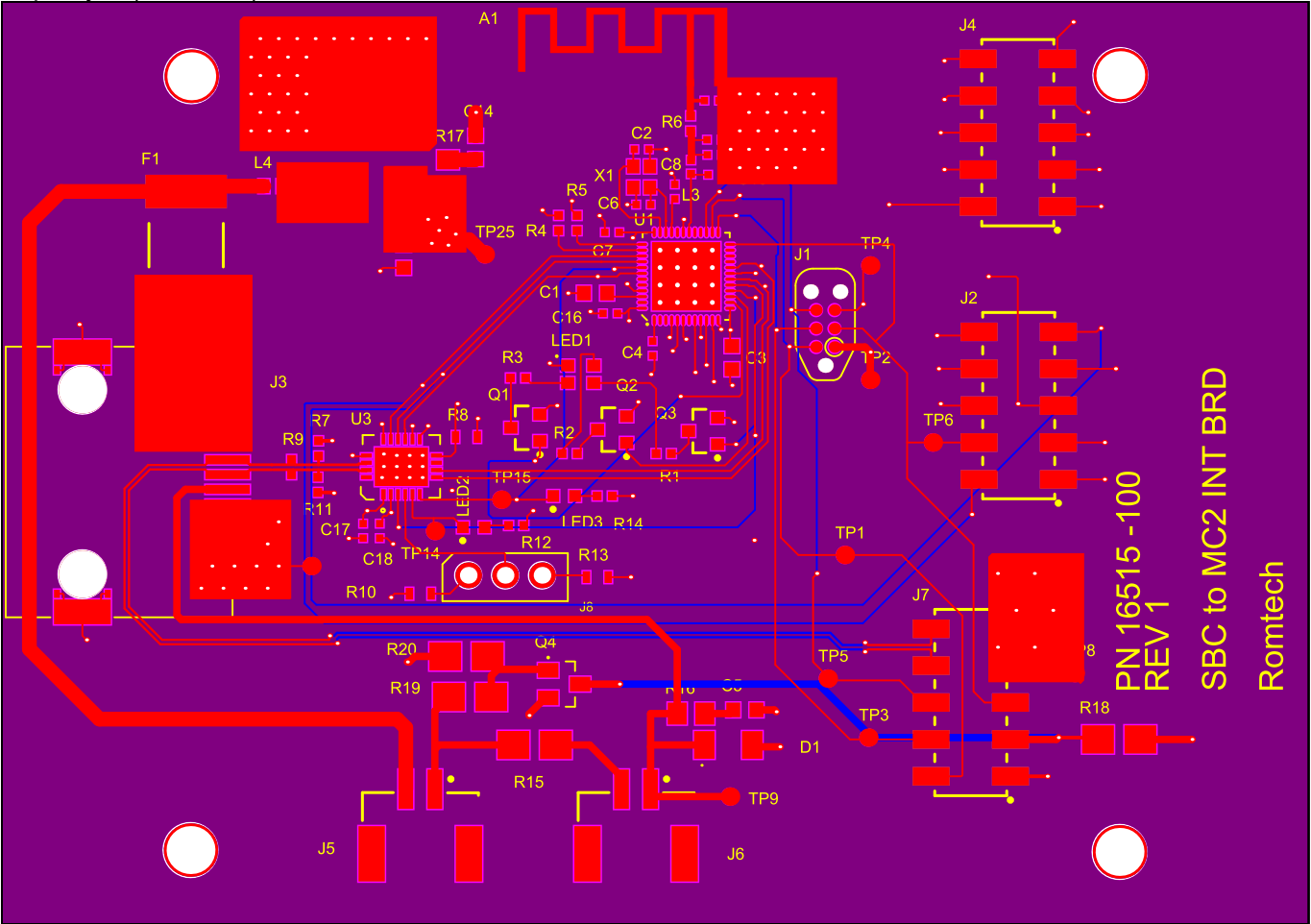


REV	Description	Date	Appr
1.0	1. Initial release	3/14/2023	FKA

Top Layer (Scale 2:1)



- Notes: (All Dimensions are in mm)
- Board Material FR-4
  - Class 2 circuit board per IPC standards, current revision
  - All dimensional tolerances per IPC-2615
  - All plating per IPC-6011 class 2 - 1 oz finished copper
  - SMOBC - ENIG, 2-8 micro inches gold over 150-250 micro inches nickel per IPC-4552, category 2, on all exposed copper
  - LPI solder mask both sides green per IPC-sm-840c
  - Silkscreen top and bottom sides with white epoxy ink
  - Boards to be U.L. recognized (zpmv2); with minimum flammability rating of 94V-0; and shall be so marked
  - All boards to be cleaned, inspected, and date stamped
  - Workmanship to be equal to and compliant with the requirements of IPC-A-610
  - Boards to be electrical tested per IPC- 9252 and marked or stamped to show that the board passed.
  - Boards should be RoHs compliant

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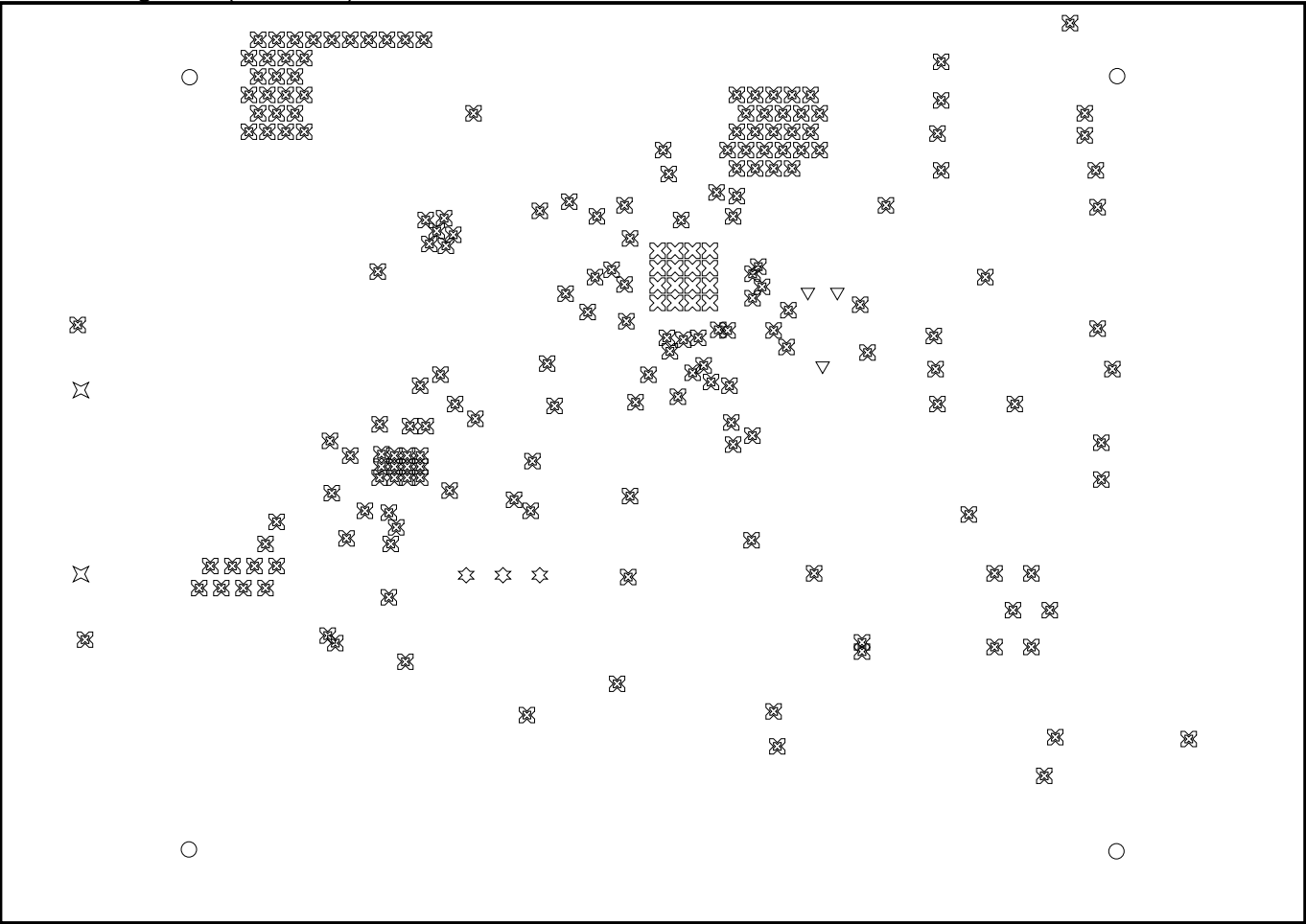
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		FRACTIONAL±	ENG APPR.						
		ANGULAR: MACH±    BEND ±	MFG APPR.						
		TWO PLACE DECIMAL   ±							
		THREE PLACE DECIMAL   ±	Q.A.			COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:							
		MATERIAL				SIZE	DWG. NO.	Rev	
							16515-100	1	
NEXT ASSY	USED ON	FINISH							
APPLICATION		DO NOT SCALE DRAWING				SCALE:	1:1	WEIGHT:	SHEET 1 OF 9

1

1

Drill Drawing View (Scale 2:1)



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
⊗	191	0.20mm	Plated	
⊗	16	0.33mm	Plated	
▽	3	1.02mm	Non-Plated	
☆	3	1.15mm	Plated	
✧	2	3.25mm	Non-Plated	
○	4	3.30mm	Plated	
219 Total				

2

2

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		THREE PLACE DECIMAL   ±				SIZE    DWG. NO.  16515-100  Rev  1			
		INTERPRET GEOMETRIC	Q.A.						
		TOLERANCING PER:	COMMENTS:						
		MATERIAL							
NEXT ASSY	USED ON	FINISH							
APPLICATION		DO NOT SCALE DRAWING				SCALE:	1:1	WEIGHT:	SHEET 2 OF 9

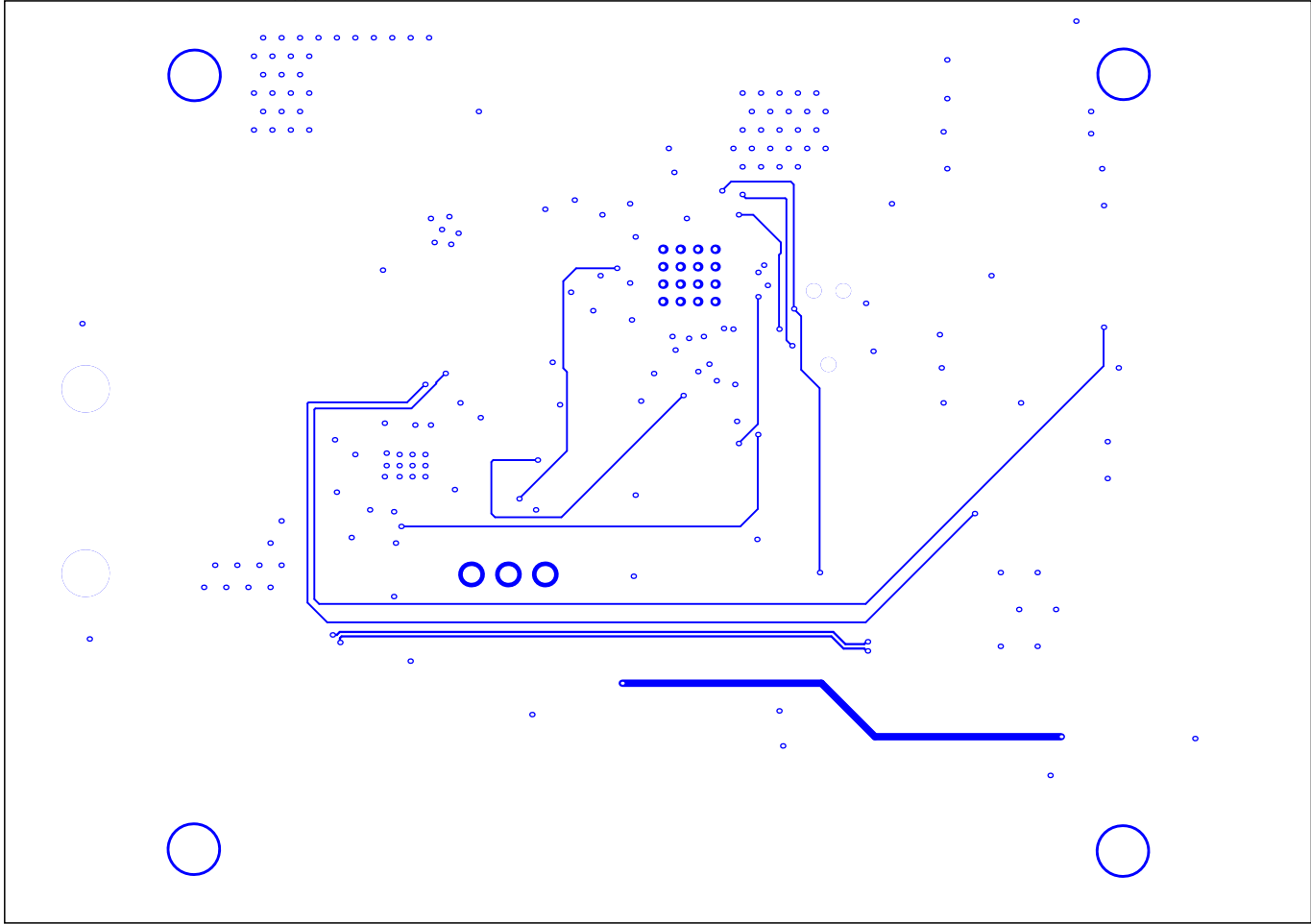
A

B

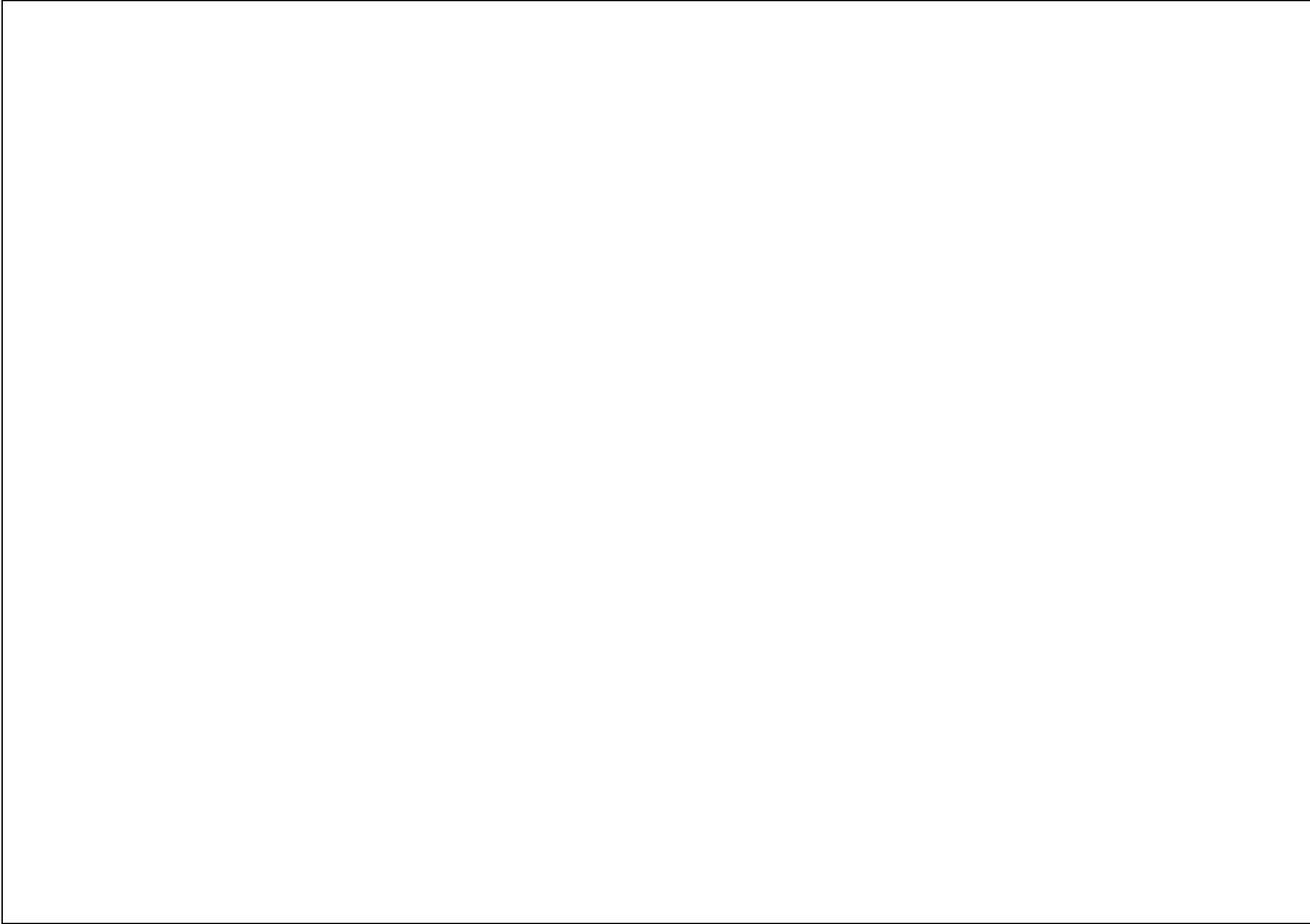
C

D

Bottom Layer (Scale 2:1)



Bottom Paste (Scale 2:1)



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		THREE PLACE DECIMAL ±	COMMENTS:			SIZE DWG. NO. 16515-100 Rev 1		
		INTERPRET GEOMETRIC TOLERANCING PER:						
		MATERIAL						
NEXT ASSY	USED ON	FINISH						
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:1	WEIGHT:	SHEET 3 OF 9

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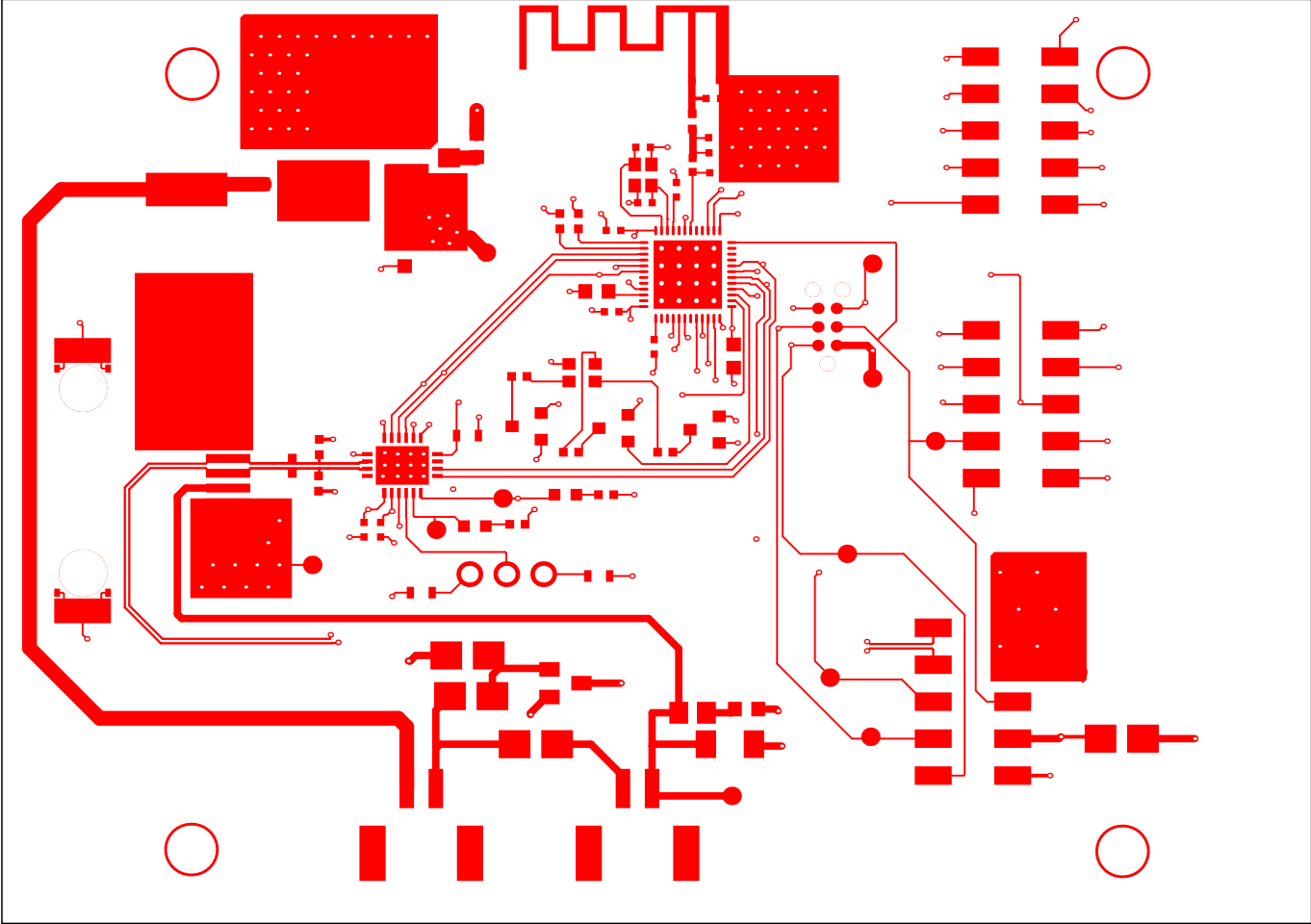
A

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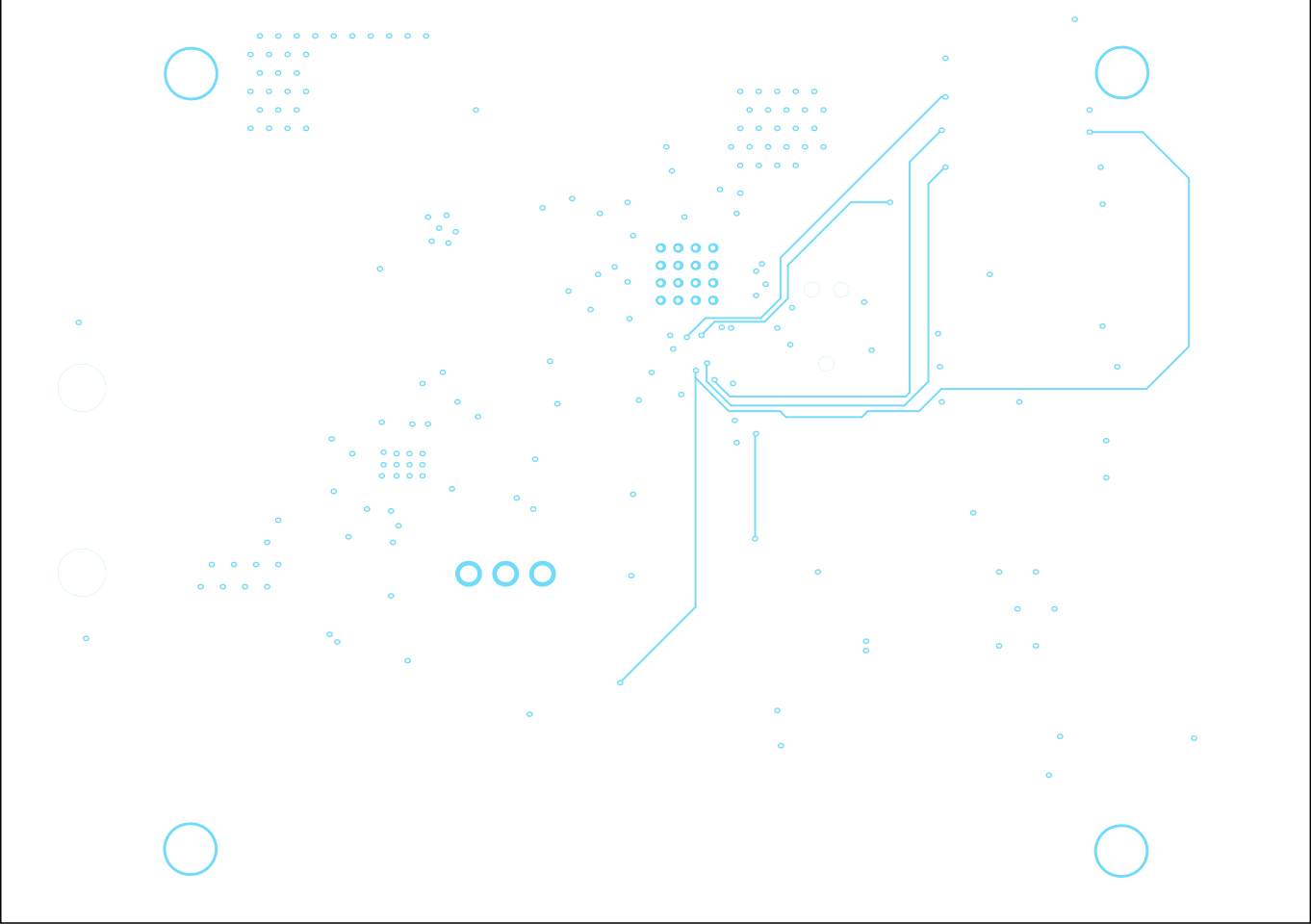
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D

Top Layer (Scale 2:1)



SIG\_2 (Scale 2:1)



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		MATERIAL						
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APPLICATION		DO NOT SCALE DRAWING						

A

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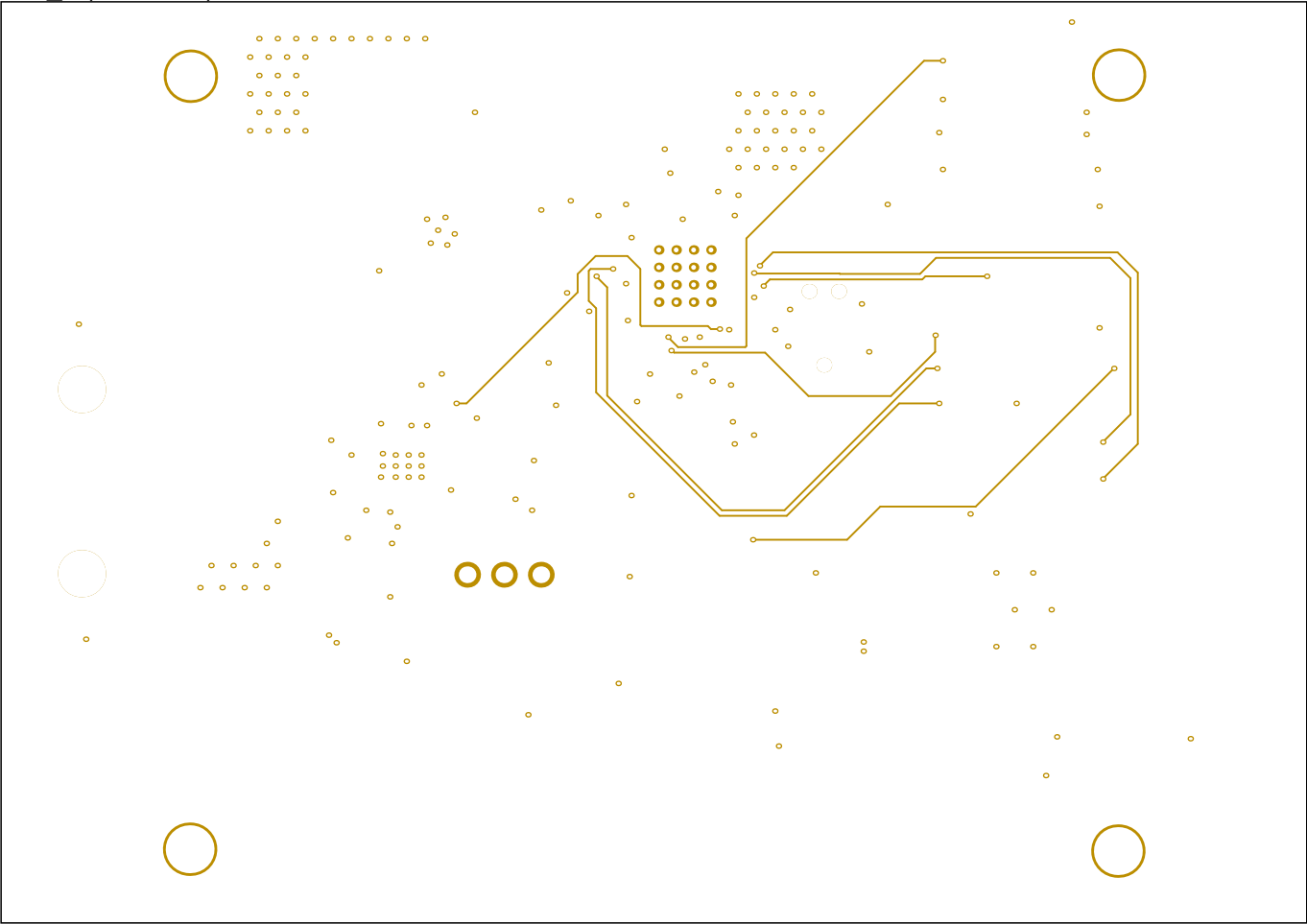
A

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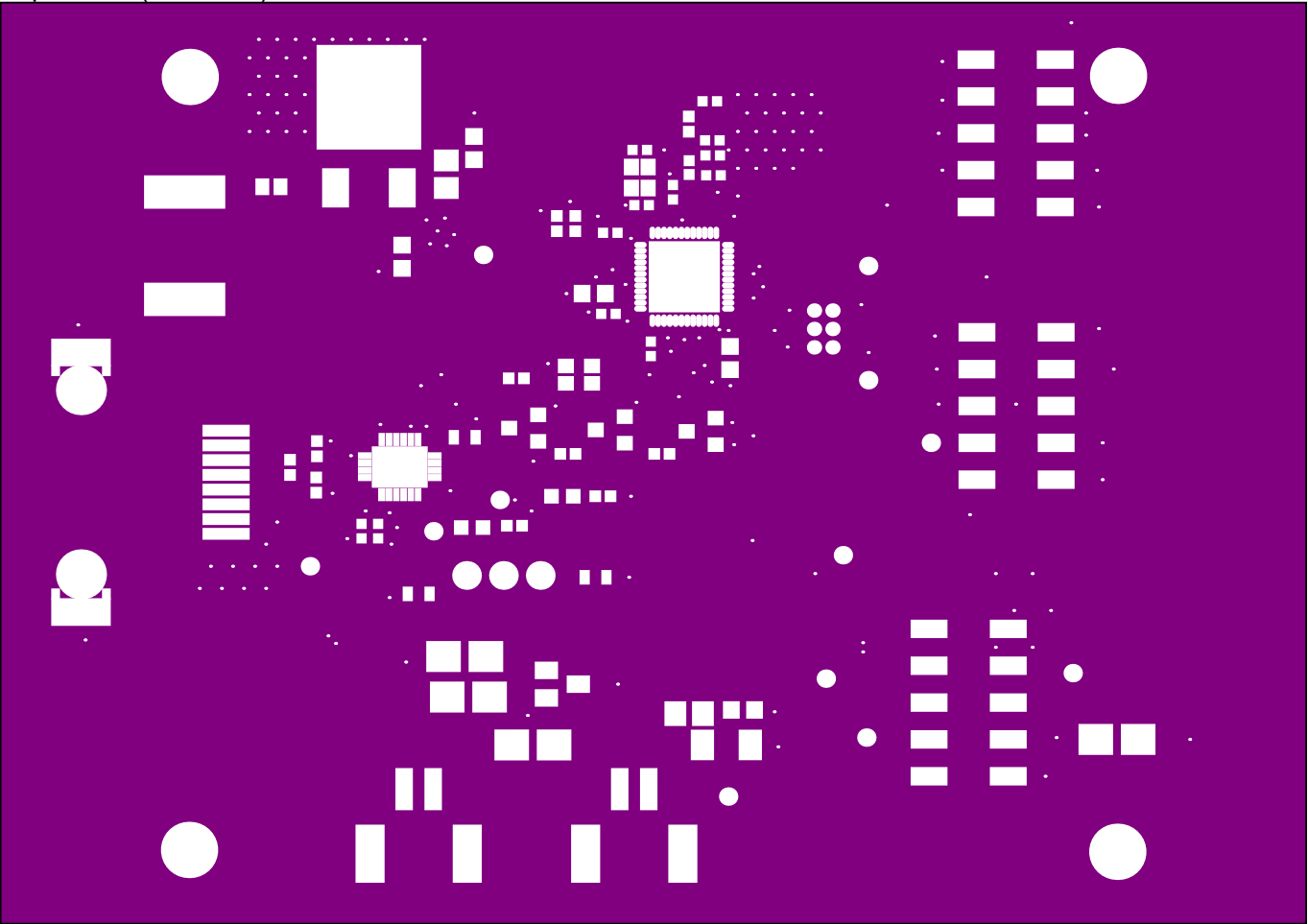
C

D

SIG\_1 (Scale 2:1)



Top Solder (Scale 2:1)



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		MATERIAL							
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A

B

C

D

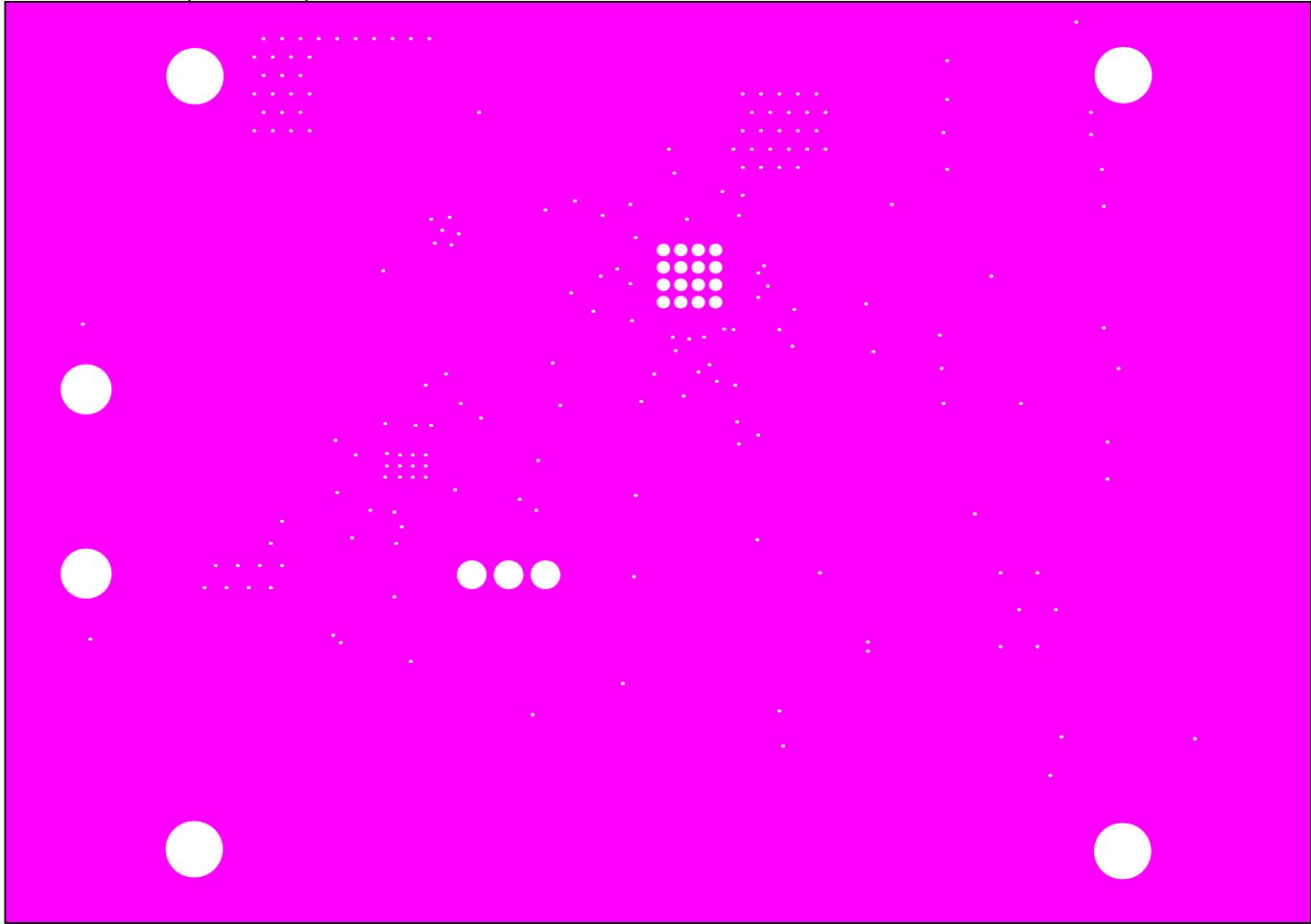
A

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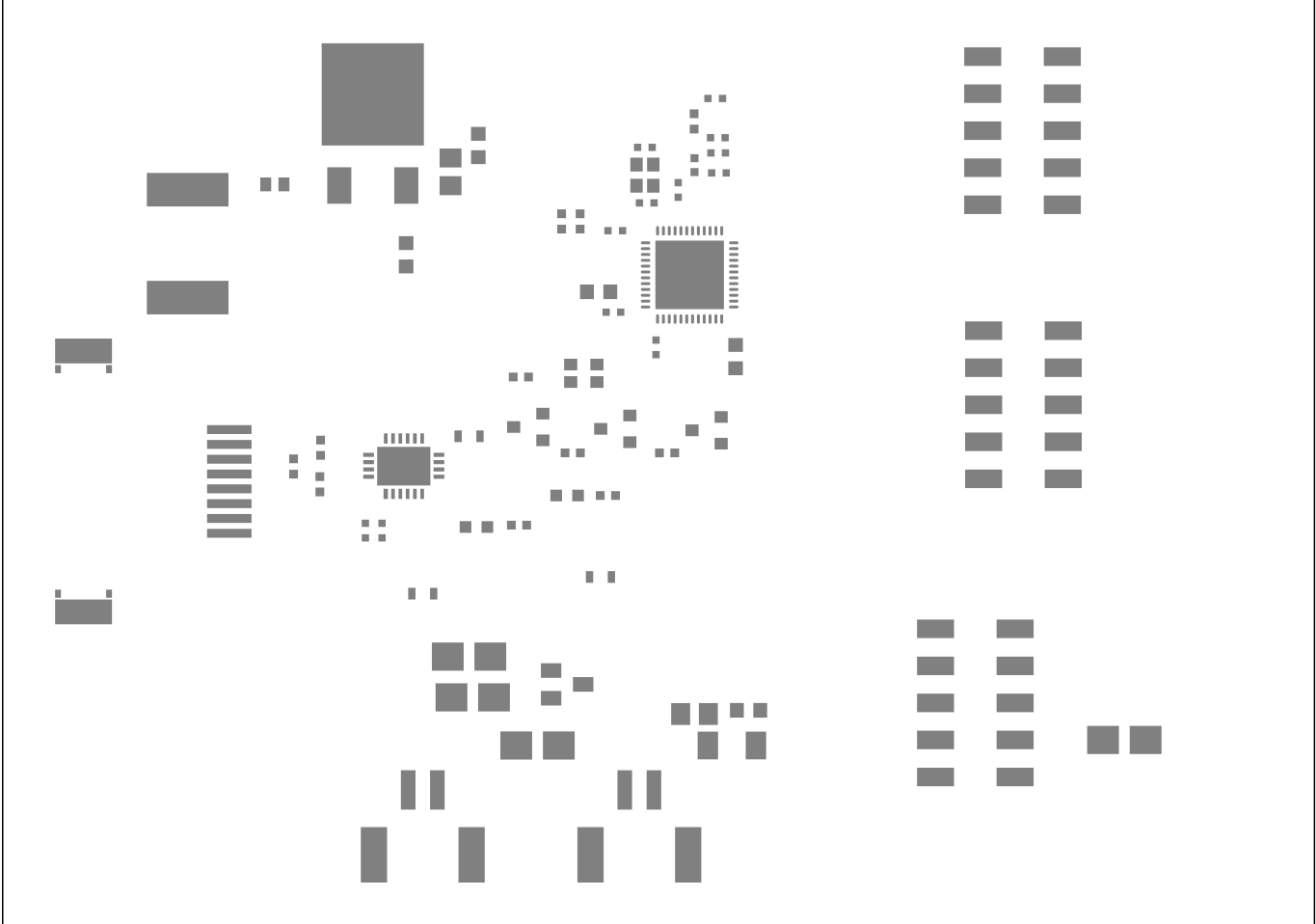
C

D

Bottom Solder (Scale 2:1)



Top Paste (Scale 2:1)



1

1

2

2

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		INTERPRET GEOMETRIC	Q.A.						
		TOLERANCING PER:	COMMENTS:						
		MATERIAL							
		FINISH							
NEXT ASSY	USED ON								
APPLICATION		DO NOT SCALE DRAWING				SCALE:	1:1	WEIGHT:	SHEET 6 OF 9

A

B

C

D

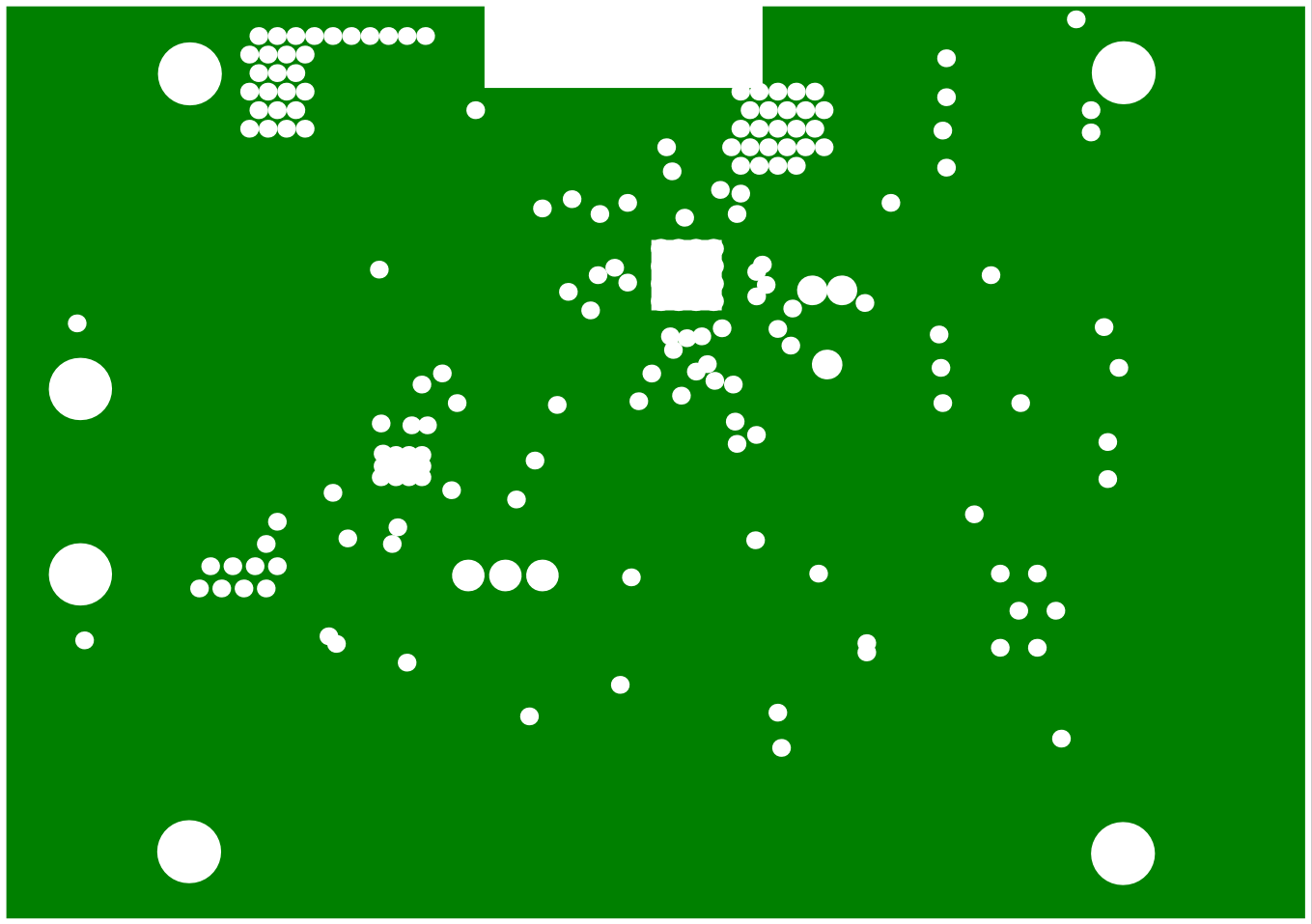
A

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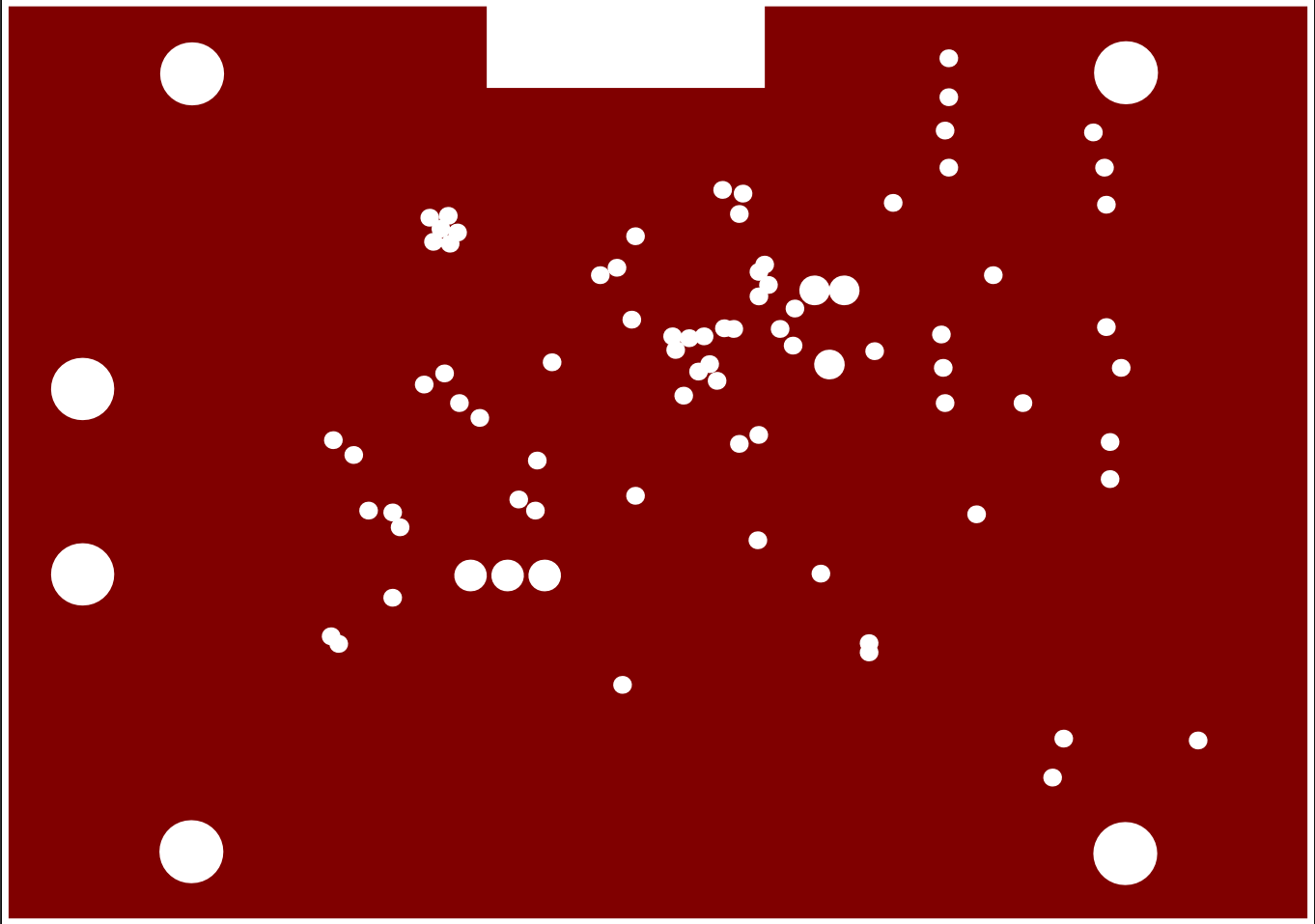
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Layer 1 (Scale 2:1)



Layer 2 (Scale 2:1)



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NEXT ASSY	USED ON							
APPLICATION								
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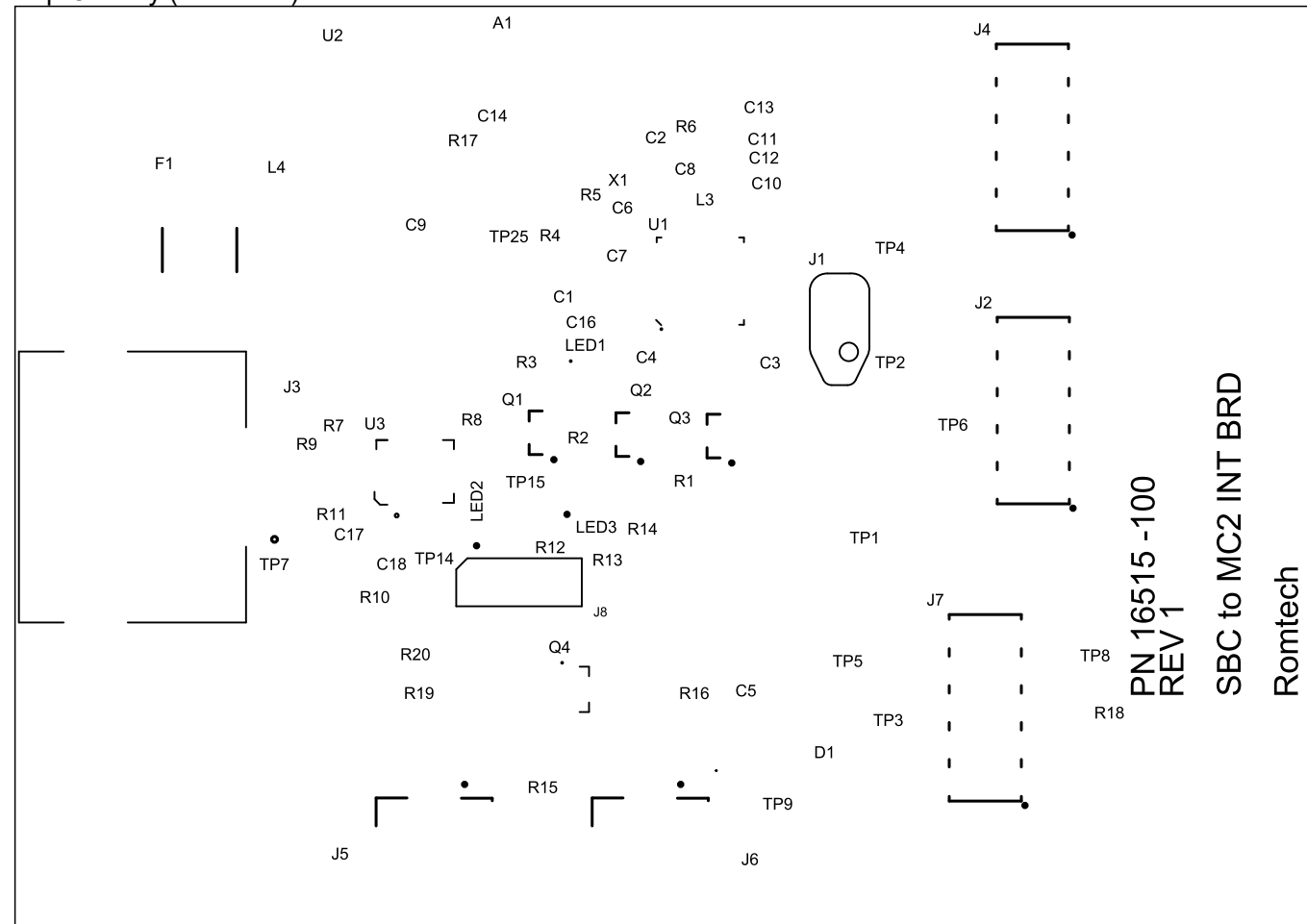
A

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Top Overlay (Scale 2:1)



Bottom Overlay (Scale 2:1)

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		TWO PLACE DECIMAL   ±							
		THREE PLACE DECIMAL ±				SIZE    DWG. NO.    Rev  16515-100    1			
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		MATERIAL	COMMENTS:						
NEXT ASSY	USED ON	FINISH							
APPLICATION		DO NOT SCALE DRAWING				SCALE:    1:1		WEIGHT:	SHEET 8 OF 9



### Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.01mm	Solder Resist	Solder Mask	GTS
Copper	Top Layer	0.04mm		Signal	GTL
Prepreg		0.20mm	PP-006	Dielectric	
CF-004	Layer 1	0.04mm		Internal Plane	GP1
Prepreg		0.25mm	PP-006	Dielectric	
CF-004	SIG_1	0.04mm		Signal	G1
		0.32mm	FR-4	Dielectric	
CF-004	SIG_2	0.04mm		Signal	G2
Prepreg		0.25mm	PP-006	Dielectric	
CF-004	Layer 2	0.04mm		Internal Plane	GP2
Prepreg		0.20mm	PP-006	Dielectric	
Copper	Bottom Layer	0.04mm		Signal	GBL
Surface Material	Bottom Solder	0.01mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO

Total thickness: 1.47mm

Total thickness: 1.47mm

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		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE    DWG. NO.    Rev  16515-100    1			
		MATERIAL	COMMENTS:						
NEXT ASSY	USED ON	FINISH							
APPLICATION		DO NOT SCALE DRAWING				SCALE:    1:1    WEIGHT:    SHEET 9 OF 9			