

1

2

3

4

A

B

C

D

E

F

1

2

3

4

IRF7317

+TC4427

THE INFORMATION CONTAINED IN
THIS DRAWING IS THE SOLE
PROPERTY OF
. ANY REPRODUCTION IN PART OR
AS A WHOLE WITHOUT THE
WRITTEN PERMISSION OF IS

PROPRIETARY AND CONFIDENTIAL

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE			
		DIMENSIONS ARE IN INCHES	DRAWN	R. BABAZADEH	10/05/1400	TITLE IRF7317+TC4427		
		TOLERANCES:	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.			COMMENTS:		
		THREE PLACE DECIMAL ±						
		INTERPRET GEOMETRIC				SIZE	DWG. NO.	
		TOLERANCING PER:						
		MATERIAL						
		FINISH				SCALE:	1:1	WEIGHT:
NEXT ASSY	USED ON	DO NOT SCALE DRAWING						SHEET 1 OF 10
APPLICATION								

A

B

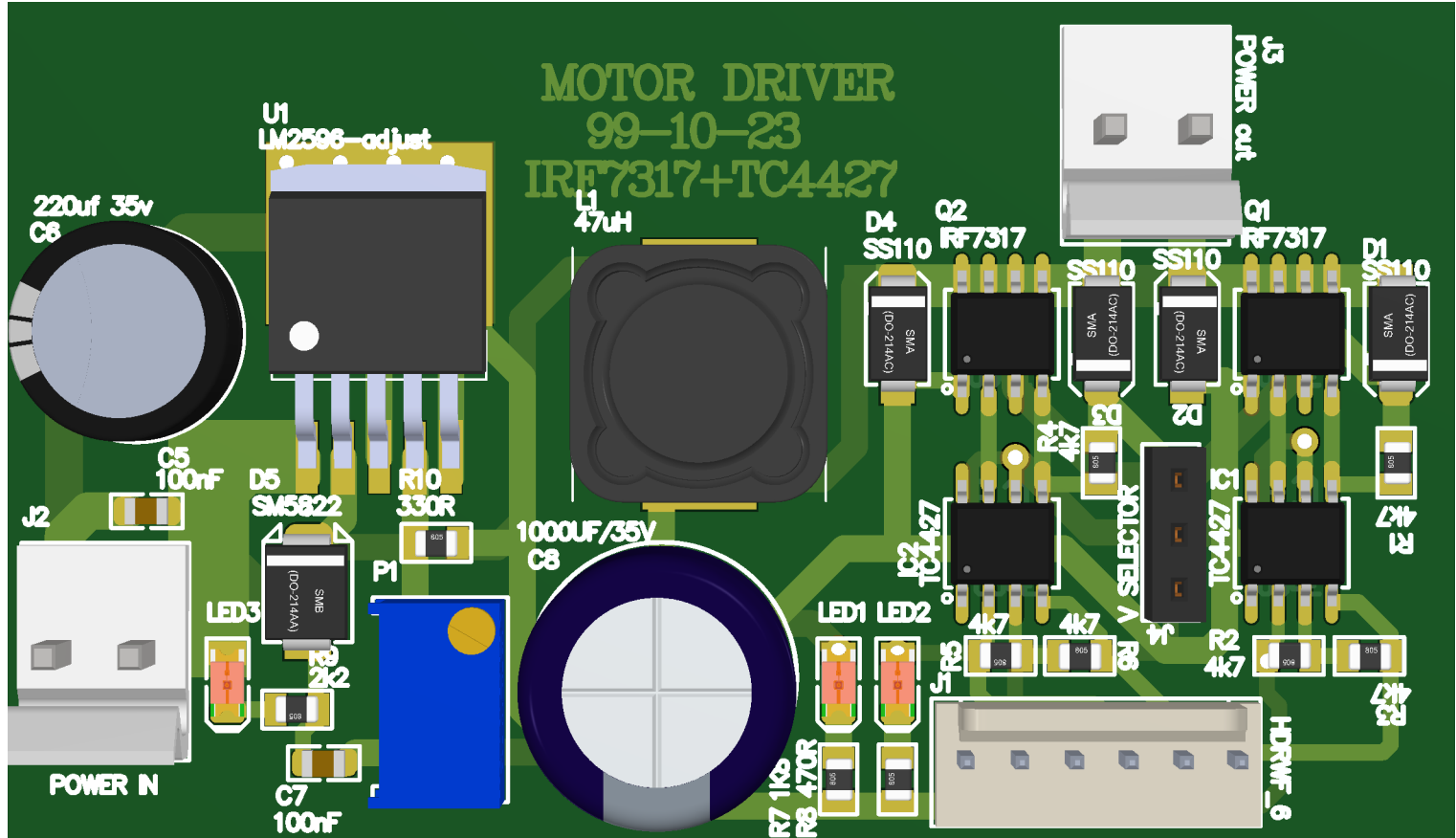
C

D

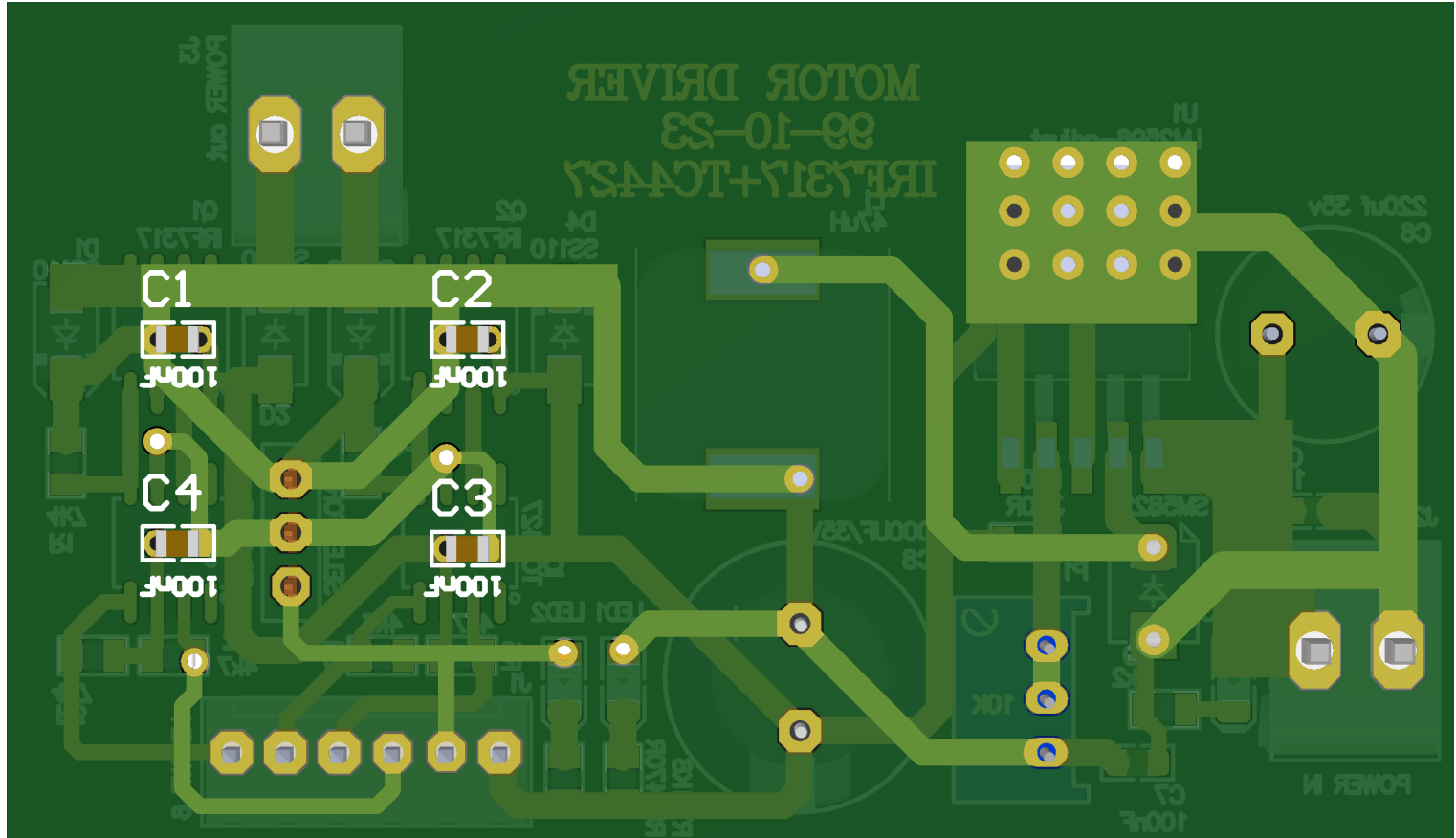
E

F

Realistic View



Realistic View



Board Realistic View

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF IS PROPRIETARY AND CONFIDENTIAL			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE		
			DIMENSIONS ARE IN INCHES	DRAWN	R.BABAZADEH	10/05/1400			
			TOLERANCES:	CHECKED					
			FRACTIONAL ±	ENG APPR.					
			ANGULAR: MACH ± BEND ±	MFG APPR.			COMMENTS:		
			TWO PLACE DECIMAL ±	Q.A.					
			THREE PLACE DECIMAL ±				SIZE DWG. NO.		
			INTERPRET GEOMETRIC TOLERANCING PER:						
			MATERIAL				SCALE: 1:1 WEIGHT: SHEET 2 OF 10		
			FINISH						
	NEXT ASSY	USED ON	DO NOT SCALE DRAWING						
	APPLICATION								

1

2

3

4

A

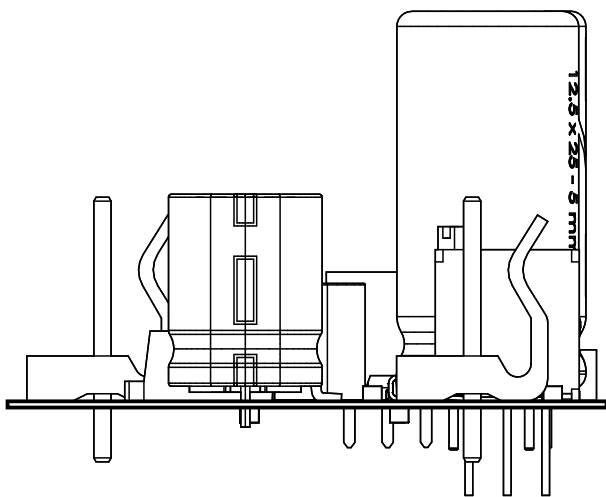
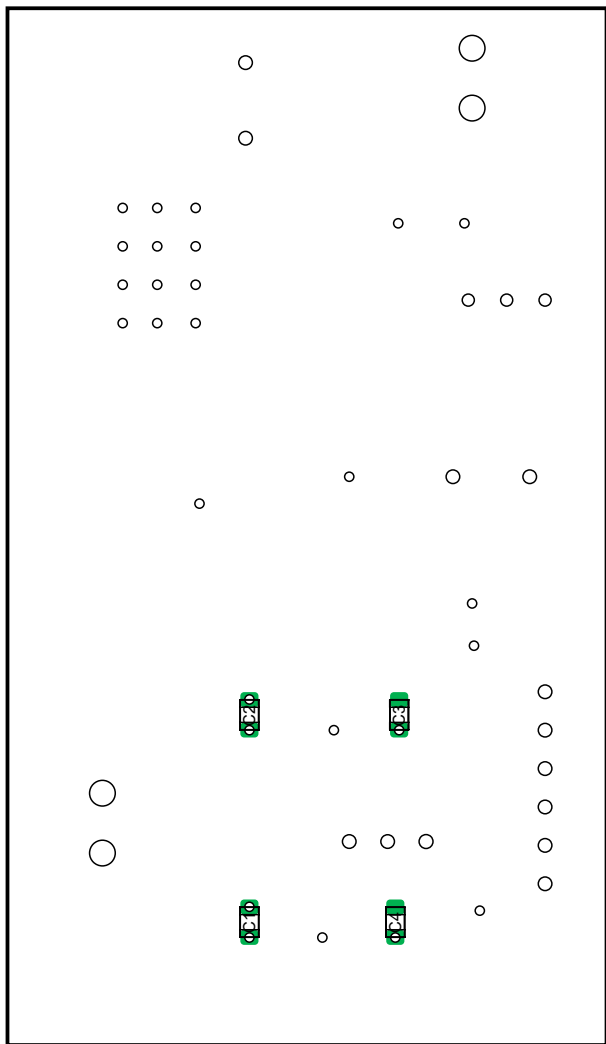
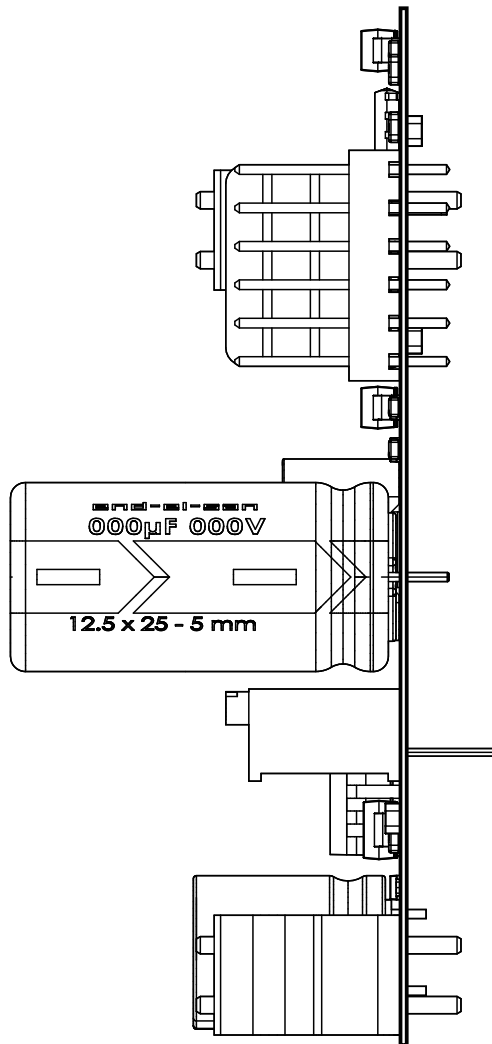
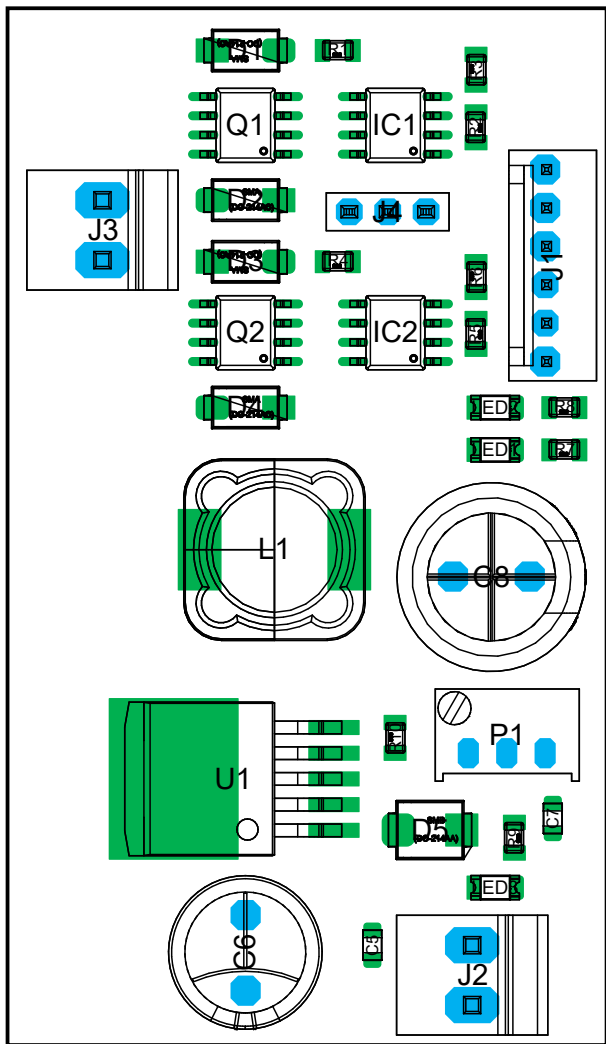
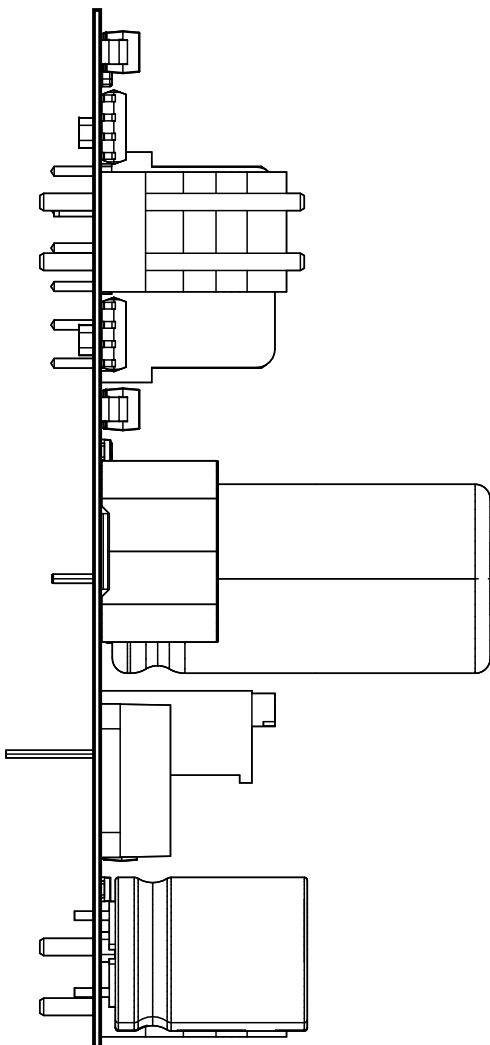
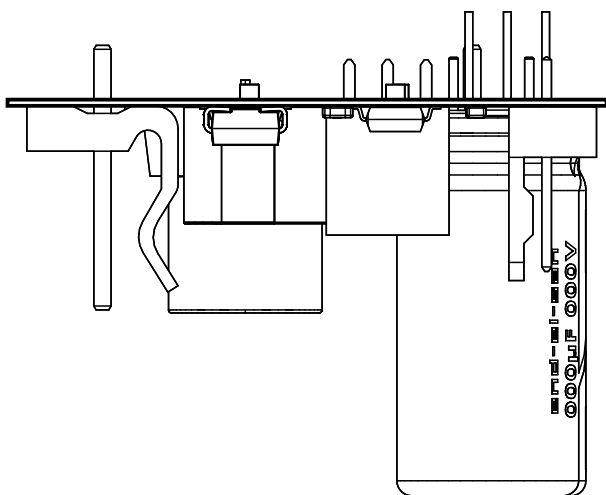
B

C

D

E

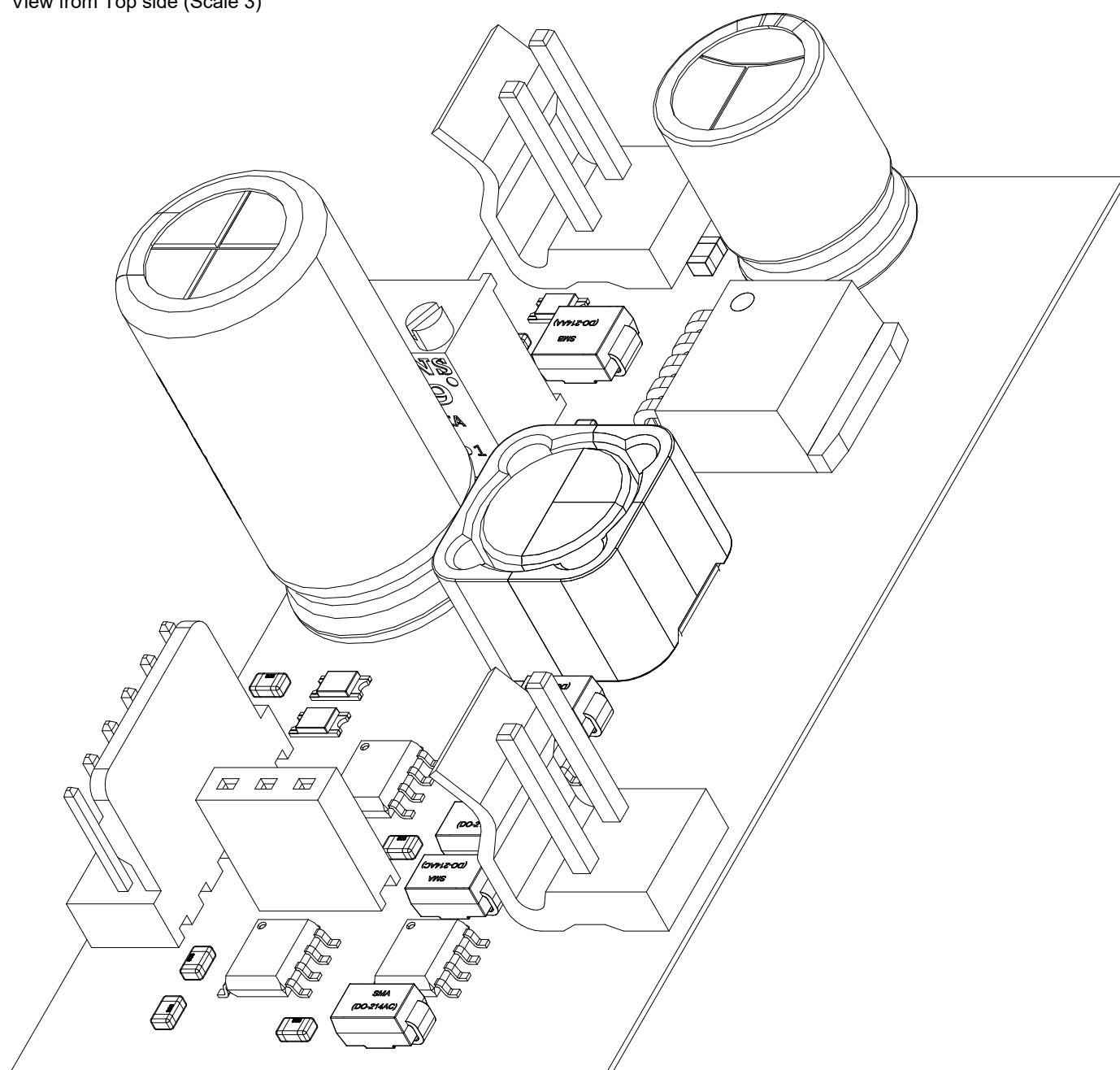
F



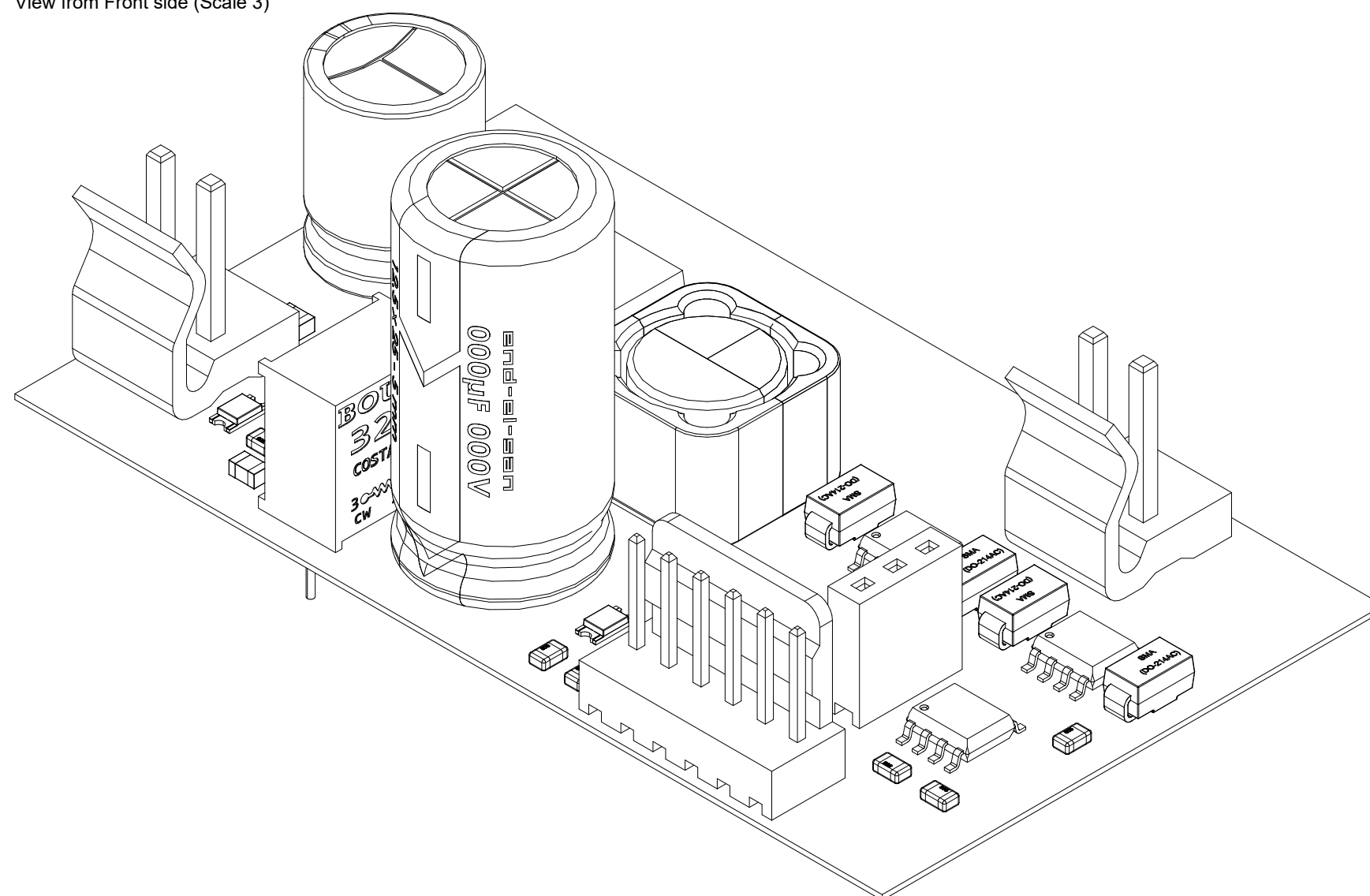
Board Assembly View

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF IS PROPRIETARY AND CONFIDENTIAL			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE IRF7317+TC4427			
			DIMENSIONS ARE IN INCHES	DRAWN	R.BABAZADEH	10/05/1400				
			TOLERANCES:	CHECKED						
			FRACTIONAL ±	ENG APPR.						
			ANGULAR: MACH± BEND ±				COMMENTS:	SIZE	DWG. NO.	
			TWO PLACE DECIMAL ±							
			THREE PLACE DECIMAL ±	MFG APPR.						
			INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.						
		MATERIAL								
	NEXT ASSY	USED ON	FINISH							
	APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:1	WEIGHT:	SHEET 3 OF 10	

View from Top side (Scale 3)



View from Front side (Scale 3)



Board Isometric View

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF IS PROPRIETARY AND CONFIDENTIAL			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE IRF7317+TC4427		
			DIMENSIONS ARE IN INCHES	DRAWN	R. BABAZADEH	10/05/1400			
			TOLERANCES:	CHECKED					
			FRACTIONAL±	ENG APPR.					
			ANGULAR: MACH± BEND ±	MFG APPR.					
			TWO PLACE DECIMAL ±	Q.A.			SIZE DWG. NO.		
			THREE PLACE DECIMAL ±	COMMENTS:					
			INTERPRET GEOMETRIC TOLERANCING PER:						
			MATERIAL						
			FINISH				SCALE: 1:1 WEIGHT: SHEET 4 OF 10		
NEXT ASSY	USED ON								
APPLICATION		DO NOT SCALE DRAWING							

1

2

3

4

A

B

C

D

E

F

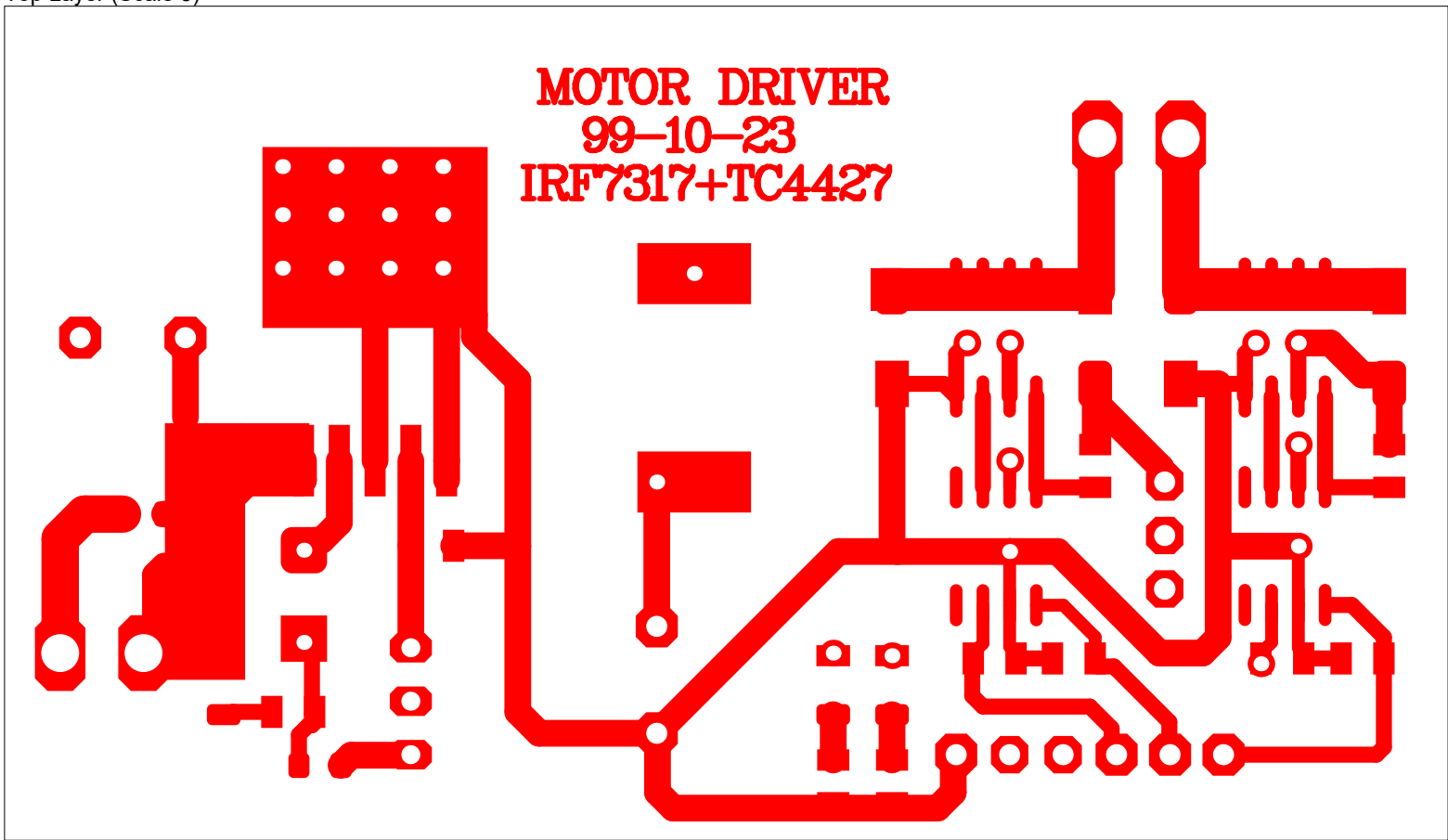
1

2

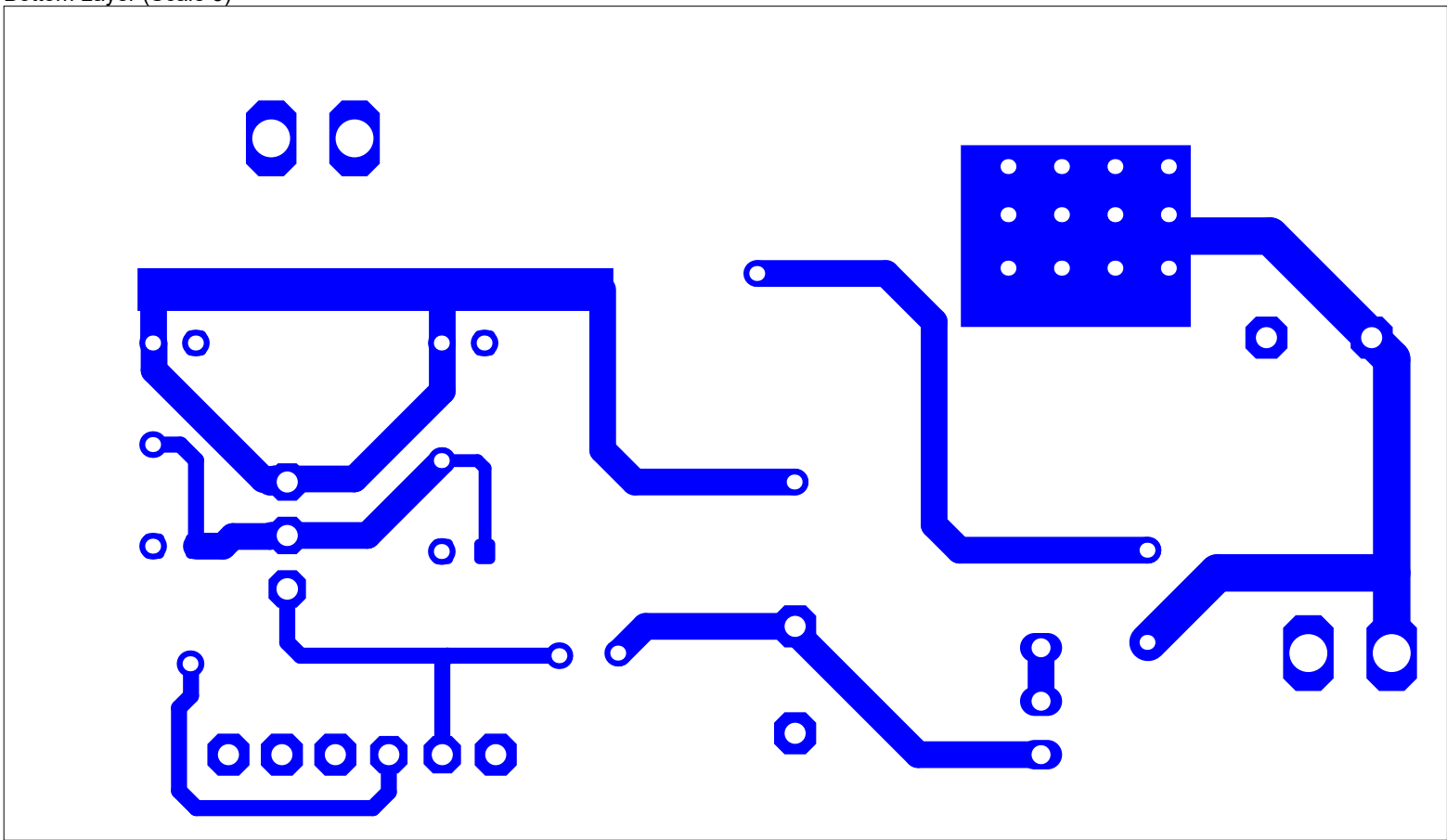
3

4

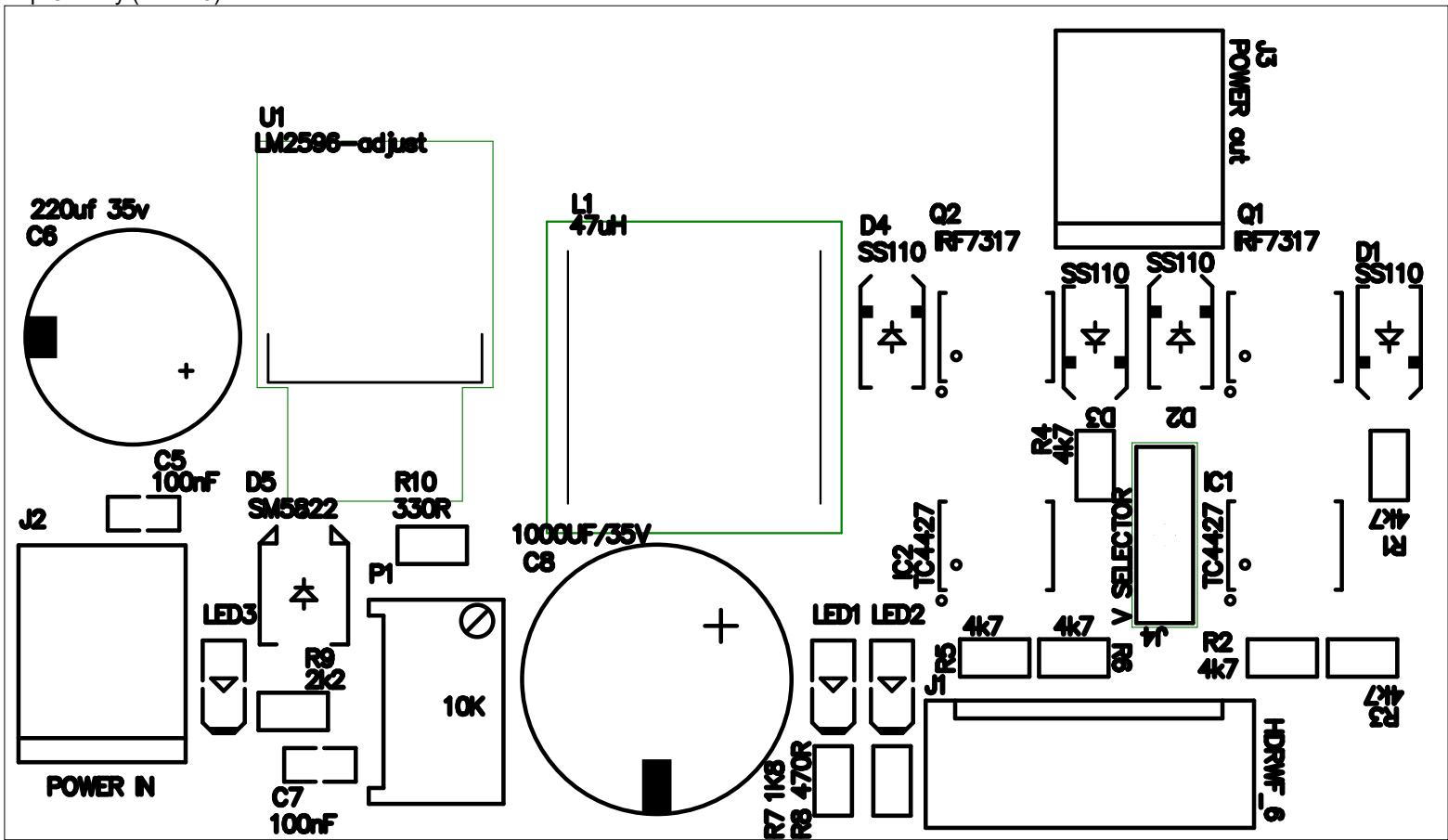
Top Layer (Scale 3)



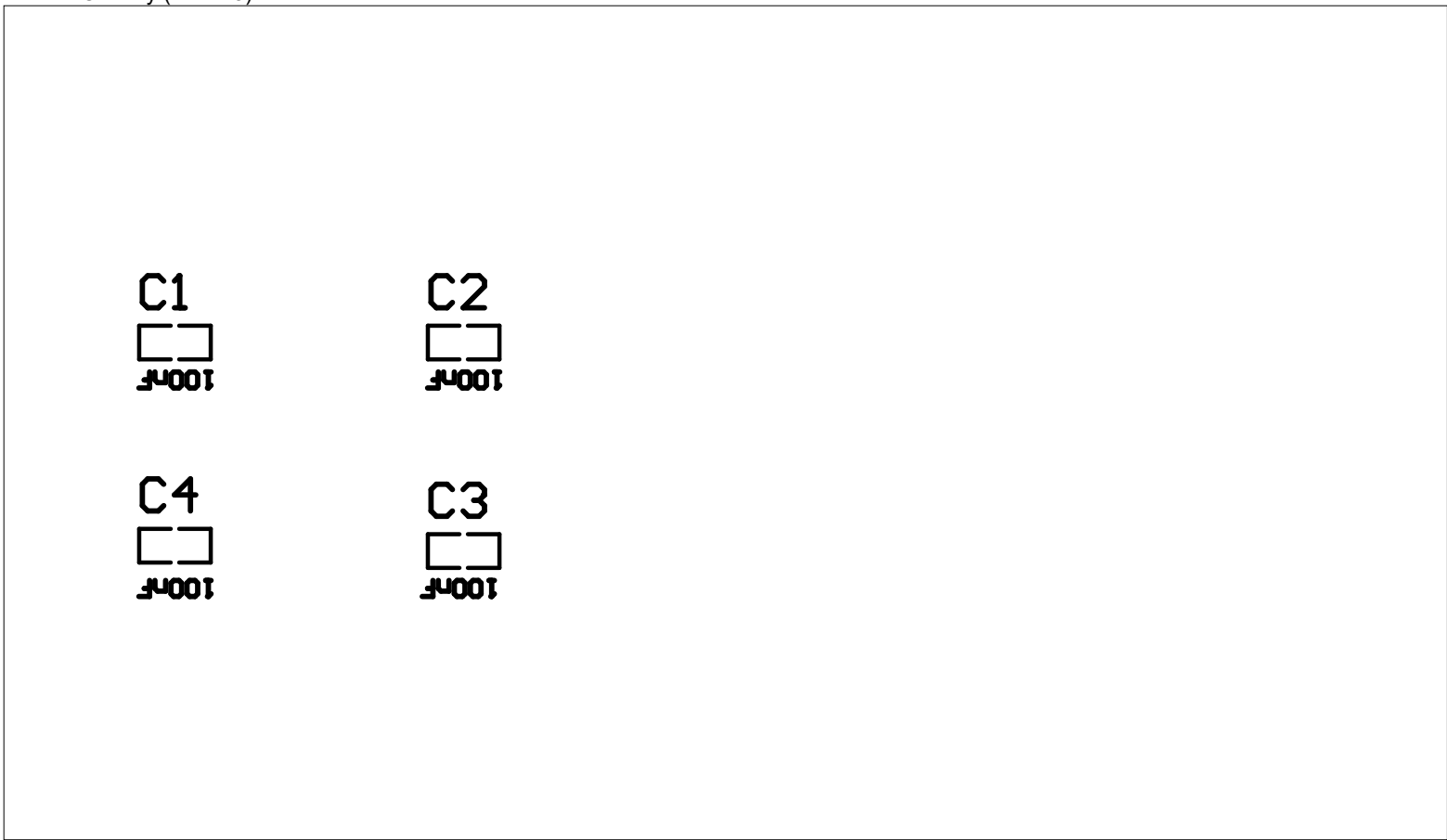
Bottom Layer (Scale 3)



Top Overlay (Scale 3)

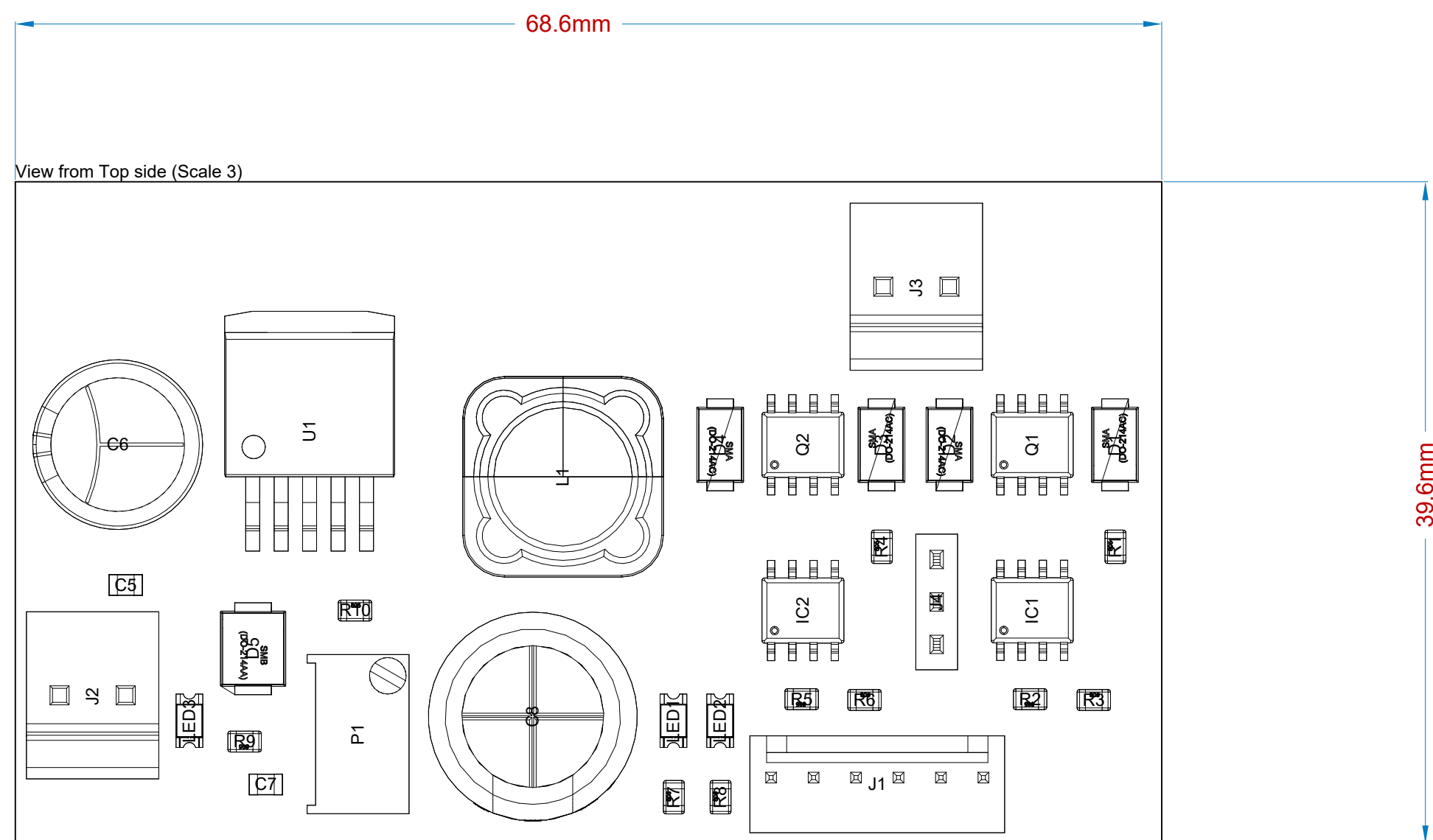


Bottom Overlay (Scale 3)

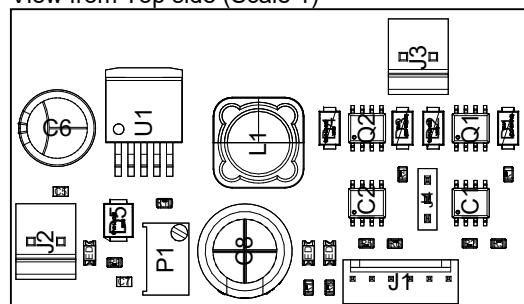


Board Fabrication View

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF IS PROPRIETARY AND CONFIDENTIAL			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE			
			DIMENSIONS ARE IN INCHES	DRAWN	R. BABAZADEH	10/05/1400				
			TOLERANCES:	CHECKED			IRF7317+TC4427			
			FRACTIONAL ±	ENG APPR.						
			ANGULAR: MACH± BEND ±	MFG APPR.						
			TWO PLACE DECIMAL ±							
			THREE PLACE DECIMAL ±							
			INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.						
		MATERIAL	COMMENTS:			SIZE	DWG. NO.			
NEXT ASSY	USED ON	FINISH								
APPLICATION		DO NOT SCALE DRAWING				SCALE:	1:1	WEIGHT:	SHEET 5 OF 10	

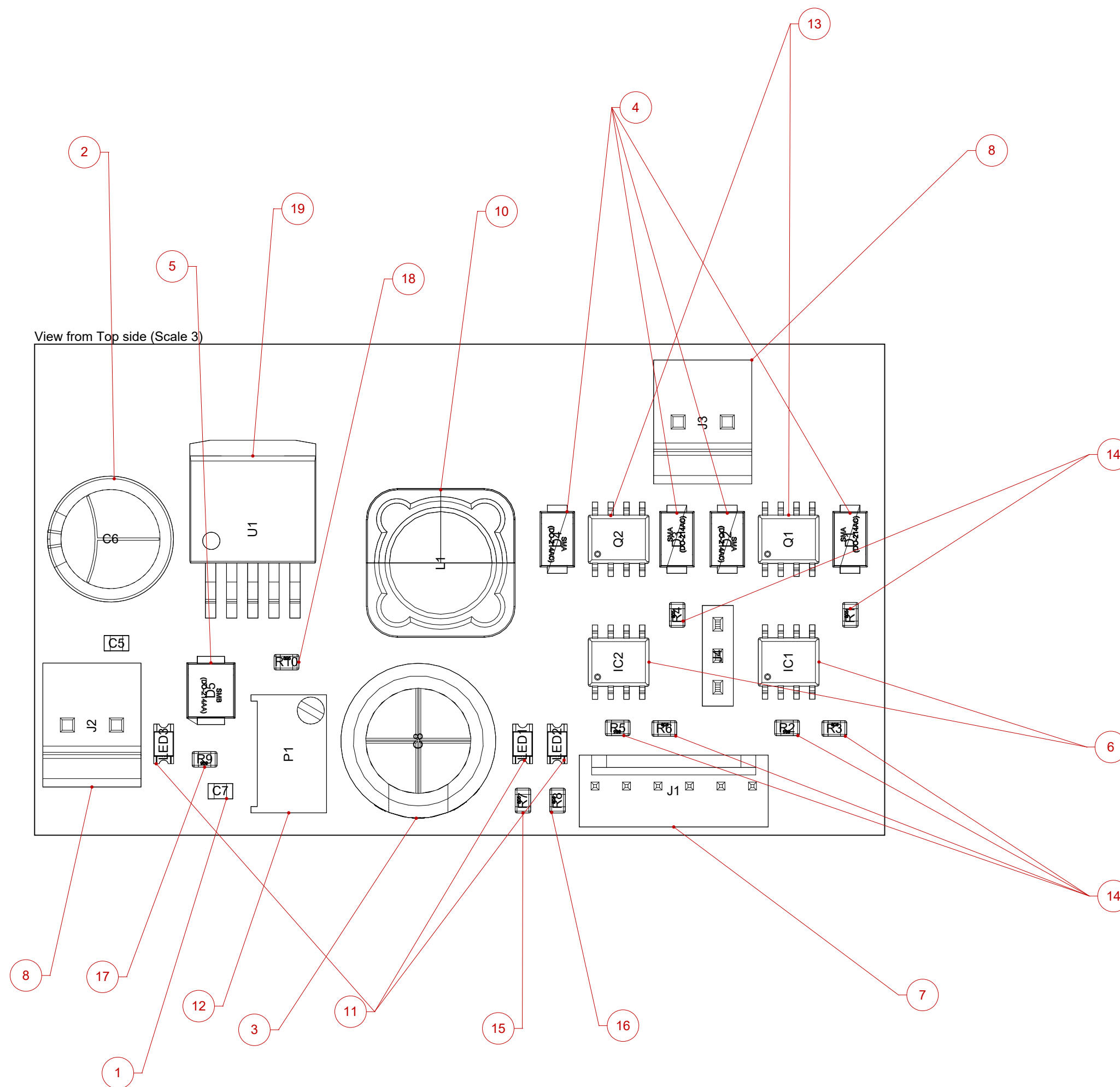


View from Top side (Scale 1)



Board Diameter View

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF IS PROPRIETARY AND CONFIDENTIAL			UNLESS OTHERWISE SPECIFIED:		NAME	DATE				
			DIMENSIONS ARE IN INCHES	DRAWN	R.BABAZADEH	10/05/1400				
			TOLERANCES:	CHECKED			TITLE IRF7317+TC4427			
			FRACTIONAL ±	ENG APPR.						
			ANGULAR: MACH± BEND ±	MFG APPR.						
			TWO PLACE DECIMAL ±							
			THREE PLACE DECIMAL ±	INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.					
			MATERIAL	COMMENTS:			SIZE	DWG. NO.		
	NEXT ASSY	USED ON	FINISH							
APPLICATION		DO NOT SCALE DRAWING								
			SCALE: 1:1 WEIGHT: SHEET 6 OF 10							



Bill Of Materials			
Line #	Designator	Comment	Quantity
1	C1, C2, C3, C4, C5, C7	100nF	6
2	C6	220uf 35v	1
3	C8	1000UF/35V	1
4	D1, D2, D3, D4	SS110	4
5	D5	SM5822	1
6	IC1, IC2	TC4427	2
7	J1	HDRWF_6	1
8	J2, J3	POWER IN	2
9	J4	V SELECTOR	1
10	L1	47uH	1
11	LED1, LED2, LED3		3
12	P1	10K	1
13	Q1, Q2	IRF7317PBF	2
14	R1, R2, R3, R4, R5, R6	4k7	6
15	R7	1K8	1
16	R8	470R	1
17	R9	2k2	1
18	R10	330R	1
19	U1	LM2596-adjust	1

BOM

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF IS PROPRIETARY AND CONFIDENTIAL			UNLESS OTHERWISE SPECIFIED:		NAME	DATE			
			DIMENSIONS ARE IN INCHES TOLERANCES:	DRAWN	R.BABAZADEH	10/05/1400			
			FRACTIONAL±	CHECKED			TITLE		
			ANGULAR: MACH± BEND ±	ENG APPR.					
			TWO PLACE DECIMAL ±	MFG APPR.					
			THREE PLACE DECIMAL ±						
			INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			COMMENTS: SIZE DWG. NO.		
			MATERIAL						
	NEXT ASSY	USED ON	FINISH						
		APPLICATION		DO NOT SCALE DRAWING	SCALE: 1:1			WEIGHT:	SHEET 7 OF 10

1

2

3

4

A

B

C

D

E

F

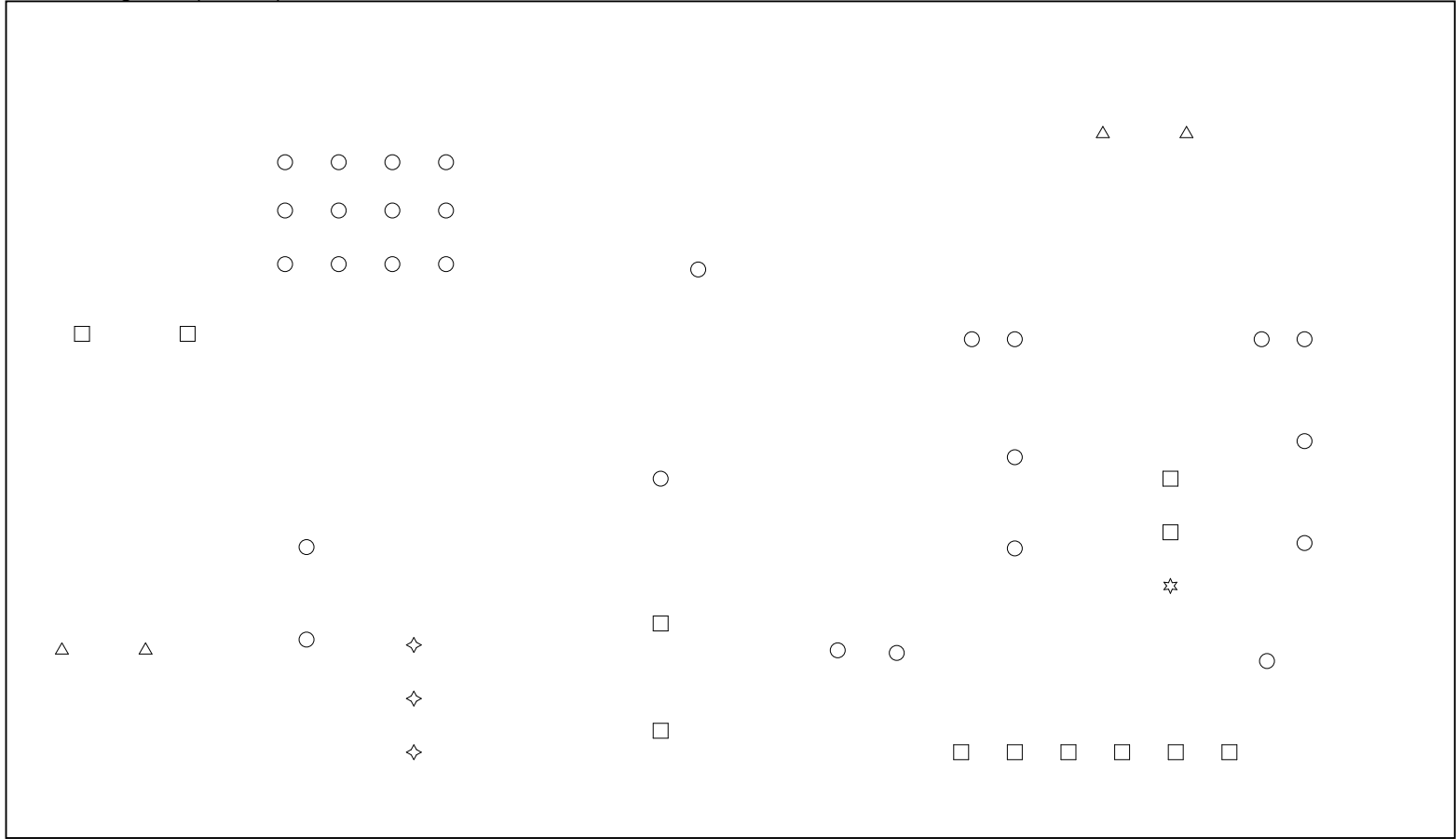
1

2

3

4

Drill Drawing View (Scale 3)



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
○	27	1mm	Plated	
◇	3	1mm	Plated	
□	12	1mm	Plated	
☆	1	1mm	Plated	
△	4	2mm	Plated	
	47			

Drill

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF IS PROPRIETARY AND CONFIDENTIAL			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE IRF7317+TC4427		
			DIMENSIONS ARE IN INCHES	DRAWN	R. BABAZADEH	10/05/1400			
			TOLERANCES:	CHECKED					
			FRACTIONAL ±	ENG APPR.					
			ANGULAR: MACH ± BEND ±	MFG APPR.			COMMENTS:		
			TWO PLACE DECIMAL ±						
			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 9 OF 10
		APPLICATION							

A

B

C

D

E

F

1

2

3

4

A

B

C

D

E

F

1

2

3

4

Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0mm	Solder Resist	Solder Mask	GTS
Copper	Top Layer	0mm		Signal	GTL
		0mm	FR-4	Dielectric	
Copper	Bottom Layer	0mm		Signal	GBL
Surface Material	Bottom Solder	0mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
Total thickness: 0mm					

Layer Stack Legend

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF IS PROPRIETARY AND CONFIDENTIAL			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE IRF7317+TC4427		
			DIMENSIONS ARE IN INCHES	DRAWN	R.BABAZADEH	10/05/1400			
			TOLERANCES:	CHECKED					
			FRACTIONAL ±	ENG APPR.					
			ANGULAR: MACH ± BEND ±	MFG APPR.			COMMENTS:		
			TWO PLACE DECIMAL ±	Q.A.					
			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 10 OF 10
	APPLICATION								

A

B

C

D

E

F