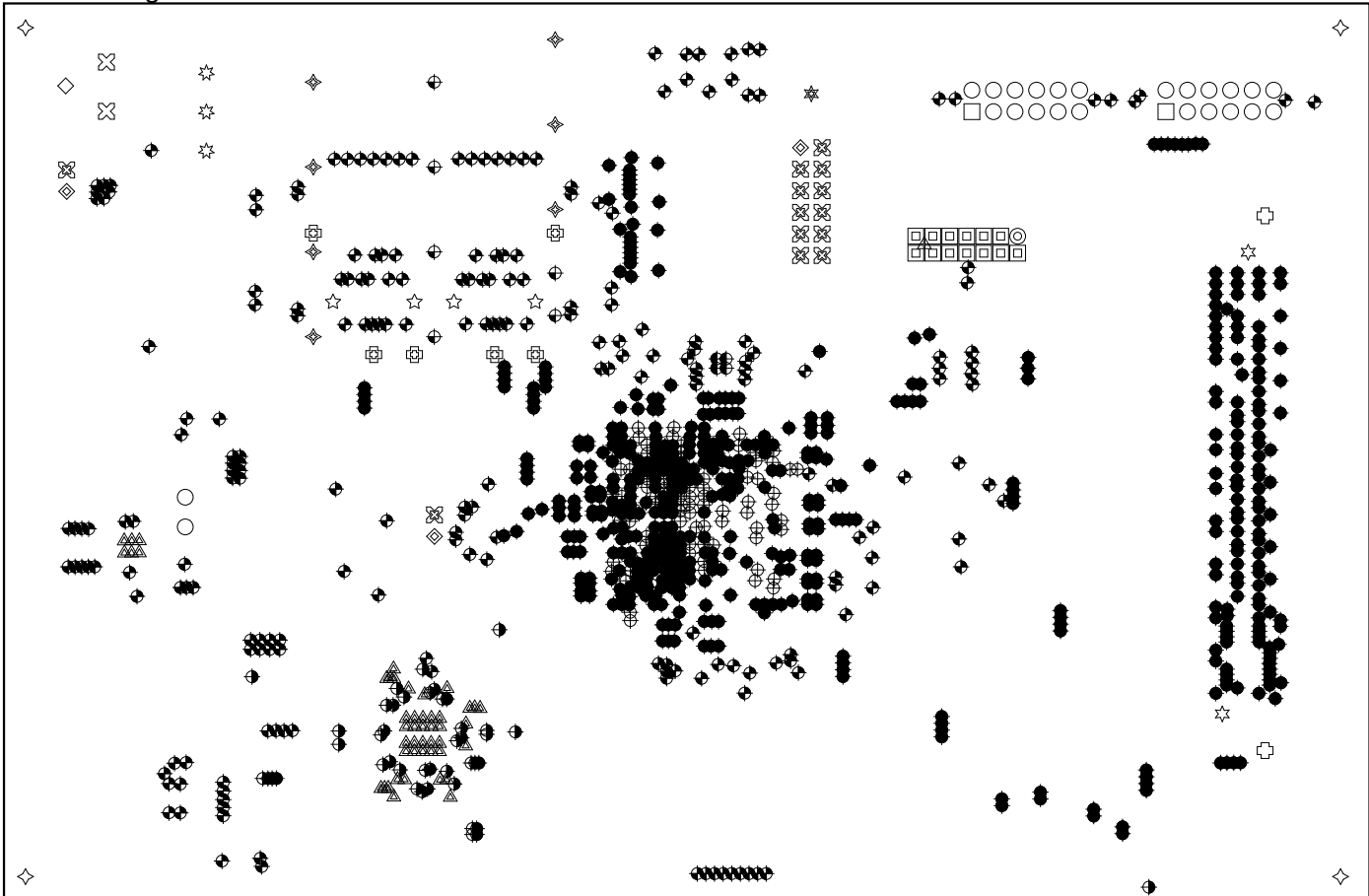


Drill Drawing View



Notes:

- 1. Via templates v41h20m0mx0 and v38h18m0mx0 are an in-pad, tented, ink filled via.
- 2. Via template Via1 is a tented, ink filled via.
- 3. Pads with templates r165\_406h100\_310 and r165\_406h100\_318 are slots with a 1mm hole size and 3.1mm length.

Drill Table

Symbol	Count	Hole Size	Plated	Hole Type	Via / Pad	Template
□	2	0.76mm(30.00mil)	Plated	Round	Pad	s152h76
○	24	0.76mm(30.00mil)	Plated	Round	Pad	c152h76
◇	1	1.00mm(39.37mil)	Plated	Slot	Pad	r165_406h100_310
⊗	2	1.00mm(39.37mil)	Plated	Slot	Pad	r165_406h100_318
⊕	2	2.70mm(106.30mil)	Plated	Round	Pad	c320h270
◇	4	3.00mm(118.11mil)	Plated	Round	Pad	c400h300
☆	4	1.55mm(61.02mil)	Non-Plated	Round	Pad	c155hn155m155p155
☆	2	1.27mm(50.00mil)	Non-Plated	Round	Pad	c0hn127
☆	3	1.85mm(72.83mil)	Plated	Round	Pad	c270h185
△	1	1.00mm(39.37mil)	Non-Plated	Round	Pad	c100hn100
⊞	13	0.90mm(35.43mil)	Plated	Round	Pad	c130h90(Tol5-5)
⊙	1	0.90mm(35.43mil)	Plated	Round	Pad	s130h90c50(Tol5-5)
◇	3	0.90mm(35.43mil)	Plated	Round	Pad	s150h90
⊗	13	0.90mm(35.43mil)	Plated	Round	Pad	c150h90
⊞	6	0.95mm(37.40mil)	Non-Plated	Round	Pad	c95hn95
◇	7	1.05mm(41.34mil)	Plated	Round	Pad	s200h105
⊕	6	0.95mm(37.40mil)	Plated	Round	Pad	s200h95
☆	1	3.20mm(125.98mil)	Plated	Round	Pad	c500h320
⊕	43	0.18mm(7.00mil)	Plated	Round	Via	v38h18
△	47	0.18mm(7.00mil)	Plated	Round	Via	v38h18m0mx0
●	524	0.20mm(8.00mil)	Plated	Round	Via	Via1
⊕	72	0.20mm(8.00mil)	Plated	Round	Via	v41h20m0mx0
⊕	229	0.25mm(10.00mil)	Plated	Round	Via	v51h25
⊕	4	0.20mm(7.87mil)	Plated	Round	Via	v50h20

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	University College London		
		DIMENSIONS ARE IN INCHES		DRAWN	Samer Kilani	15/08/2017	TITLE	
		TOLERANCES:		CHECKED				
		FRACTIONAL±		ENG APPR.				
		ANGULAR: MACH± BEND ±		MFG APPR.				
		TWO PLACE DECIMAL ±		Q.A.				
		THREE PLACE DECIMAL ±		COMMENTS:			SIZE	
		INTERPRET GEOMETRIC TOLERANCING PER:						
		MATERIAL					DWG. NO.	
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING					SCALE: 1:1	WEIGHT:
							SHEET 1 OF 4	

Layer Stack Legend

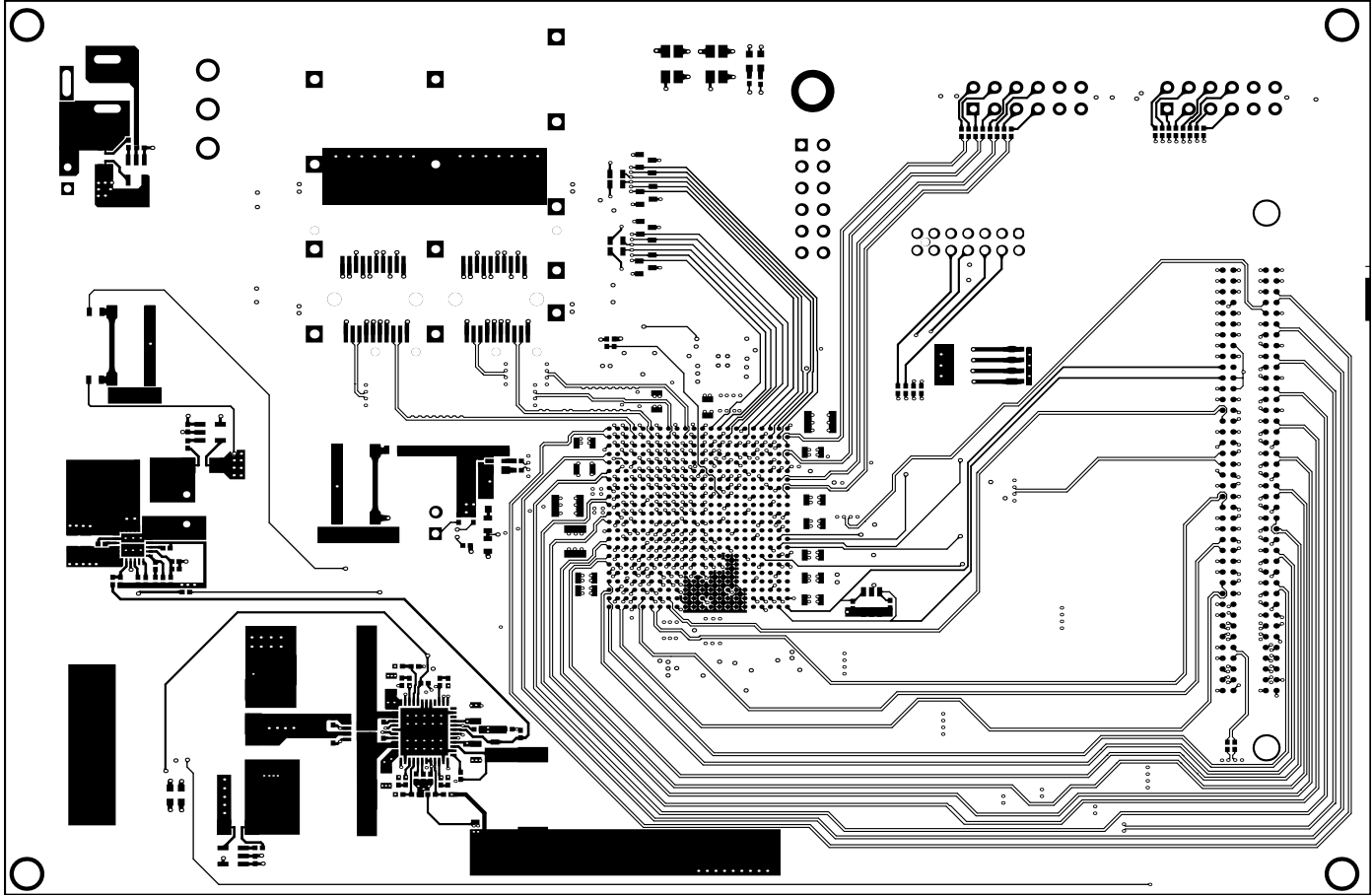
Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Paste			Paste Mask	atfc_paste_top
	Top Overlay			Legend	atfc_legend_top
Surface Material	Top Solder	0.025mm(0.984mil)	Solder Resist	Solder Mask	atfc_soldermask_top
Copper	Component Side	0.035mm(1.378mil)		Signal	atfc_copper_signal_top
Prepreg		0.115mm(4.528mil)		Dielectric	
Copper	Ground Plane (GND)	0.035mm(1.378mil)		Internal Plane	atfc_copper_plane_1
Core		0.400mm(15.748mil)		Dielectric	
Copper	GND/Signal	0.035mm(1.378mil)		Signal	atfc_copper_signal_1
Prepreg		0.296mm(11.654mil)		Dielectric	
Copper	VCCO/Signal	0.035mm(1.378mil)		Signal	atfc_copper_signal_2
Core		0.400mm(15.748mil)		Dielectric	
Copper	VCCINT/VCCAUX	0.035mm(1.378mil)		Internal Plane	atfc_copper_plane_2
Prepreg		0.115mm(4.528mil)		Dielectric	
Copper	Bottom Side	0.035mm(1.378mil)		Signal	atfc_copper_signal_bot
Surface Material	Bottom Solder	0.025mm(0.984mil)	Solder Resist	Solder Mask	atfc_soldermask_bot
	Bottom Overlay			Legend	atfc_legend_bot
	Bottom Paste			Paste Mask	atfc_paste_bot
Total thickness: 1.586mm(62.440mil)					

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		DIMENSIONS ARE IN INCHES	DRAWN	Samer Kilani	15/08/2017	TITLE  ATFC Master Drawing			
		TOLERANCES:	CHECKED						
		FRACTIONAL±	ENG APPR.						
		ANGULAR: MACH± BEND ±	MFG APPR.						
		TWO PLACE DECIMAL ±	Q.A.						
		THREE PLACE DECIMAL ±	COMMENTS:			SIZE DWG. NO.			
		INTERPRET GEOMETRIC TOLERANCING PER:							
		MATERIAL							
NEXT ASSY	USED ON	FINISH							
APPLICATION		DO NOT SCALE DRAWING				SCALE:	1:1	WEIGHT:	SHEET 2 OF 4

Component Side (Scale: 1.1392)



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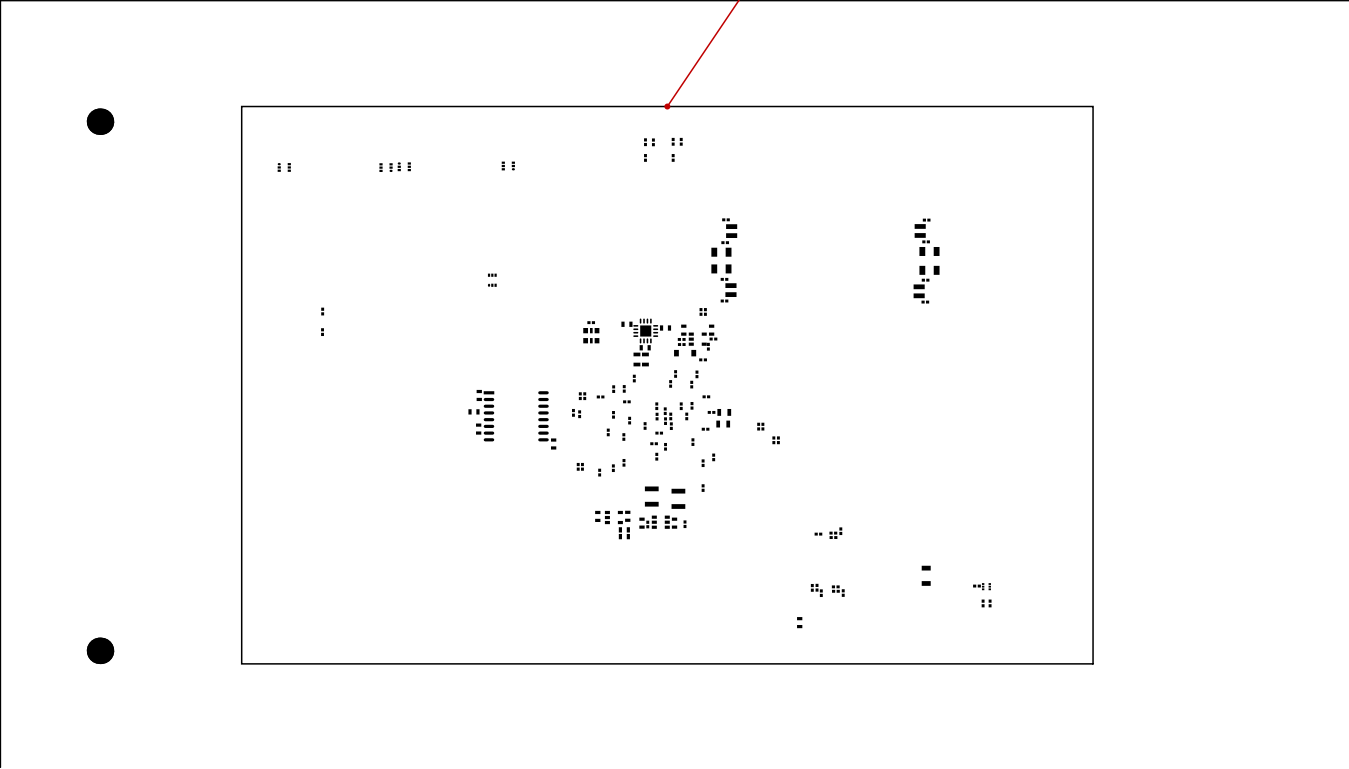
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		DIMENSIONS ARE IN INCHES	DRAWN	Samer Kilani	15/08/2017	TITLE  ATFC Master Drawing					
		TOLERANCES:	CHECKED								
		FRACTIONAL±	ENG APPR.								
		ANGULAR: MACH± BEND ±	MFG APPR.								
		TWO PLACE DECIMAL ±	Q.A.								
		THREE PLACE DECIMAL ±	COMMENTS:			SIZE			DWG. NO.		
		INTERPRET GEOMETRIC TOLERANCING PER:									
		MATERIAL									
NEXT ASSY	USED ON	FINISH									
APPLICATION		DO NOT SCALE DRAWING				SCALE:	1:1	WEIGHT:			SHEET 3 OF 4

Notes:

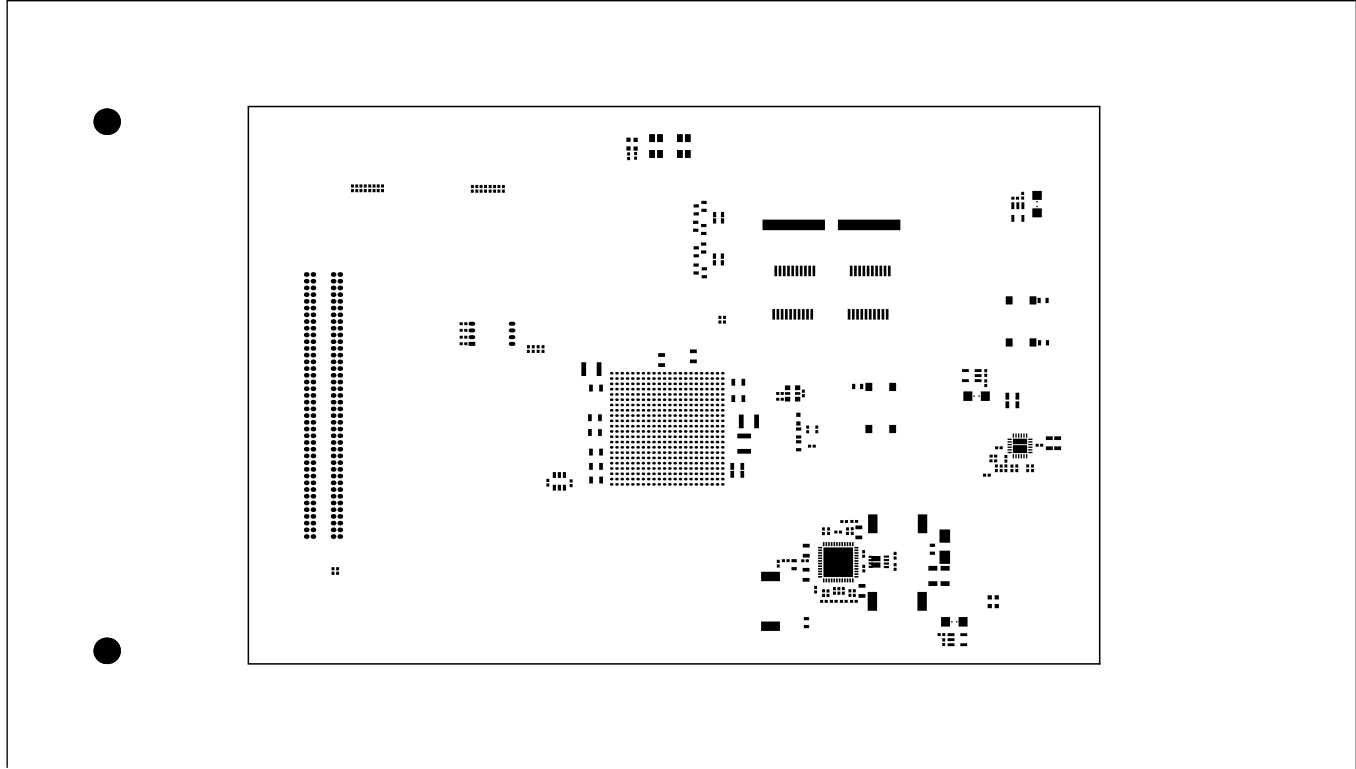
- 4. Diagrams below are scaled down to 70%.
- 5. Top and Bottom stencil files are in seperate gerber files. atfc\_paste\_bot.gbr and atfc\_paste\_top.gbr, respectively.
- 6. Paste and Pad sizes are 1:1. Please scale down paste pads to achieve better paste deposition.
- 7. DO NOT scale down the 5mm holes on the LHS of the stencils. These are mounting holes for the stencil printer.

Bottom Paste



Board layout not included  
in the stencil gerber file.

Top Paste



Stencil border

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		DIMENSIONS ARE IN INCHES	DRAWN	Samer Kilani	15/08/2017	TITLE  ATFC Master Drawing			
		TOLERANCES:	CHECKED						
		FRACTIONAL±	ENG APPR.						
		ANGULAR: MACH± BEND ±	MFG APPR.						
		TWO PLACE DECIMAL ±	Q.A.						
		THREE PLACE DECIMAL ±	COMMENTS:			SIZE DWG. NO.			
		INTERPRET GEOMETRIC TOLERANCING PER:	Stencil design						
		MATERIAL							
NEXT ASSY	USED ON	FINISH							
APPLICATION		DO NOT SCALE DRAWING				SCALE:	1:1	WEIGHT:	SHEET 4 OF 4