

PCB FABRICATION NOTES: (Unless Otherwise Specified)

1. All layers are visible from Top to Bottom (without any mirror).
2. Layer "Board Outline (M1)" contains the board outline and shape.
3. Layer "Board Dimension (M2)" contains final dimension of the board.
4. Layer "Non Plated Routes (M3)" contains non plated apertures of any shape for milling in PCB.
5. Layer "Non Plated Routes Guide (M4)" contains guidelines regarding milling.
6. Layer "Fabrication Notes (M6)" contains notes for proper PCB fabrication.
7. Layer "Panel Details (M8)" shows the panel of PCB.
8. Layer "Panel Guide (M9)" contains guidelines about PCB panel fabrication.
9. Layer "Top Peelable Mask (M10)" contains peelable mask for the top layer of PCB.
10. Layer "Bottom Peelable Mask (M11)" contains peelable mask for the bottom layer of PCB.
11. The PCB should be RoHS compliant.

REV	DATE	CHANGES DESCRIPTION	NAME:
A.1	24.08.2016	INITIAL RELEASE	S.Blicharz
A.2	06.01.2017	Changed R21, R22 to 1k5; moved LCD1, LCD2	S.Blicharz
A.3	15.03.2017	Added circuitry for two bypass valves	S.Blicharz

DESIGN INFORMATION			BOARD NAME: PCB; CBS2100EE
PART NUMBER: 1051.00041.00_0-A.3			
BOARD TECHNOLOGY:			BOARD SIZE:
0.254	0.254	0.177	63,5mm x 130,18mm
MIN TRACK	PADS	CLEARANCE	LAYER NUMBER: 2

LAYER STACK MANAGER: AS SHOWN

ARTWORK/PATTERN MASTER LIST			
DESCRIPTION	CAD FILE REF.	EXT	LAYER NAME
GERBER FILE		GTP	Top Paste Mask
GERBER FILE		GTO	Top Overlay
GERBER FILE		GTS	Top Solder Mask
GERBER FILE		GTL	TOP LAYER
GERBER FILE		GBL	BOTTOM LAYER
GERBER FILE		GBS	Bottom Solder Mask
GERBER FILE		GBO	Bottom Overlay
GERBER FILE		GBP	Bottom Paste Mask
GERBER FILE		GD1	Drill Drawing
GERBER FILE		GG1	Drill Guide
GERBER FILE		GM1	Board Outline
GERBER FILE		GM2	Board Dimension
GERBER FILE		GM3	Non Plated Routes
GERBER FILE		GM4	Non Plated Routes Guide
GERBER FILE		GM6	PCB Fabrication Notes
GERBER FILE		GM8	Panel Details
GERBER FILE		GM9	Panel Guide
GERBER FILE		GM10	Top Peelable Mask
GERBER FILE		GM11	Bottom Peelable Mask
GERBER FILE		GM18	Stencil Frame
GERBER FILE		GM19	Stencil Guide
GERBER FILE		GM20	Stencil Fabrication Notes
GERBER FILE		GM31	Template Scheet A1
GERBER FILE		GM32	Template Scheet

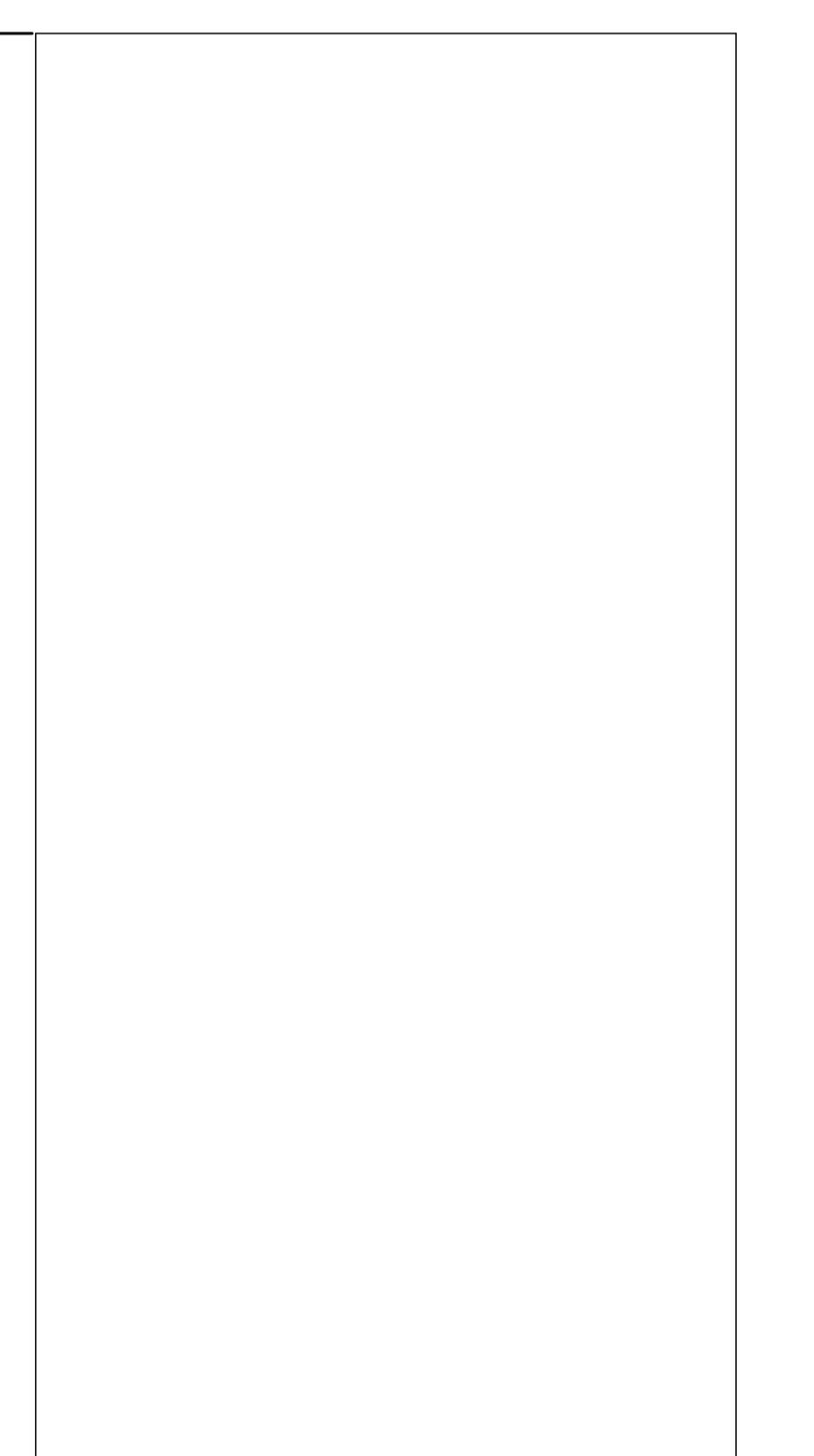
APERTURE LIST			
DRILL REPORT		DRR	
DRILL FILE		LDP	
EXCELON DRILL		TXT	

MATERIAL	TYPE	THICKNESS	
GLASS FIBRE EPOXY RESIN	FR4	1.6mm	
COPPER THICKNESS (FINISHED)	OUTER	INNER SIGN	INNER PWR

35 um(1OZ)			
ALL DRILL DIMENSIONS HAVE FINISHED HOLE SIZE			
RoHS COMPLIANT: YES			
ELECTRICAL TEST: YES			
SOLDER MASK: GREEN, APPLIED TO BOTH SIDES			
SILK SCREEN: WHITE, APPLIED TO BOTH SIDES			
PADS FINISHED: Lead-Free HASL			

Layer Stack Up Detail for: CBS2100EE.PcbDoc						
Layer Name	Gerber Document	Copper Thickness	Dielectric Height	Dielectric Material	Dielectric Constant	Dielectric Type
Top Solder Mask	.GTS)	0.4mil	Solder Resist	3.50		
Top Layer	.GTL>	1.4mil				
		60mil	FR-4	4.80	Core	
Bottom Layer	.GBL>	1.4mil				
Bottom Solder Mask	.GBS)	0.4mil	Solder Resist	3.50		

BUILD STATISTICS	
GENERAL	
NETS	85
COMPONENTS	114
PRIMITIVES	
FILLS	3
TRACKS	13316
STRINGS	8415
ARCS	171
LANDS	
PADS	357
VIAS	481
PRINT SCALE	
SCALE	SCALE: 1:00



LAYER NAME: Fabrication Board Details – Sheet 1 of 11

PLOT FILE: Fabrication Board Details – Sheet 1 of 11

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ALL DIMENSIONS ARE IN METRIC		CREATED BY:	S.Blicharz	DATE:	2017-03-22
DECIMAL +/- .005	ANGULAR +/- 1:2	CHK'D BY:		SCALE:	1.00
FIRST-ANGLE		APP'D BY:		REVISION:	A.3
SHEET NAME AND NUMBER	Fabrication Board Details – Sheet 1 of 11				

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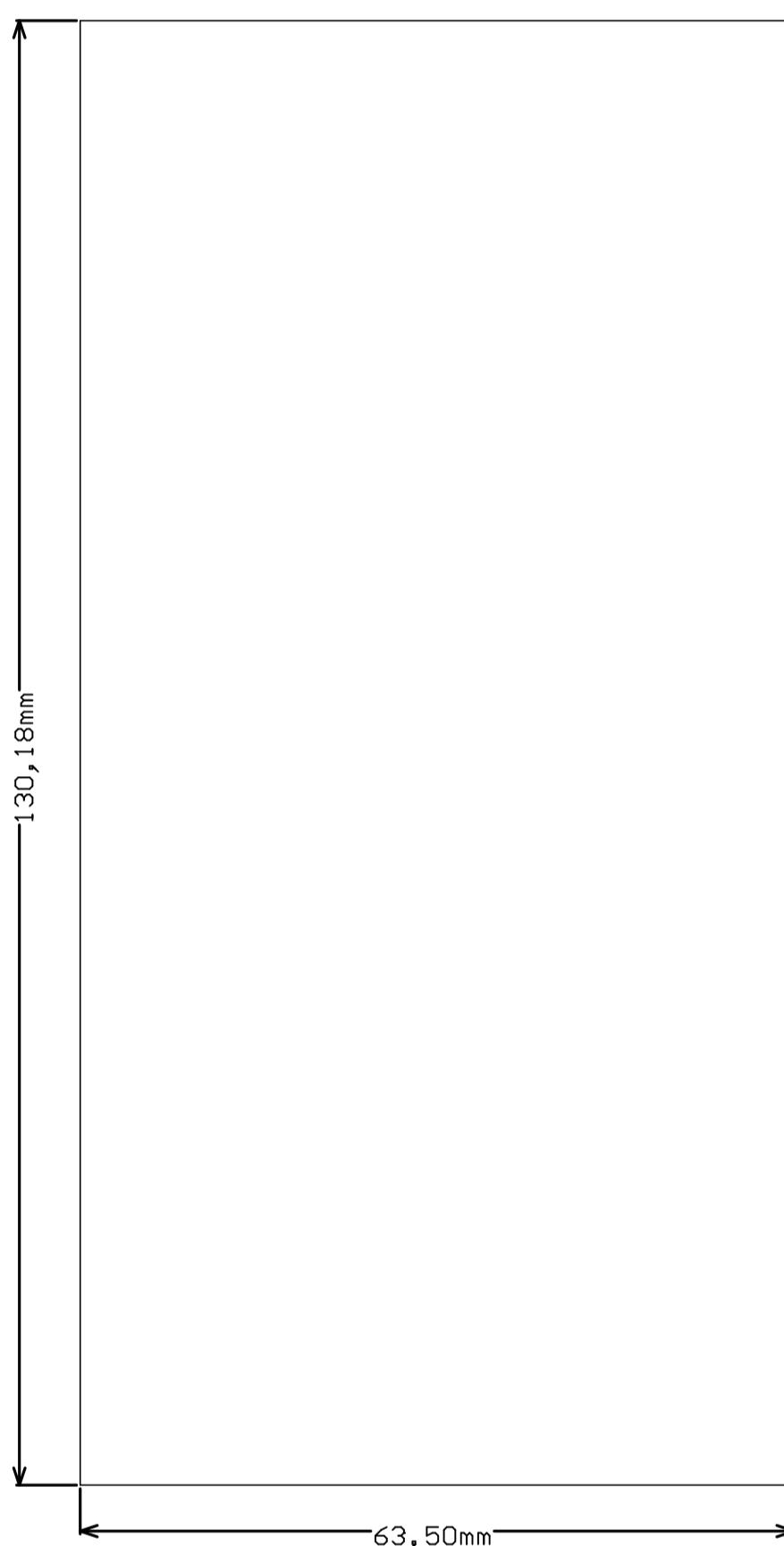
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LAYER NAME: Fabrication Panel Details - Sheet 2 of 11

PLOT FILE: Fabrication Panel Details - Sheet 2 of 11

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ALL DECIMAL +/- .005	CREATED BY:	S.Blicharz	DATE	2017-03-22
ANGULAR +/- 1:2	CHK'D BY:		SCALE	1051.00041.00_0
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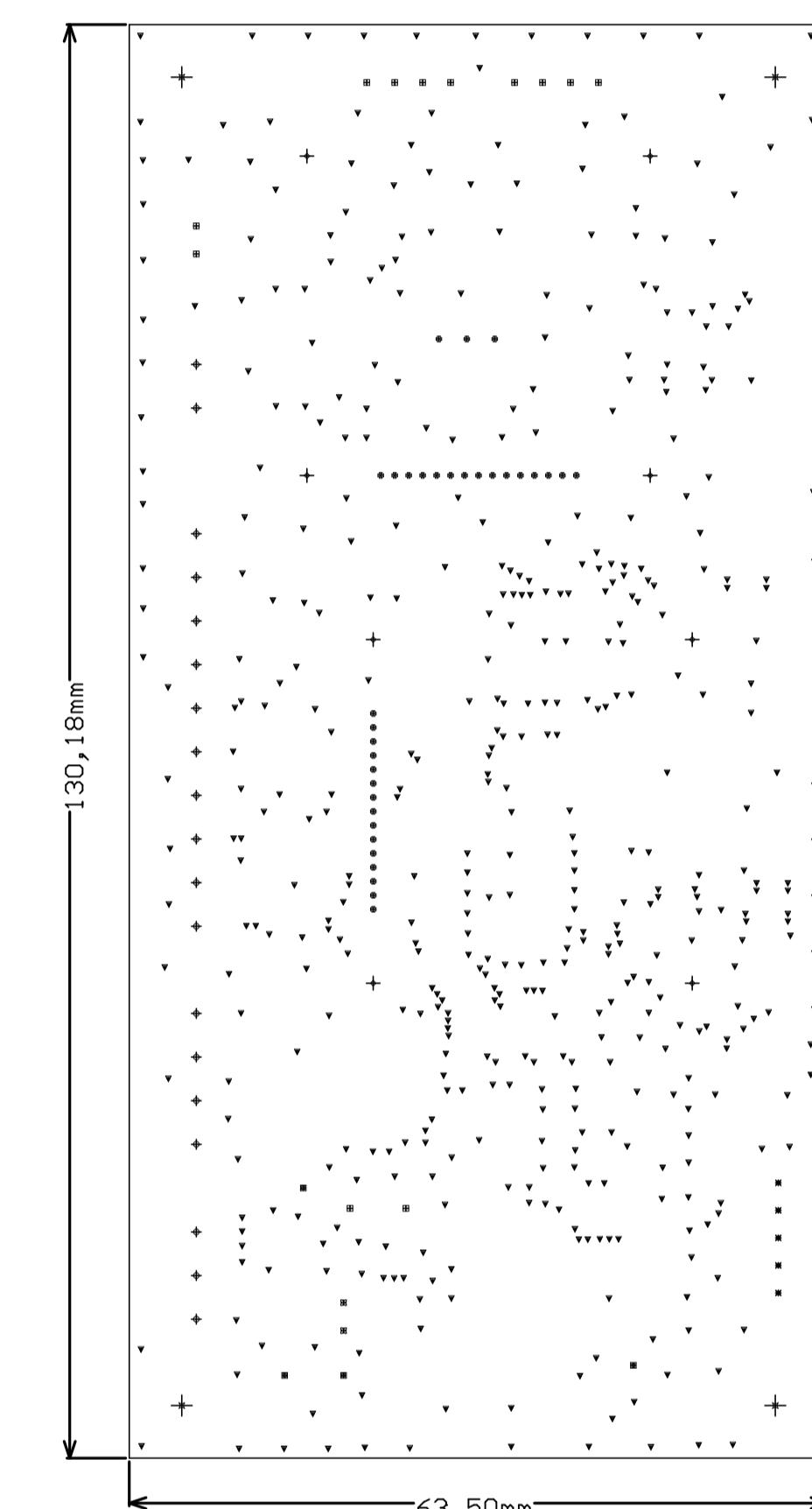
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Symbol	Count	Hole Size	Plated	Hole Type
+	2	35,00mil (0,889mm)	PTH	Round
□	4	31,50mil (0,800mm)	PTH	Round
◇	4	150,00mil (3,810mm)	NPTH	Round
×	5	39,37mil (1,000mm)	PTH	Round
◇	8	98,43mil (2,500mm)	NPTH	Round
□	12	40,00mil (1,016mm)	PTH	Round
○	19	70,00mil (1,778mm)	PTH	Round
○	33	27,56mil (0,700mm)	PTH	Round
▼	481	8,00mil (0,203mm)	PTH	Round
Total				
568 Total				

FINISHED HOLE DIAMETER SUMMARY

LAYER NAME: Hole Drill Details - Sheet 3 of 11

PLOT FILE: Hole Drill Details - Sheet 3 of 11

TOLERANCES UNLESS OTHERWISE SPECIFIED	FETCO DRIVEN TO INNOVATION			FOOD EQUIPMENT TECHNOLOGIES COMPANY, INC. Adamowicza 8, 05-530 Gora Kalwaria, POLAND PHONE: +48 22 7274787 FAX: +48 22 7274788 E-MAIL: engineering@fetco.com www.fetco.com		
ALL DIMENSIONS ARE IN METRIC	DRAWING NAME: PCB; CBS2100EE CBS2100EE.PdfDoc			DRAWING NO 1051.00041.00_0		
ALL DECIMAL +- .005 ANGULAR +- 1:2	CREATED BY: S.Blicharz	DATE: 2017-03-22	SCALE: 1.00	FIRST-ANGLE APP'D BY:	REVISION A.3	
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SHEET NAME AND NUMBER	Hole Drill Details - Sheet 3 of 11					

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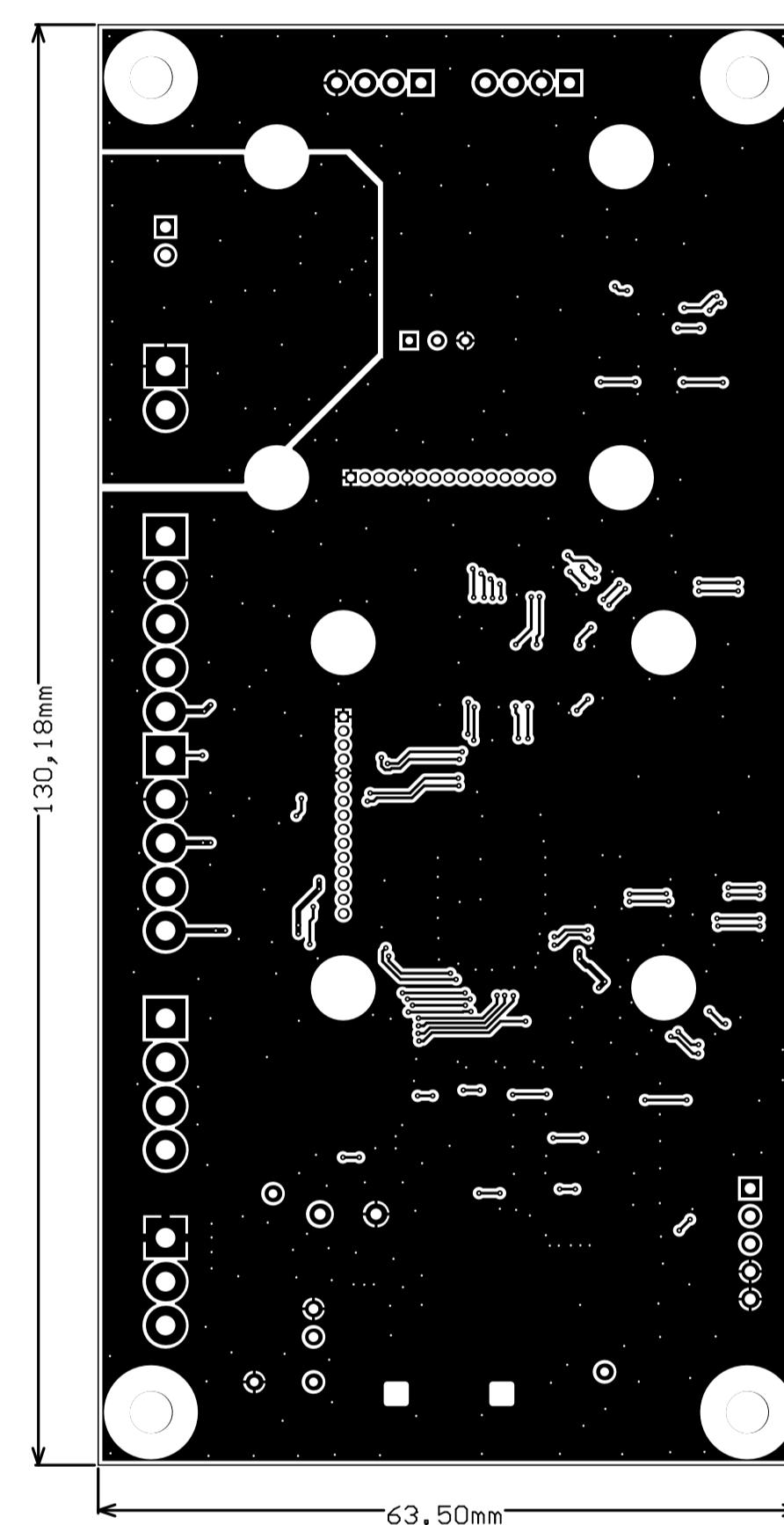
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LAYER NAME: Artwork - Top Layer - Sheet 4 of 11

PLOT FILE: Artwork - Top Layer - Sheet 4 of 11

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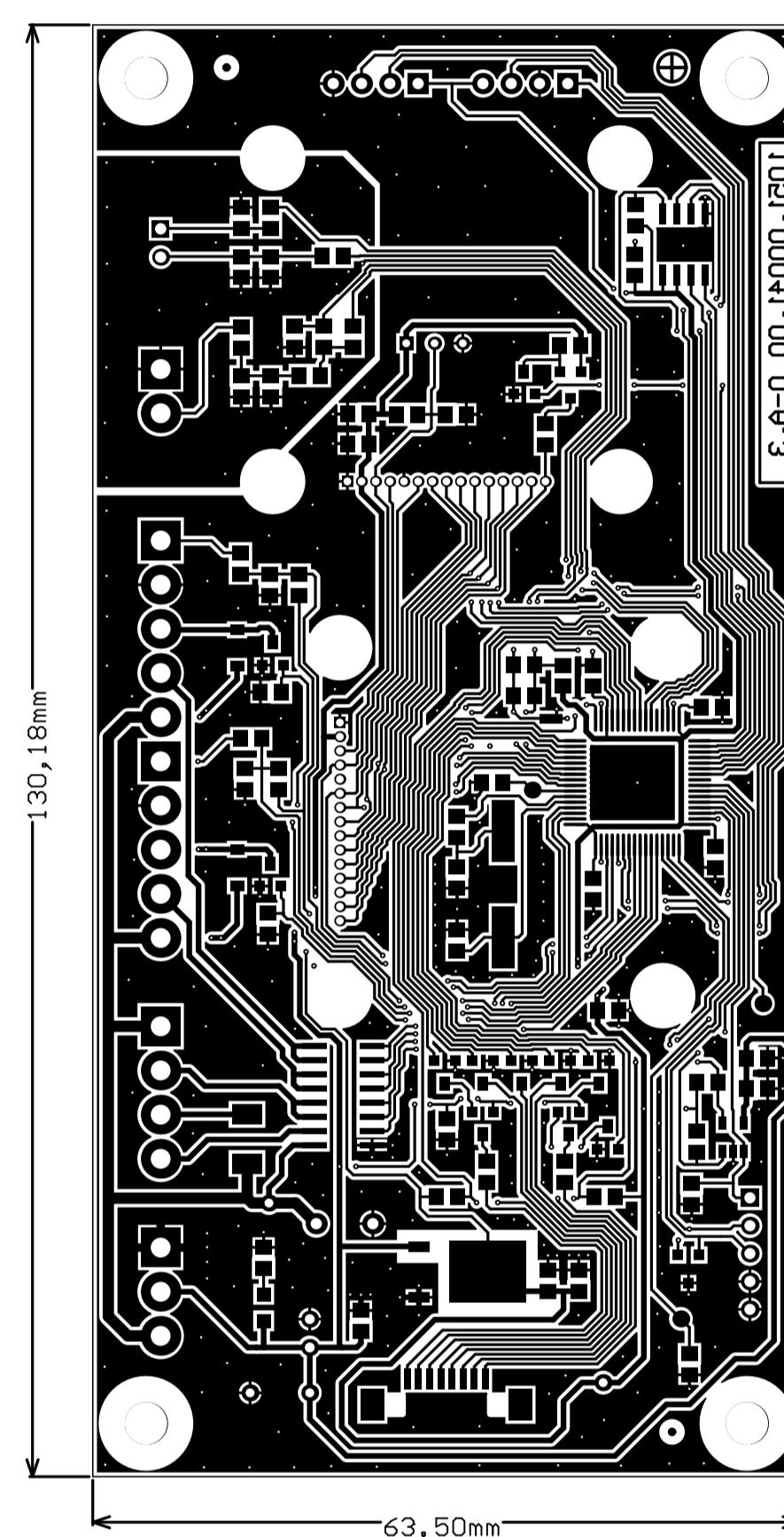
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LAYER NAME: Artwork - Bottom Layer - Sheet 5 of 11

PLOT FILE: Artwork - Bottom Layer - Sheet 5 of 11

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ANGULAR +/- 1:2	CHK'D BY:		SCALE	1.00
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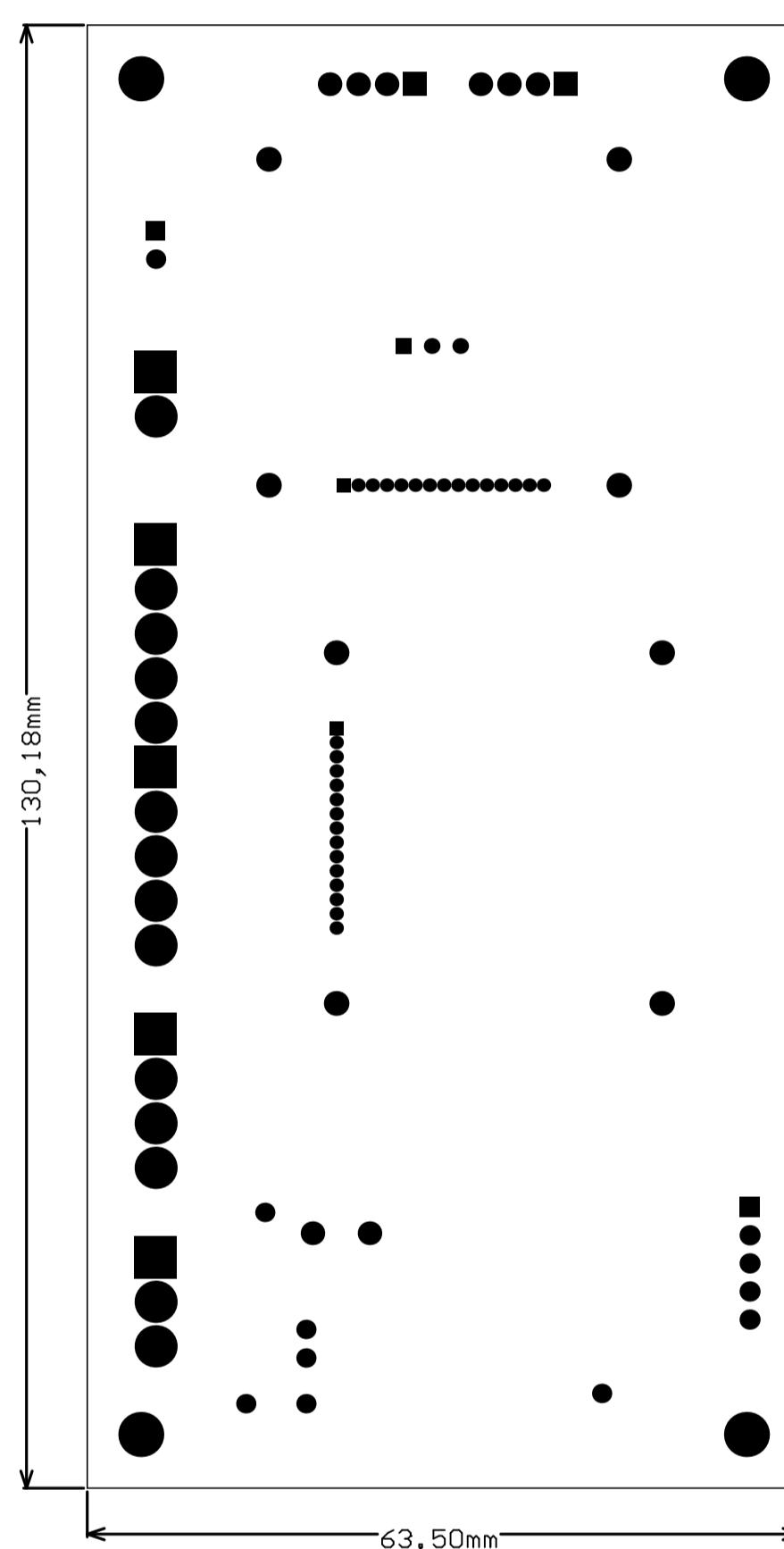
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LAYER NAME: Artwork - Top Solder Mask - Sheet 6 of 11

PLOT FILE: Artwork - Top Solder Mask - Sheet 6 of 11

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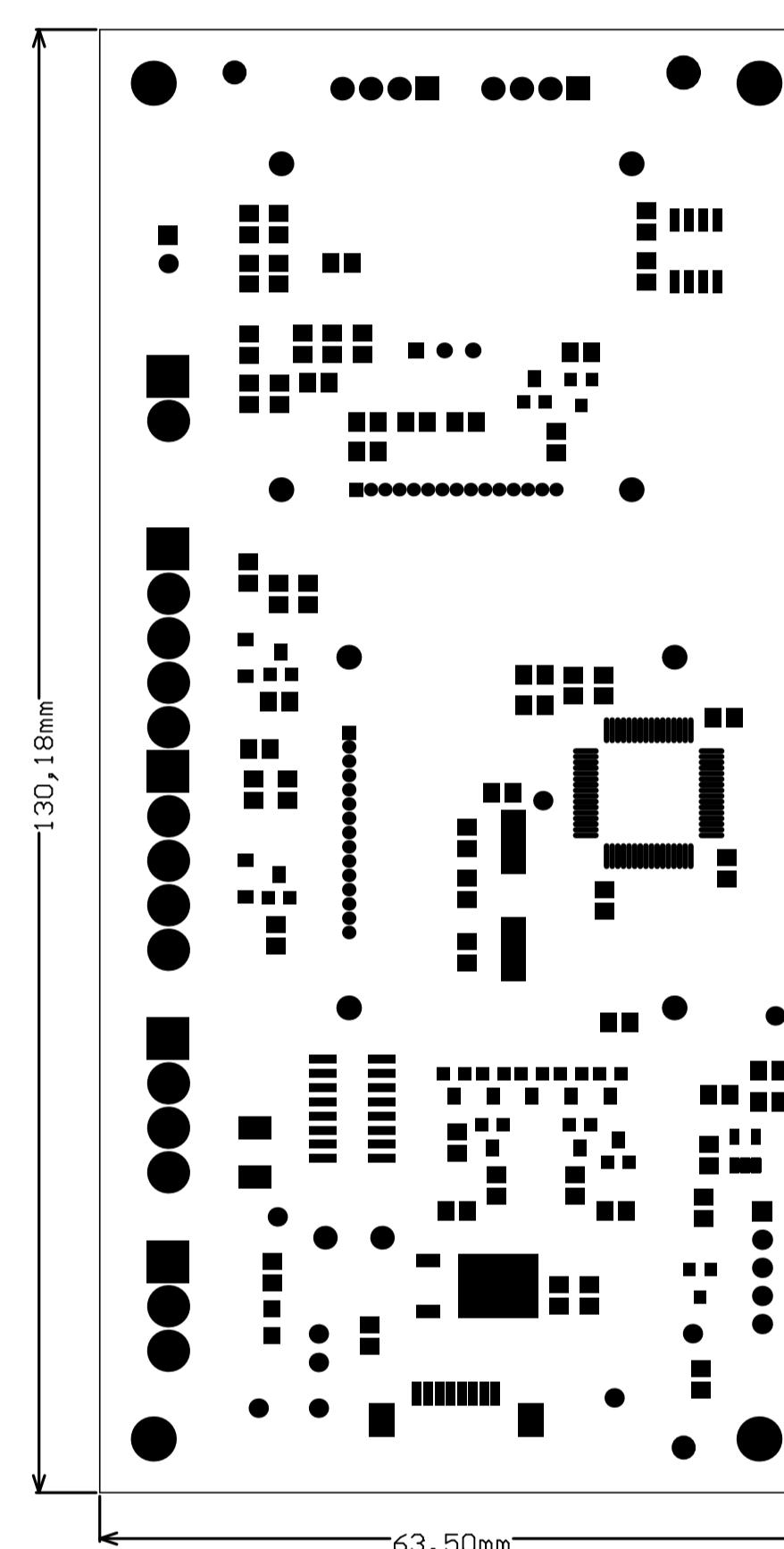
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LAYER NAME: Artwork - Bottom Solder Mask - Sheet 7 of 11

PLOT FILE: Artwork - Bottom Solder Mask - Sheet 7 of 11

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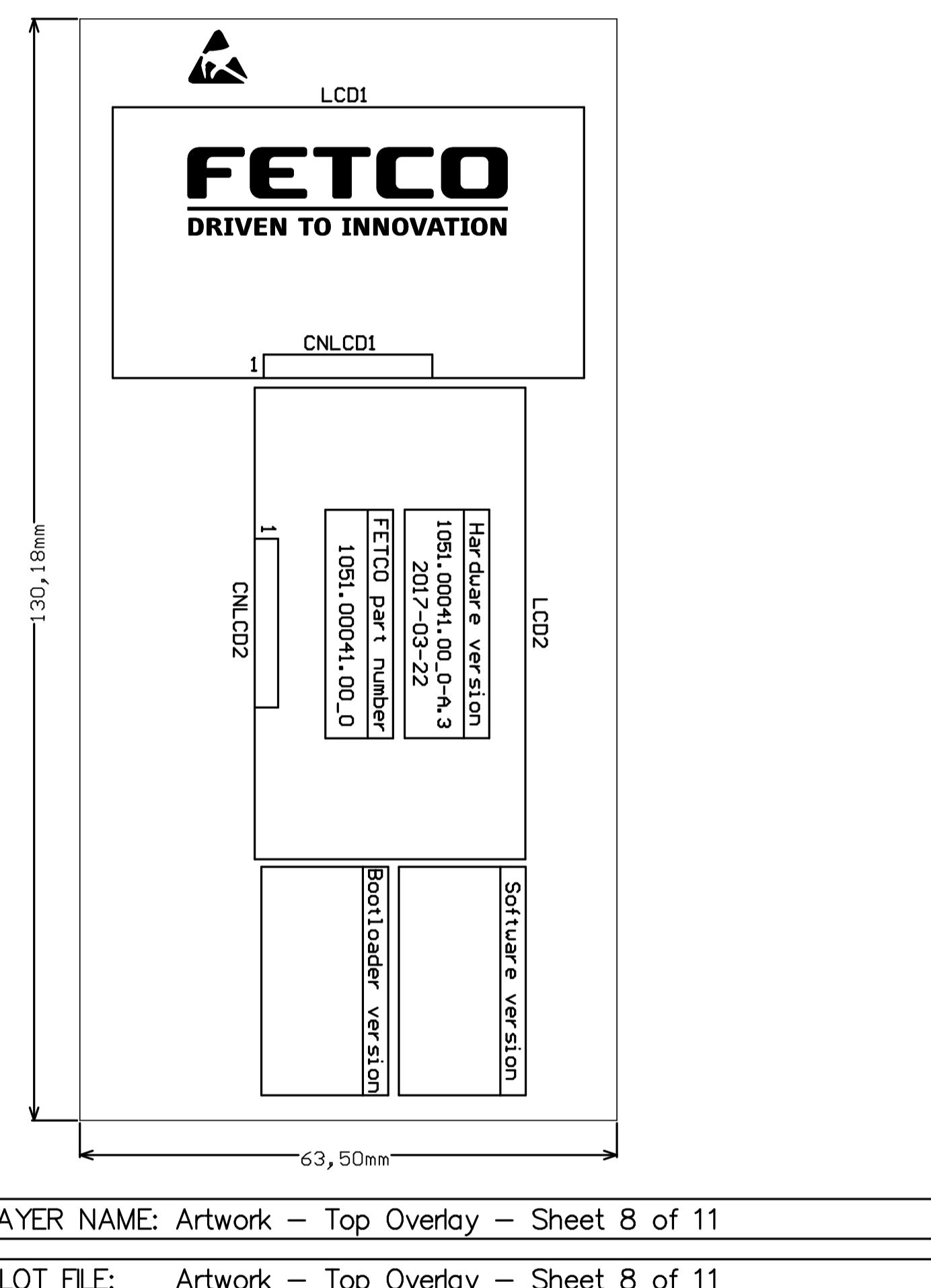
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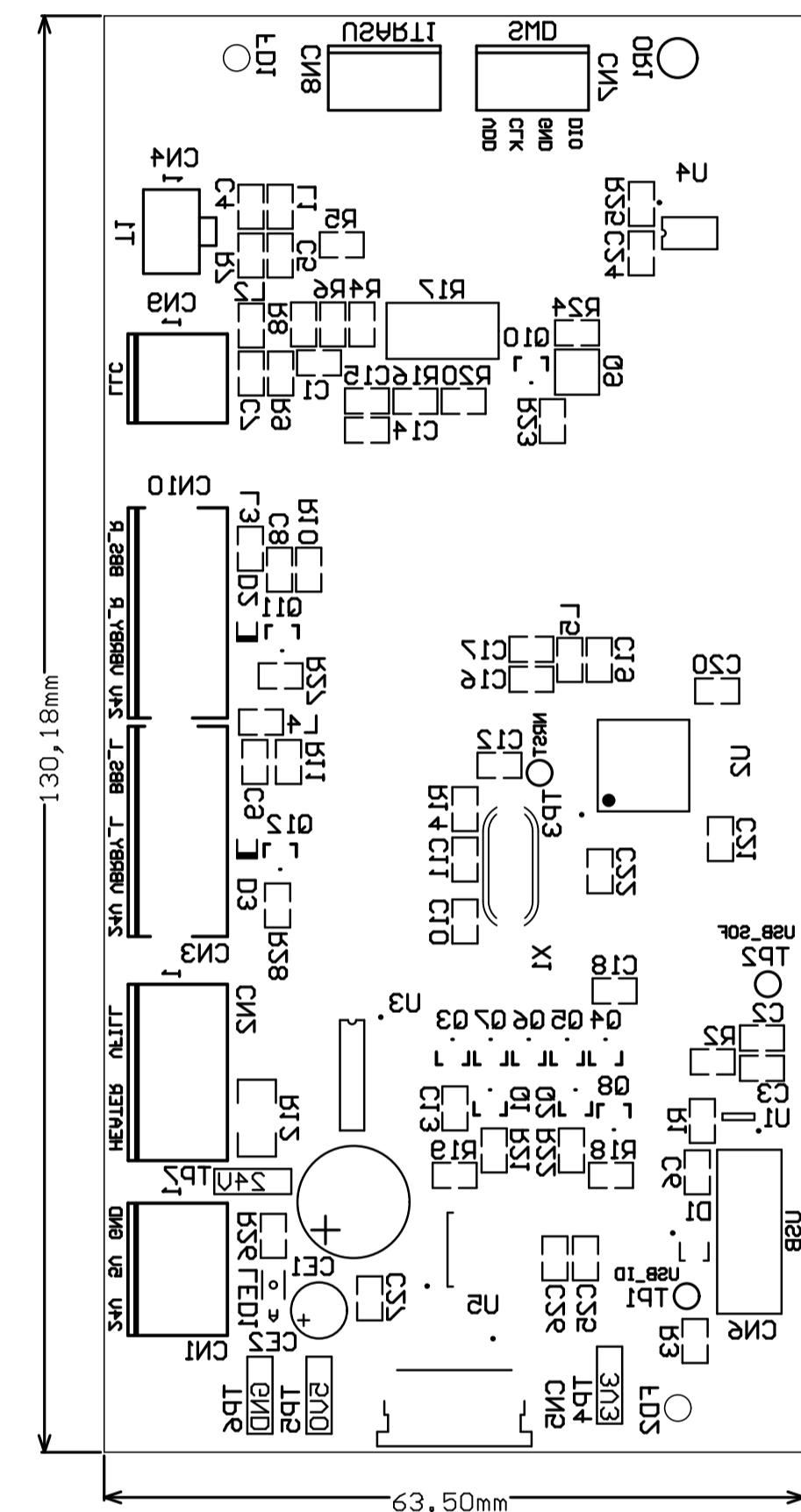
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LAYER NAME: Artwork - Bottom Overlay - Sheet 9 of 11

PLOT FILE: Artwork - Bottom Overlay - Sheet 9 of 11

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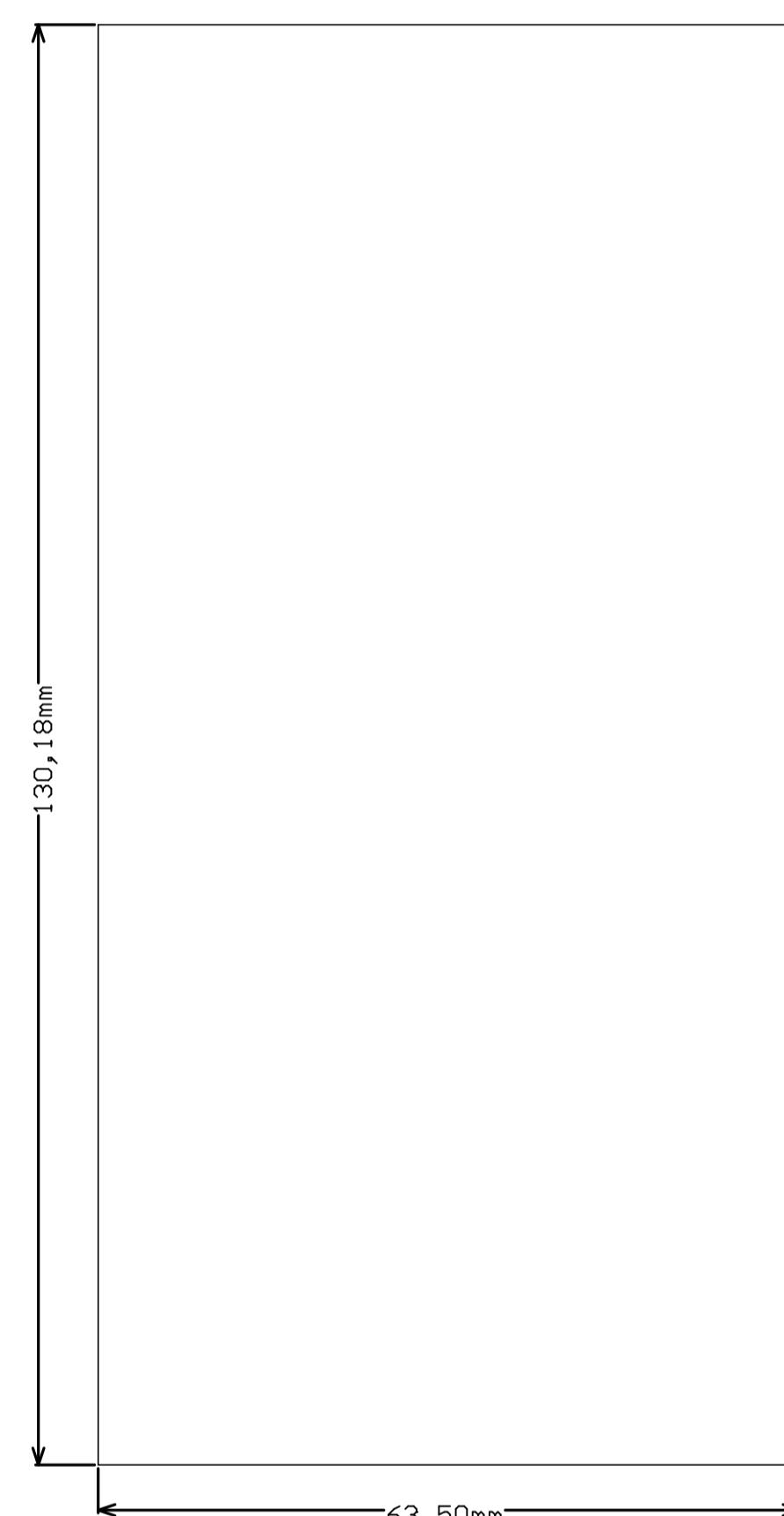
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LAYER NAME: Artwork - Top Peelable Mask - Sheet 10 of 11

PLOT FILE: Artwork - Top Peelable Mask - Sheet 10 of 11

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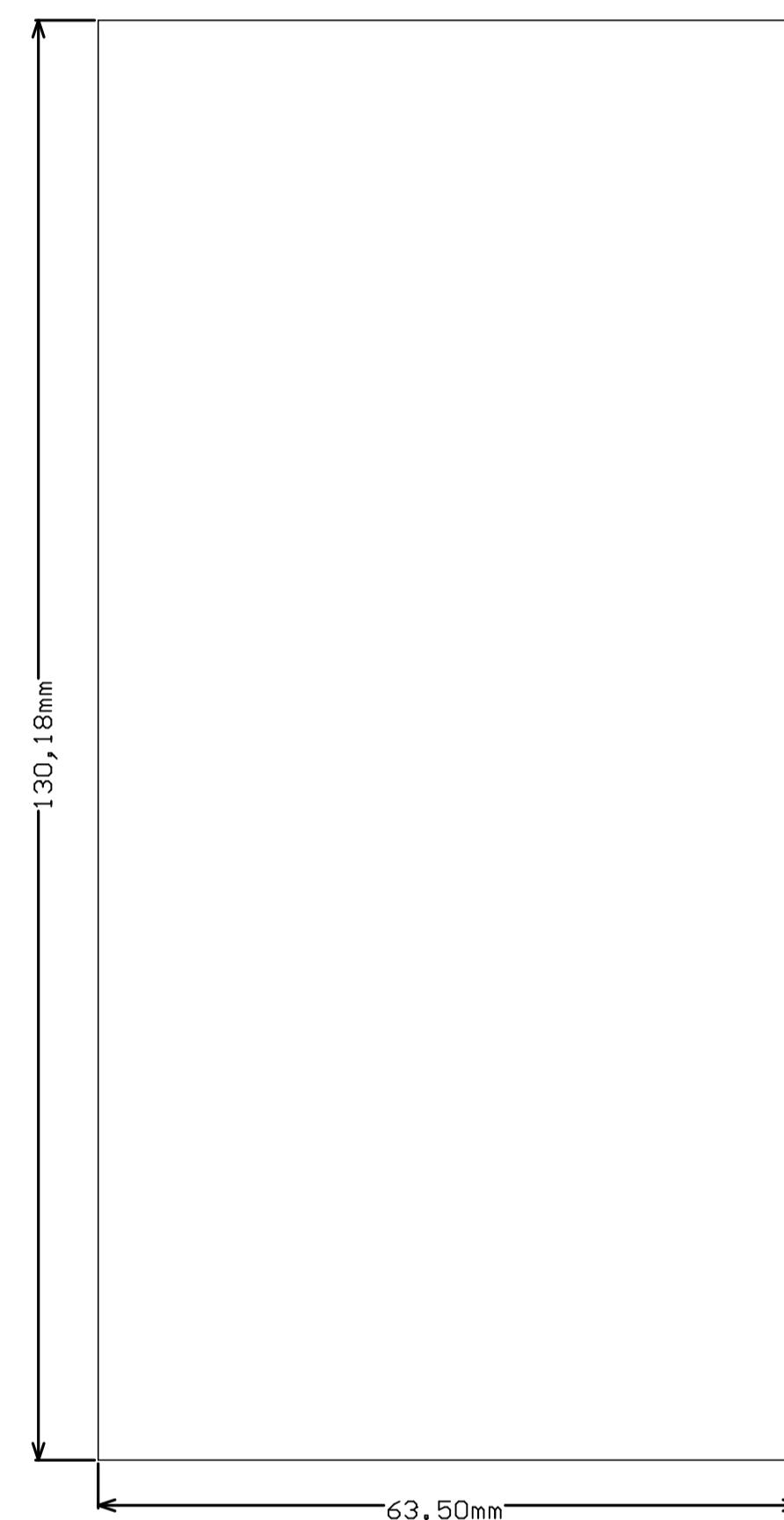
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LAYER NAME: Artwork - Bottom Peelable Mask - Sheet 11 of 11

PLOT FILE: Artwork - Bottom Peelable Mask - Sheet 11 of 11

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ANGULAR +/- 1:2	CHK'D BY:		SCALE:	1051.00041.00_0
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