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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 Sheet A1
GERBER FILE		GM32	Template Sheet

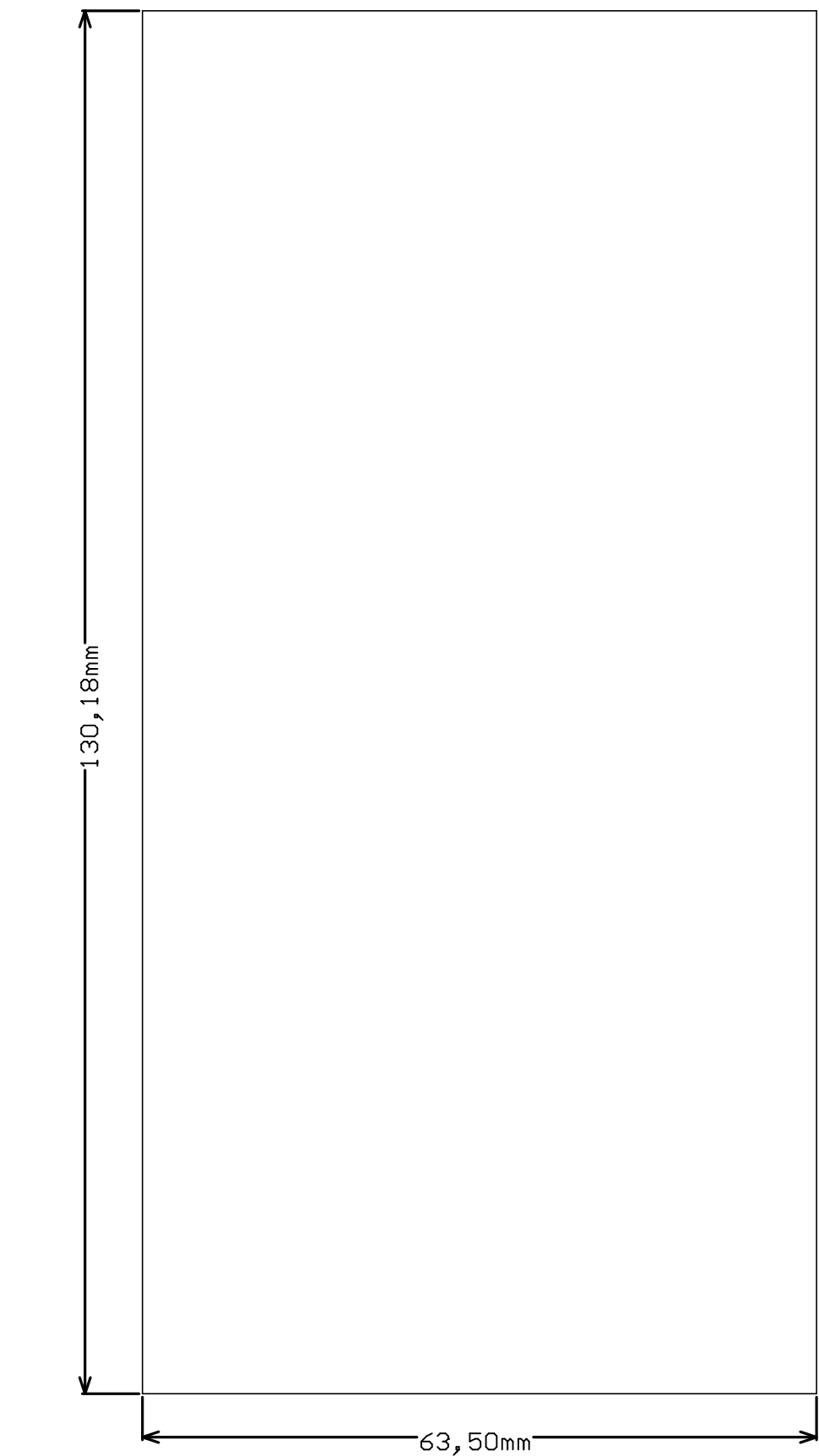
APERTURE LIST			
DRILL REPORT		DRR	
DRILL FILE		LDP	
EXCELLON DRILL		TXT	

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	1.3316
STRINGS	8415
ARCS	171
LANDS	
PADS	357
VIA'S	481
PRINT SCALE	
SCALE	SCALE: 1.00

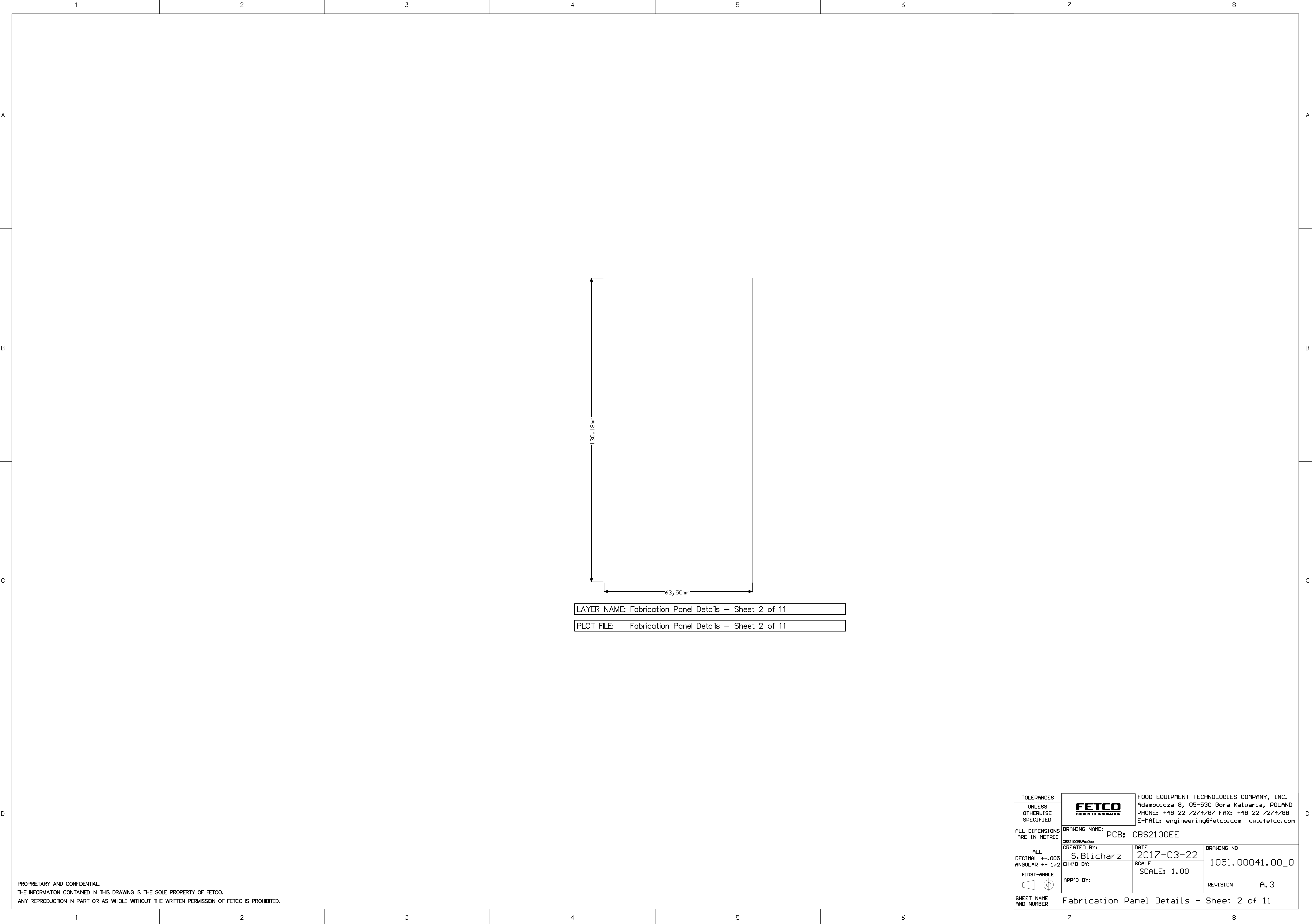


LAYER NAME: Fabrication Board Details – Sheet 1 of 11

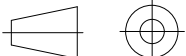
PLOT FILE: Fabrication Board Details – Sheet 1 of 11

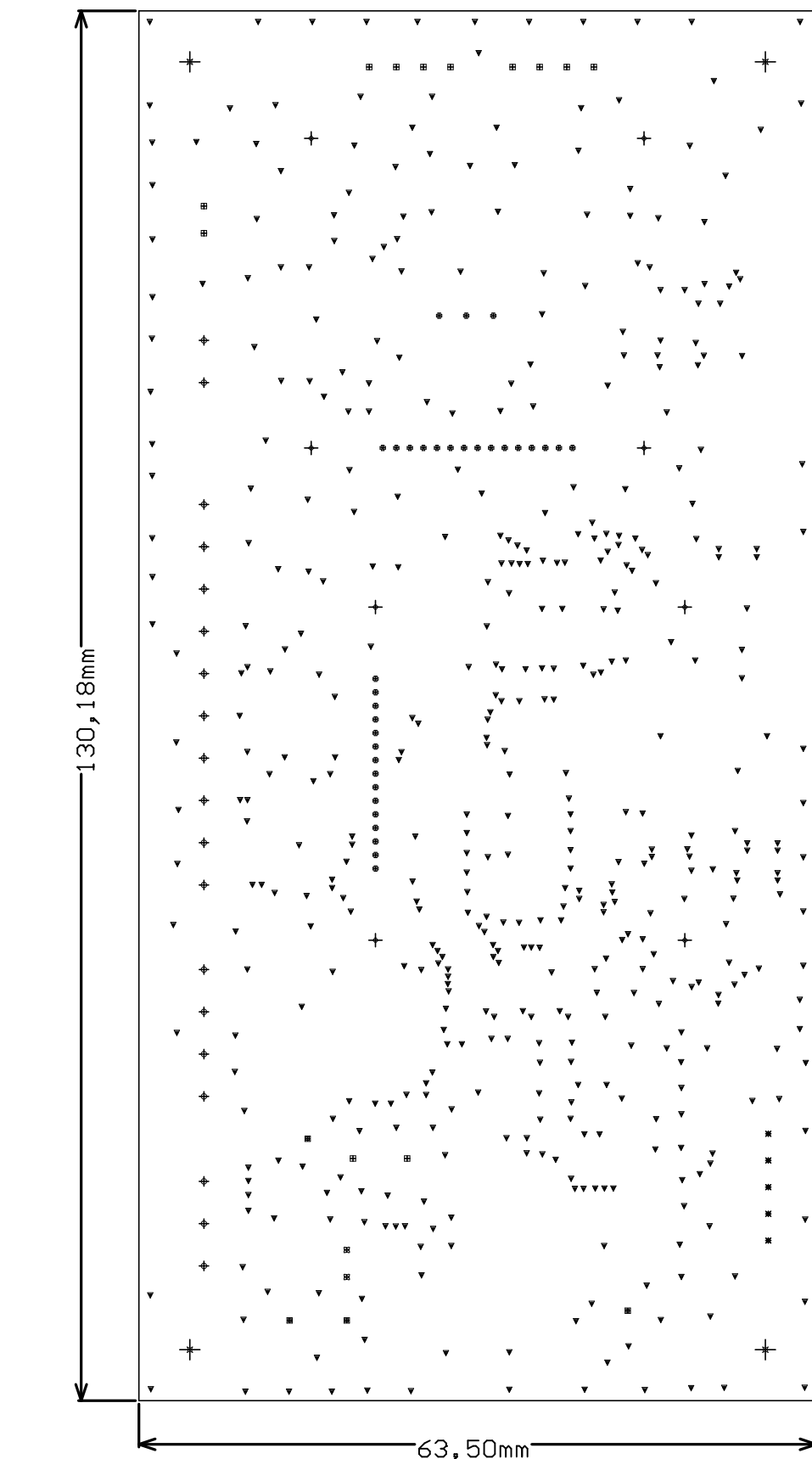
TOLERANCES UNLESS OTHERWISE SPECIFIED		FOOD EQUIPMENT TECHNOLOGIES COMPANY, INC. Adamowicza 8, 05-530 Gora Kalwaria, POLAND PHONE: +48 22 7274787 FAX: +48 22 7274788 E-MAIL: engineering@fetco.com www.fetco.com	
		DRAWING NAME: PCB; CBS2100EE	
ALL DIMENSIONS ARE IN METRIC	CBS2100EE.PcbDoc	DATE 2017-03-22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

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ALL DIMENSIONS ARE IN METRIC		DRAWING NAME: PCB; CBS2100EE			
		CBS2100EE.PanDoc			
ALL DECIMAL +/- .005 ANGULAR +/- 1/2 FIRST-ANGLE 		CREATED BY: S.Blicharz		DATE: 2017-03-22	
		CHK'D BY:		SCALE: 1.00	
		APP'D BY:			
				DRAWING NO 1051.00041.00_0	
				REVISION A.3	
SHEET NAME AND NUMBER		Fabrication Panel Details - Sheet 2 of 11			



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
568 Total				

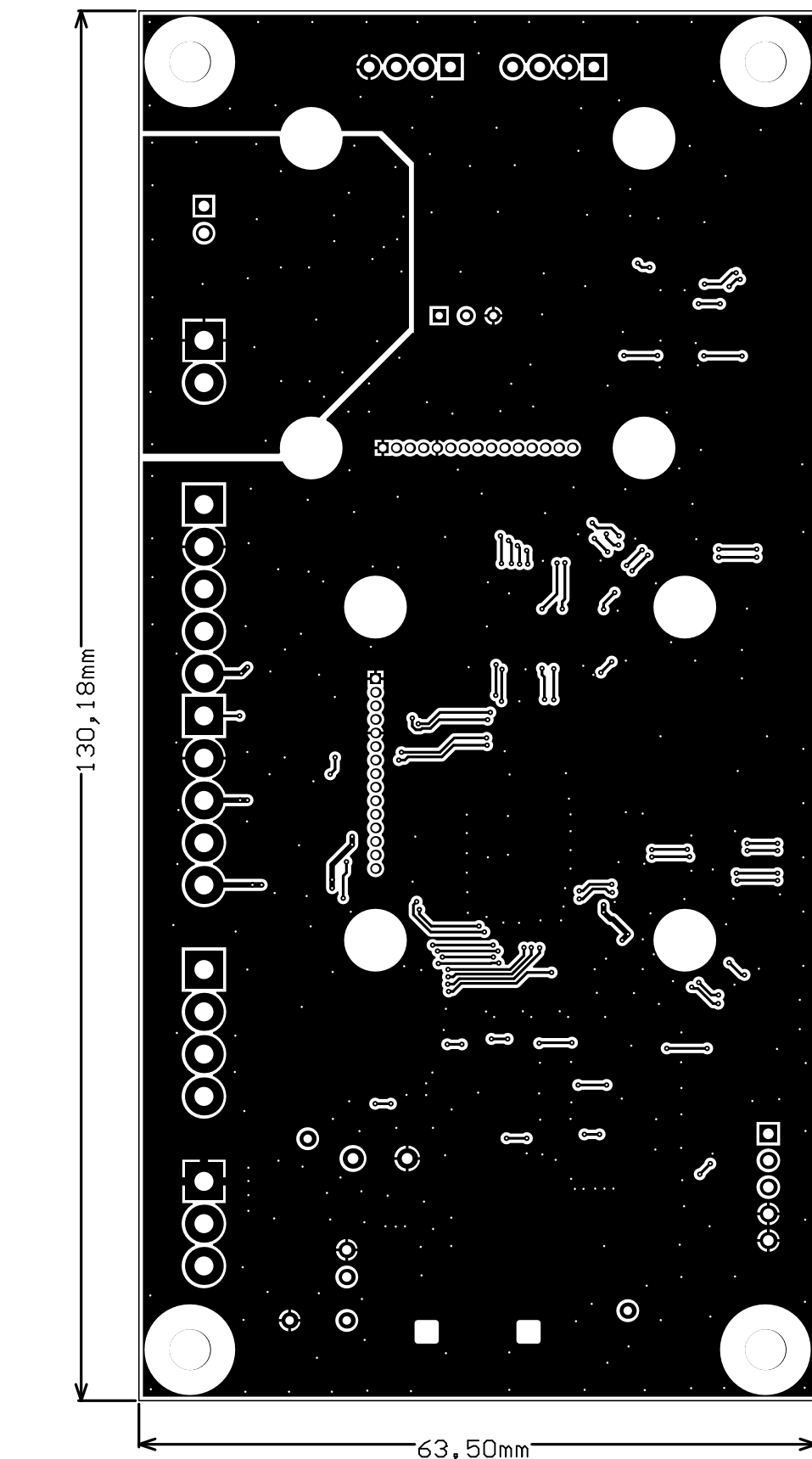
FINISHED HOLE DIAMETER SUMMARY

LAYER NAME: Hole Drill Details – Sheet 3 of 11

PLOT FILE: Hole Drill Details – Sheet 3 of 11

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	DRAWING NAME: PCB; CBS2100EE			
	CREATED BY: S.Blicharz	DATE 2017-03-22	DRAWING NO 1051.00041.00_0	
	CHK'D BY:	SCALE SCALE: 1.00	REVISION A.3	
SHEET NAME AND NUMBER Hole Drill Details – Sheet 3 of 11				



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

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

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ALL DIMENSIONS ARE IN METRIC		DRAWING NAME: PCB; CBS2100EE			
CBS2100EE.PcbDoc		DATE		DRAWING NO	
ALL DECIMAL +/- .005 ANGULAR +/- 1/2		2017-03-22		1051.00041.00_0	
FIRST-ANGLE		SCALE			
		SCALE: 1.00			
APP'D BY:				REVISION A.3	
SHEET NAME AND NUMBER		Artwork - Top Layer - Sheet 4 of 11			

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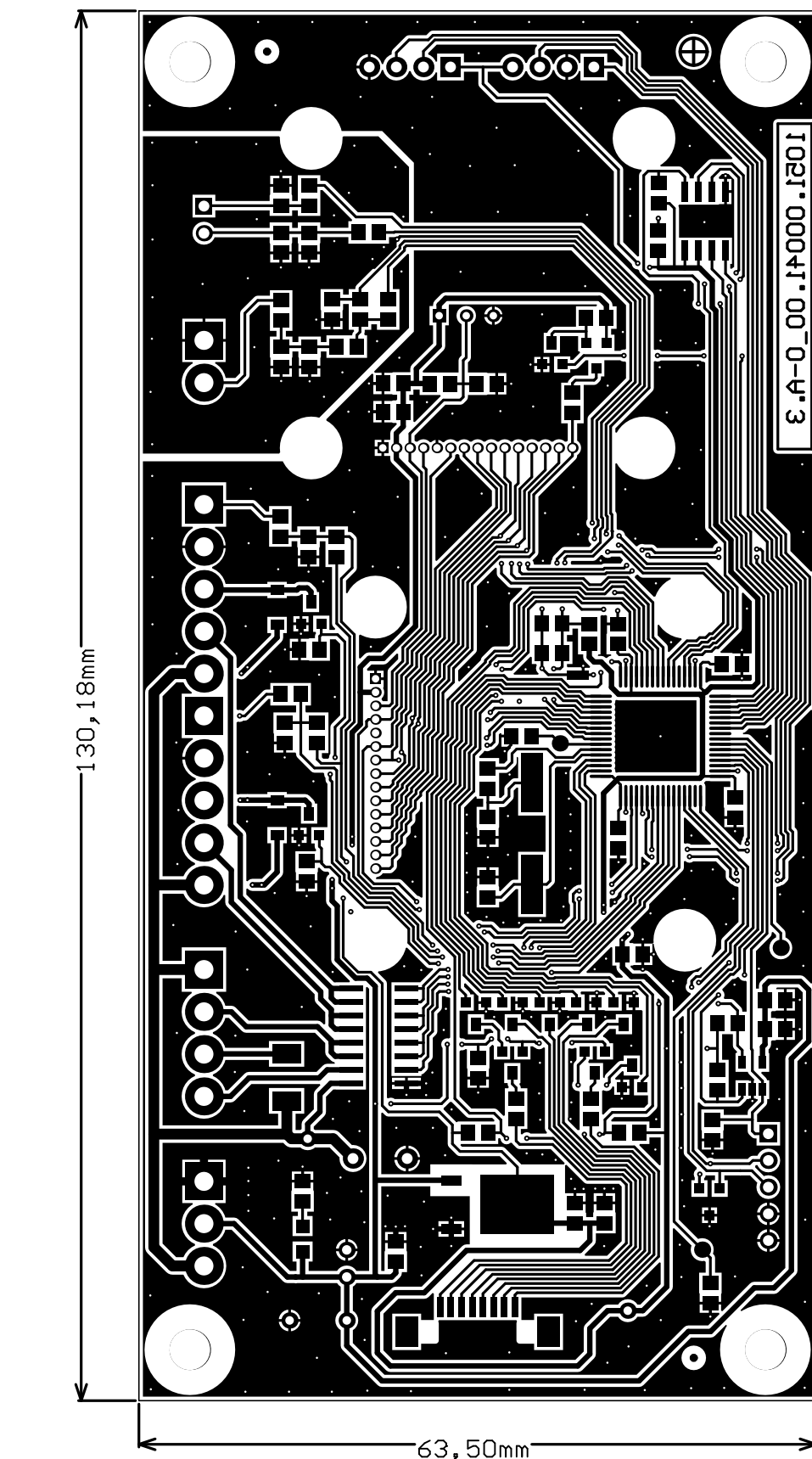
8

A

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C

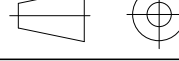
D



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

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

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ALL DIMENSIONS ARE IN METRIC		DRAWING NAME: PCB; CBS2100EE			
ALL DECIMAL +/- .005 ANGULAR +/- 1/2		CBS2100EE.PcbDoc CREATED BY: S.Blicharz CHK'D BY:		DATE 2017-03-22 SCALE SCALE: 1.00	DRAWING NO 1051.00041.00_0
FIRST-ANGLE 		APP'D BY:			
SHEET NAME AND NUMBER		Artwork - Bottom Layer - Sheet 5 of 11			

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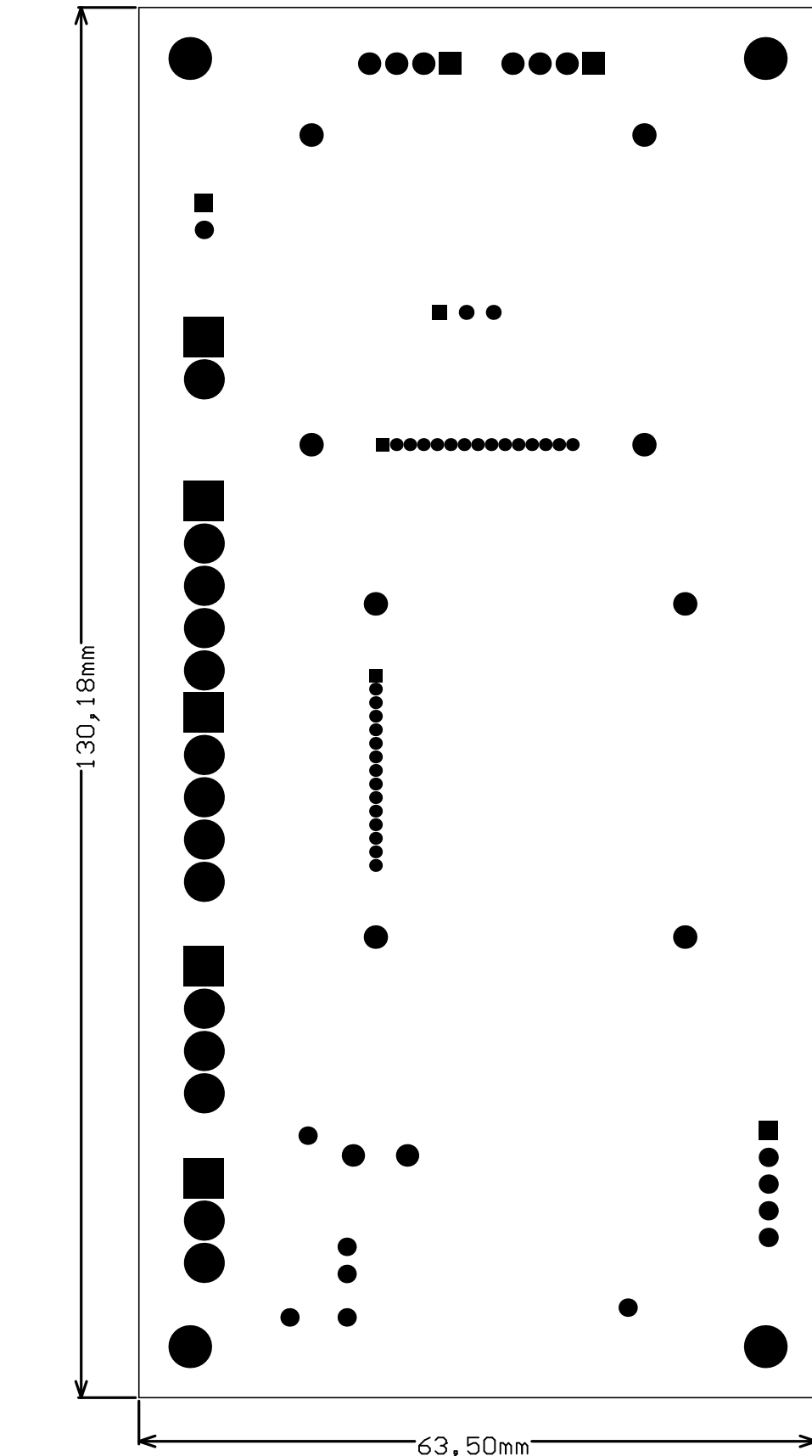
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LAYER NAME: Artwork – Top Solder Mask – Sheet 6 of 11

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

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ALL DIMENSIONS ARE IN METRIC		DRAWING NAME: PCB; CBS2100EE			
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SHEET NAME AND NUMBER		Artwork - Top Solder Mask - Sheet 6 of 11			

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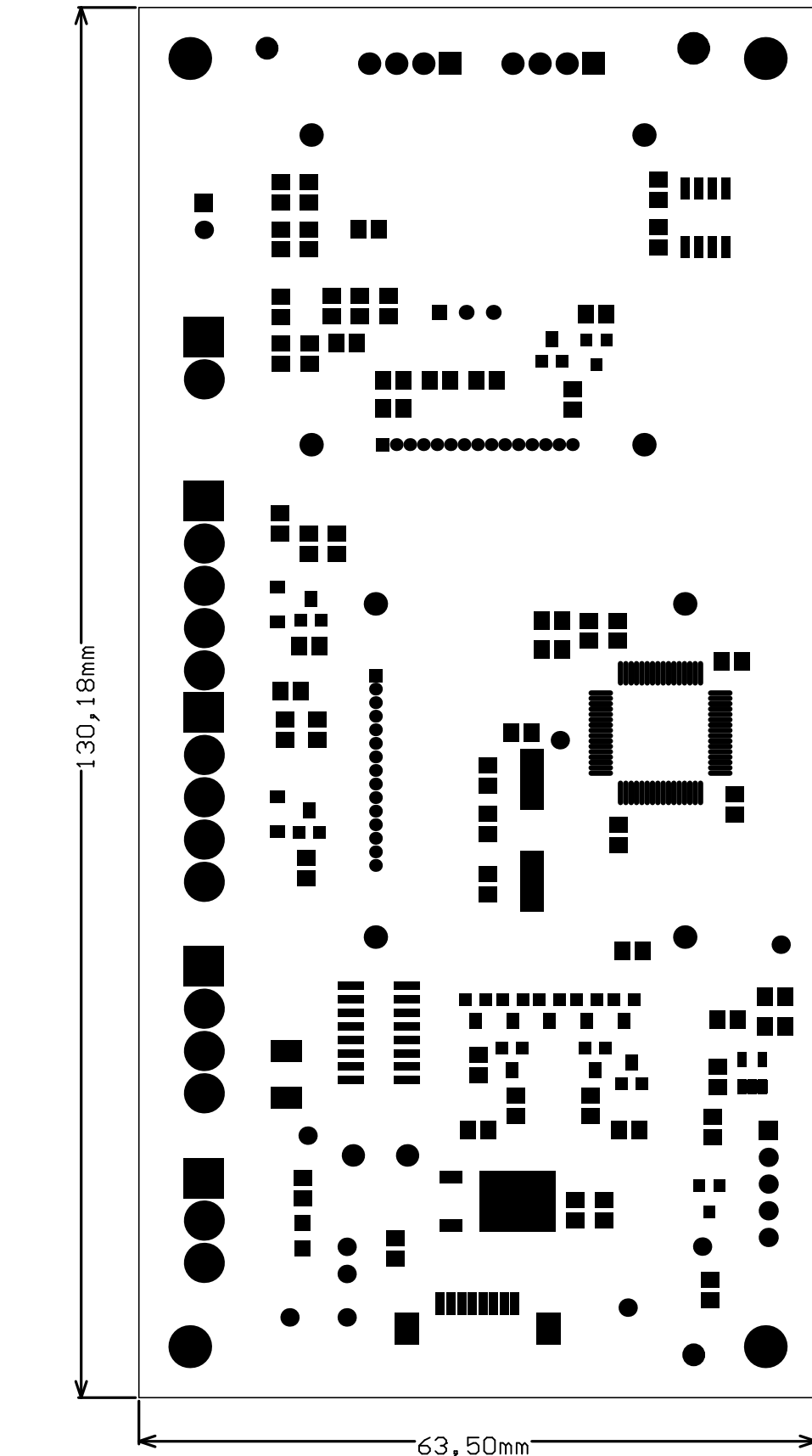
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LAYER NAME: Artwork – Bottom Solder Mask – Sheet 7 of 11

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

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ALL DIMENSIONS ARE IN METRIC		DRAWING NAME: PCB; CBS2100EE			
ALL DECIMAL $\pm$ -.005 ANGULAR $\pm$ 1/2 FIRST-ANGLE		CBS2100EE.PcbDoc CREATED BY: S.Blicharz CHK'D BY:		DATE 2017-03-22 SCALE SCALE: 1.00	DRAWING NO 1051.00041.00_0
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SHEET NAME AND NUMBER		Artwork - Bottom Solder Mask - Sheet 7 of 11			

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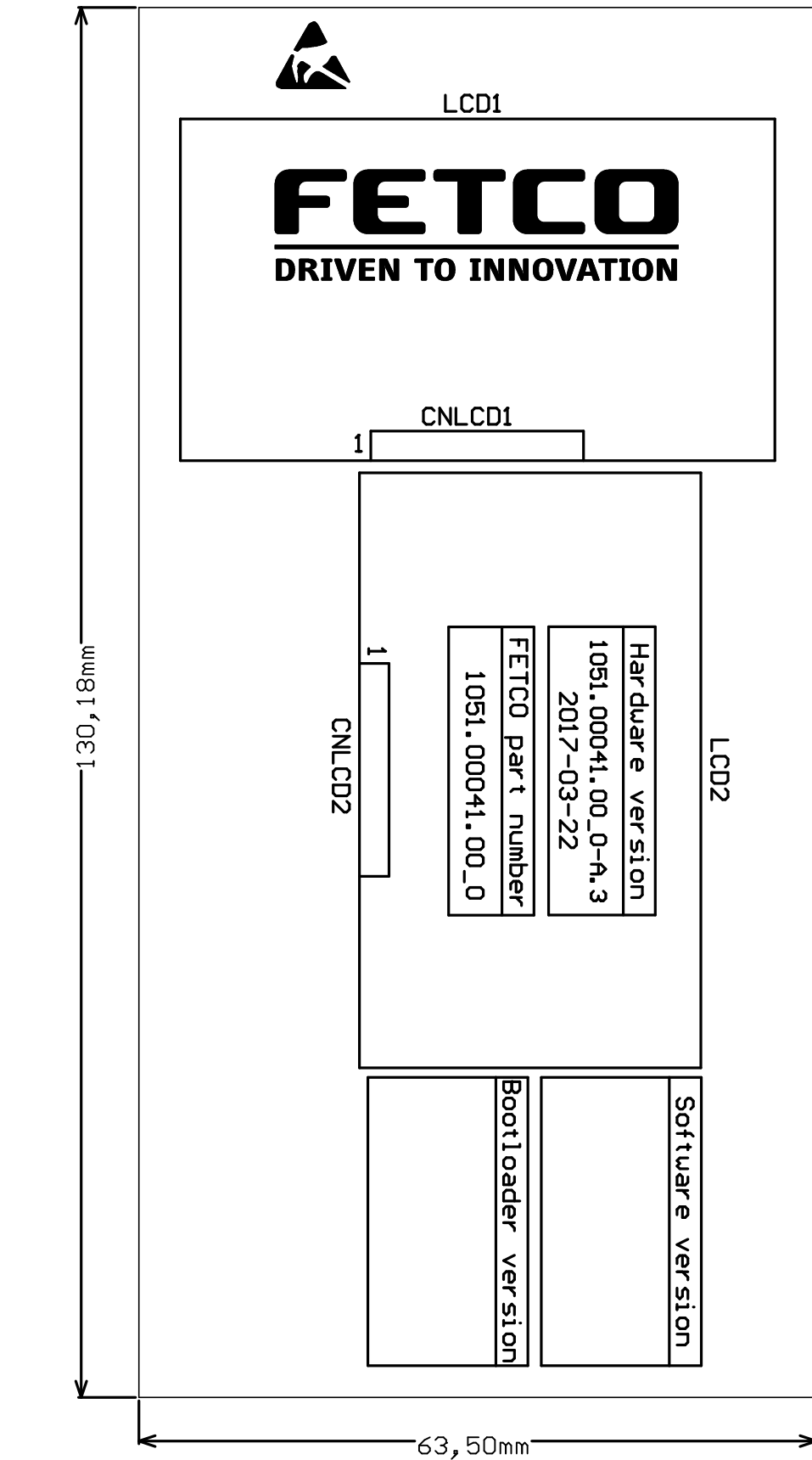
A

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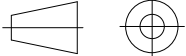
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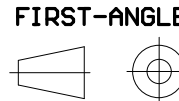


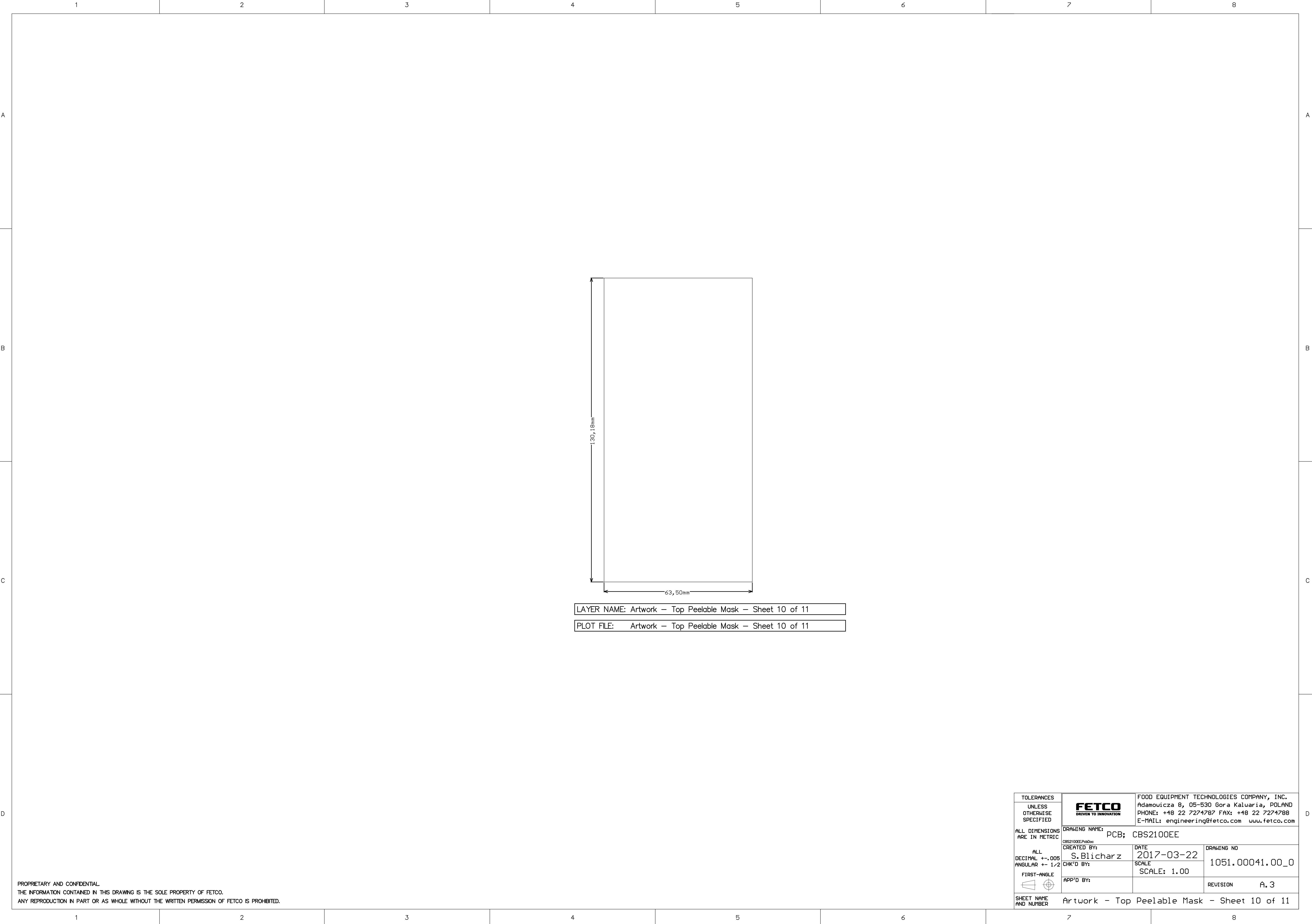
LAYER NAME: Artwork – Top Overlay – Sheet 8 of 11

PLOT FILE: Artwork – Top Overlay – Sheet 8 of 11

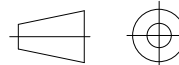
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ALL DIMENSIONS ARE IN METRIC ALL DECIMAL +/- .005 ANGULAR +/- 1/2° FIRST-ANGLE 		DRAWING NAME: PCB; CBS2100EE			
		CBS2100EE.PcbDoc			
		CREATED BY: S.Blicharz		DATE 2017-03-22	
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APP'D BY:				DRAWING NO 1051.00041.00_0	
				REVISION A.3	
SHEET NAME AND NUMBER		Artwork - Top Overlay - Sheet 8 of 11			

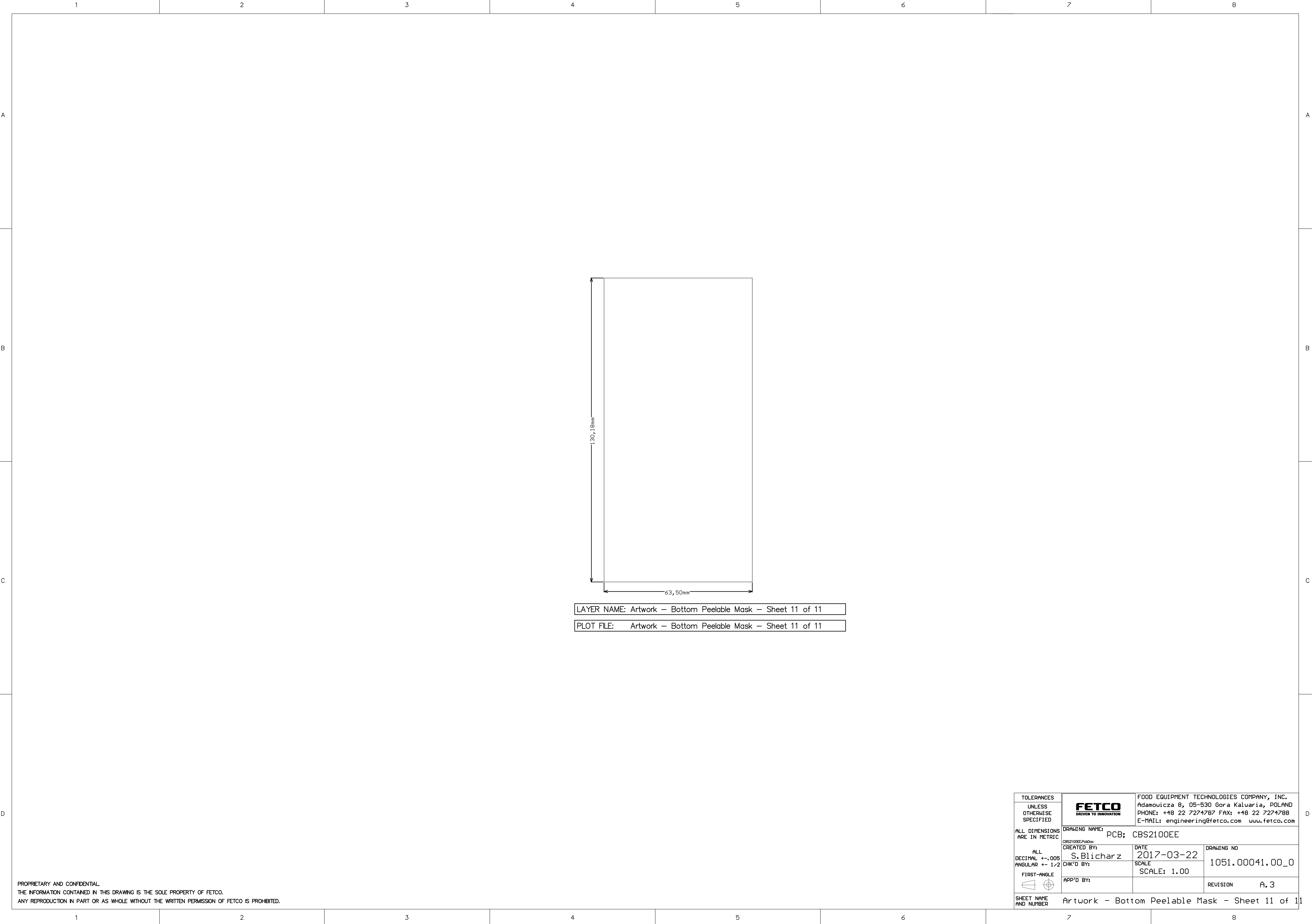
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ALL DECIMAL $\pm .005$ ANGULAR $\pm 1/2^\circ$ FIRST-ANGLE 		CBS2100EE.PcbDoc		DRAWING NO	
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APP'D BY:				REVISION A.3	
SHEET NAME AND NUMBER		Artwork - Bottom Overlay - Sheet 9 of 11			



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ALL DIMENSIONS ARE IN METRIC ALL DECIMAL $\pm .005$ ANGULAR $\pm 1/2$ FIRST-ANGLE 		DRAWING NAME: PCB; CBS2100EE			
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		CREATED BY: S.Blicharz		DATE 2017-03-22	
		CHK'D BY:		SCALE 1051.00041.00_0	
APP'D BY:				SCALE: 1.00	
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				1051.00041.00_0	
				REVISION A.3	
SHEET NAME AND NUMBER		Artwork - Top Peelable Mask - Sheet 10 of 11			



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UNLESS OTHERWISE SPECIFIED					
ALL DIMENSIONS ARE IN METRIC		DRAWING NAME: PCB; CBS2100EE			
ALL DECIMAL $\pm .005$ ANGULAR $\pm 1/2$		CBS2100E.PsbDoc CREATED BY: S.Blicharz		DATE 2017-03-22	
FIRST-ANGLE 		CHK'D BY:		DRAWING NO 1051.00041.00_0	
		APP'D BY:		SCALE SCALE: 1.00	
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SHEET NAME AND NUMBER		Artwork - Bottom Peelable Mask - Sheet 11 of 11			