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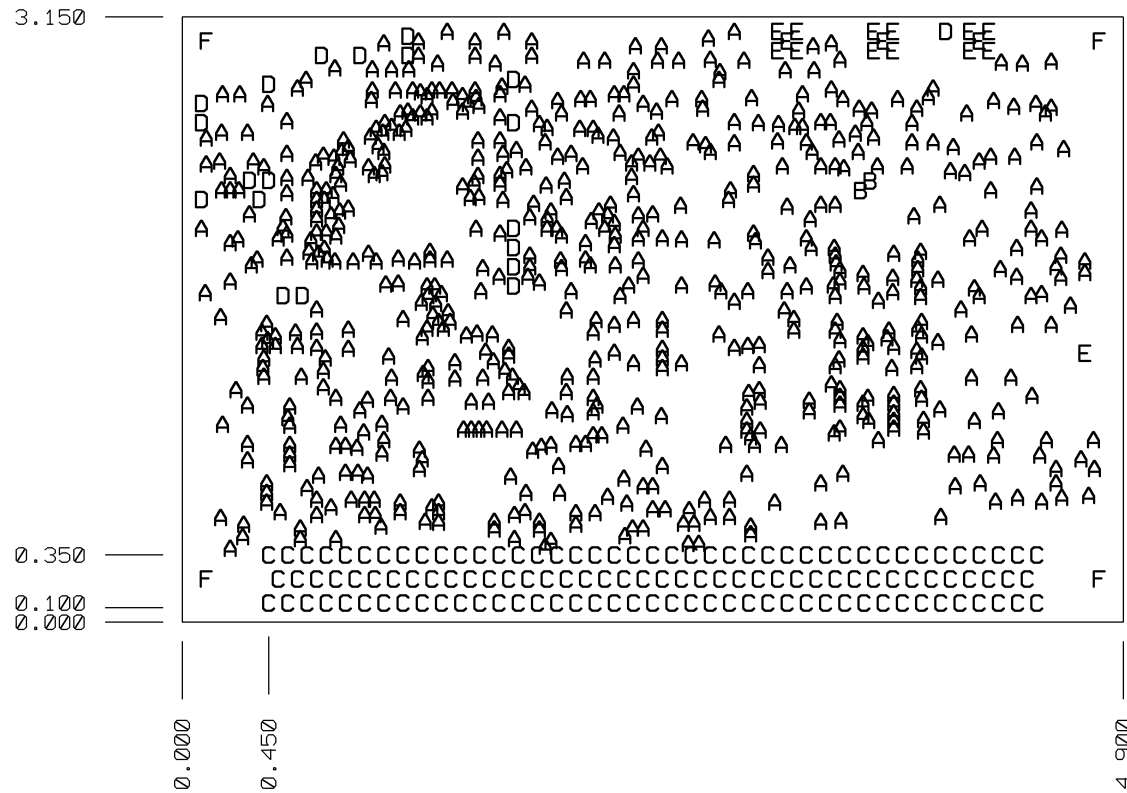
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NOTES:

1. FABRICATE PER IPC-6012 CLASS 3.
2. BOARD CONSISTS OF 8 LAYERS OF CIRCUITRY EACH VIEWED FROM THE TOP SIDE. SEE STACKUP FOR OVERALL DIMENSIONS AND INDIVIDUAL LAYER REQUIREMENTS.
3. MATERIAL: EPOXY GLASS, FR4 WITH A Tg (GLASS TRANSITION TEMPERATURE) OF 170° C MINIMUM.
4. ALL TRACE WIDTHS ARE FINISH DIMENSIONS WITH ±10% TOLERANCE UNLESS OTHERWISE SPECIFIED IN THE STACKUP BELOW.
5. HOLE DIMENSIONS ARE FINISH SIZES WITH ±0.003" TOLERANCE UNLESS OTHERWISE SPECIFIED IN THE DRILL TABLE. VIA'S ARE TO BE HELD TO THE SAME SPECIFICATION AS OTHER HOLES.
6. HOLE PLATING AFTER SMEAR REMOVAL (PER IPC 6012 PARAGRAPH 3.6.2.6) TO BE 0.001" NOMINAL +0.002" -0.0002" TOLERANCE.
7. BOARD FINISH: SOLDER MASK OVER BARE COPPER THEN HASL. HOLES SMALLER THAN 0.014" MAY BE PLUGGED. THE SOLDER MASK SHALL BE LIQUID PHOTO-IMAGEABLE IN THE COLOR GREEN.
8. SOLDERMASK CLEARANCES ARE PLOTTED THE SAME SIZE AS THE OUTER PAD, THE VENDOR WILL ADJUST TO MEET THEIR REQUIREMENTS.
9. SILK SCREEN LEGEND USING NON-CONDUCTIVE WHITE EPOXY INK.
10. REMOVE ALL LEGEND INK AND SOLDER MASK FROM PADS UNLESS OTHERWISE SPECIFIED.
11. ADD DATE CODE, MANUFACTURING CODE, AND MANUFACTURES SERIAL NUMBER TO THE BOARD AT THE PLACES INDICATED ON THE LEGEND LAYER.



STACKUP	LAYER DESCRIPTION	LAYER NAME	FINISH COPPER WEIGHT	IMPEDANCE OHM
---	SILK SCREEN LEGEND	SS_TOP		
---	SOLDER MASK	SM_TOP		
=====	TOP SIDE TRACE	LAYER1	1 OZ	NONE
=====	+5 VOLT PLANE	LAYER2	1 OZ	NONE
=====	INTERNAL PLANE	LAYER3	1 OZ	NONE
=====	ANA GROUND PLANE	LAYER4	1 OZ	NONE
=====	SHIELD PLANE	LAYER5	1 OZ	NONE
=====	DIG GROUND PLANE	LAYER6	1 OZ	NONE
=====	+3.3V , -5V PLANE	LAYER7	1 OZ	NONE
=====	BOTTOM SIDE TRACE	LAYER8	1 OZ	NONE
---	SOLDER MASK	SM_BOT		
---	SILK SCREEN LEGEND	SS_BOT		

Through Holes			
Symbol	Diameter (in)	Tolerance (in)	Plated Quantity
A	0.0120	Yes	653
B	0.0250	Yes	2
C	0.0310	Yes	122
D	0.0350	Yes	20
E	0.0390	Yes	16
F	0.1250	Yes	4



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LAYER FAB	TITLE Science Board	DRAWING NUMBER 30-0029	PWB REV -
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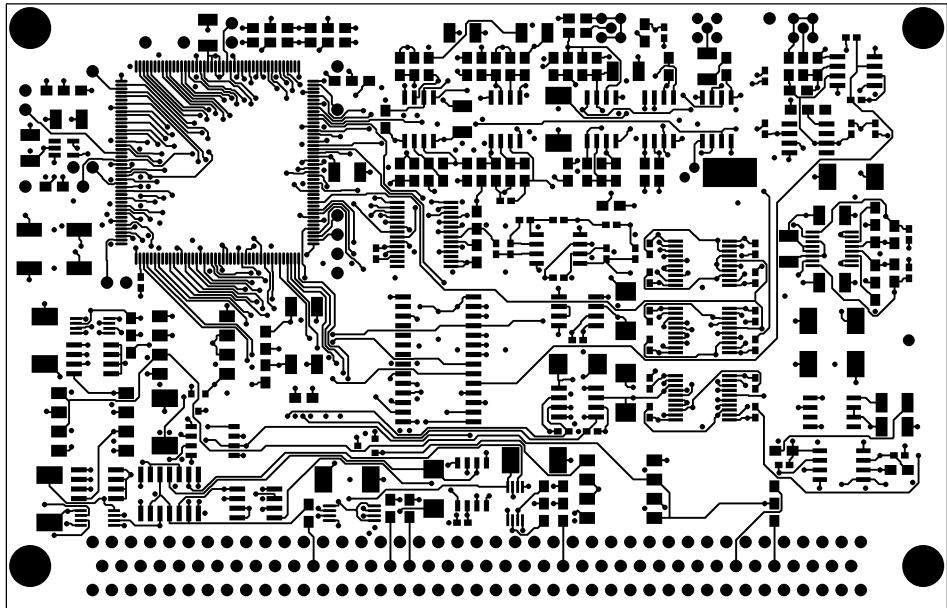
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LAYER	TITLE	DRAWING NUMBER	PWB REV
LAYER1	Science Board	30-0029	-

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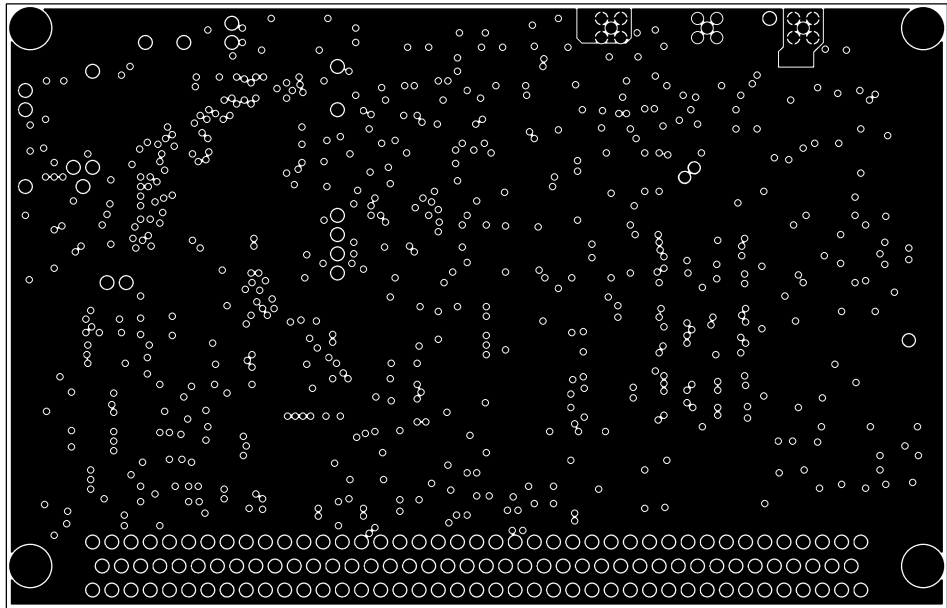
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LAYER	TITLE	DRAWING NUMBER	PWB REV
LAYER2	Science Board	30-0029	-

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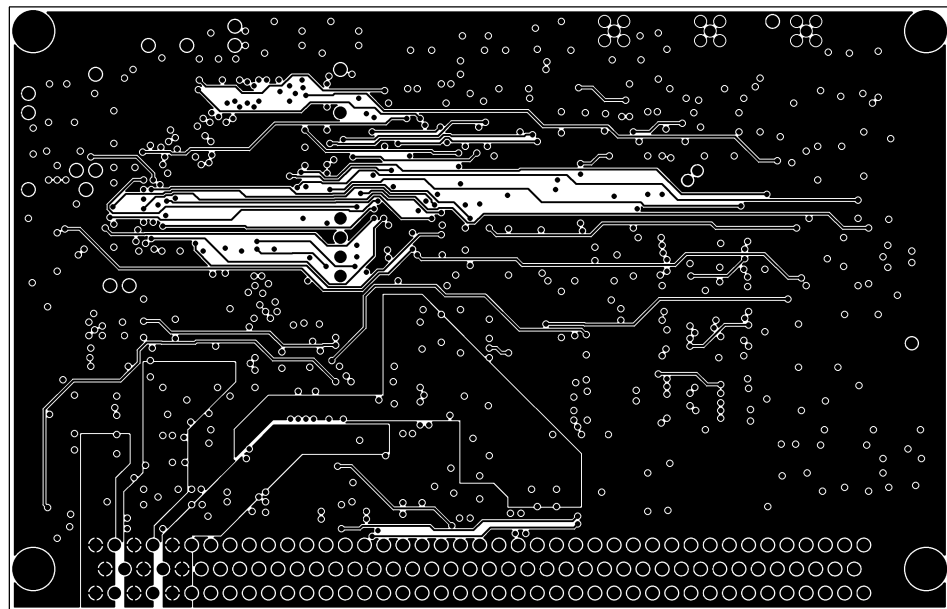
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LAYER	TITLE	DRAWING NUMBER	PWB REV
LAYER3	Science Board	30-0029	-

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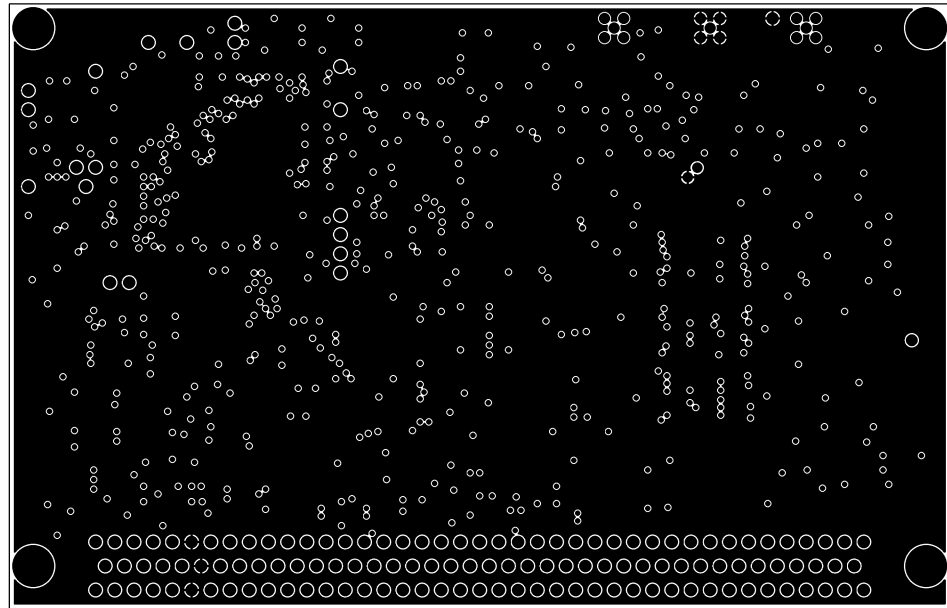
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LAYER	TITLE	DRAWING NUMBER	PWB REV
LAYER4	Science Board	30-0029	-

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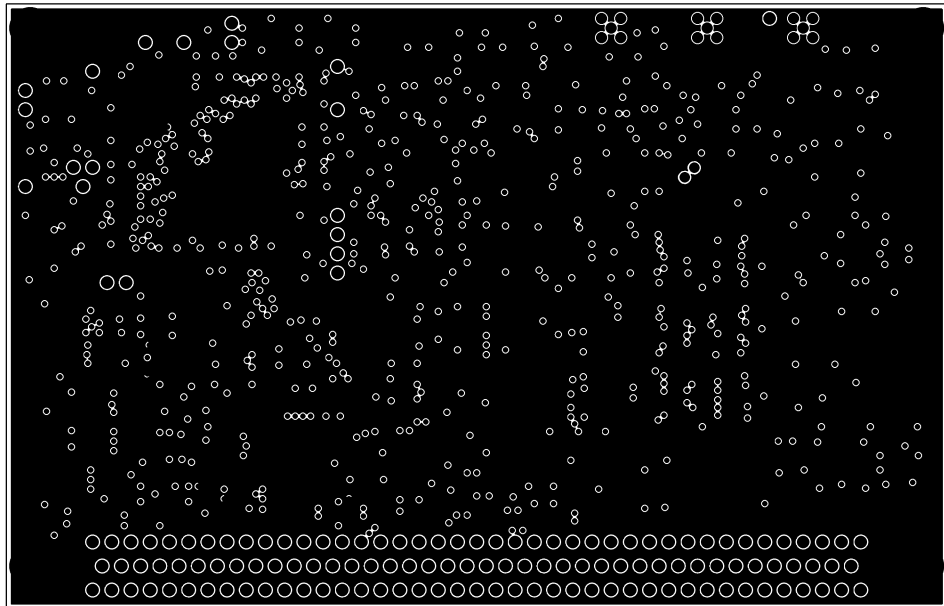
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LAYER	TITLE	DRAWING NUMBER	PWB REV
LAYER5	Science Board	30-0029	-

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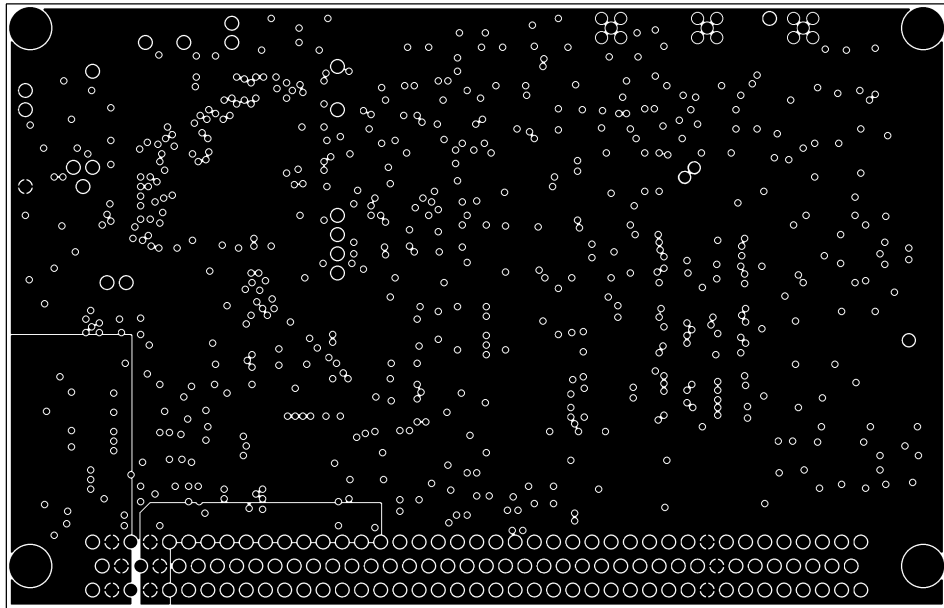
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LAYER	TITLE	DRAWING NUMBER	PWB REV
LAYER6	Science Board	30-0029	-

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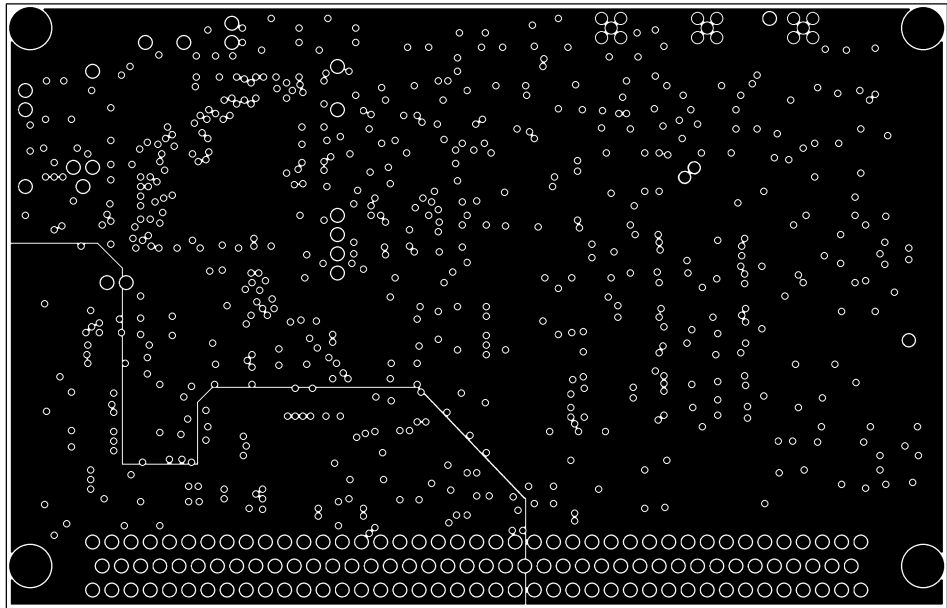
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LAYER	TITLE	DRAWING NUMBER	PWB REV
LAYER7	Science Board	30-0029	-

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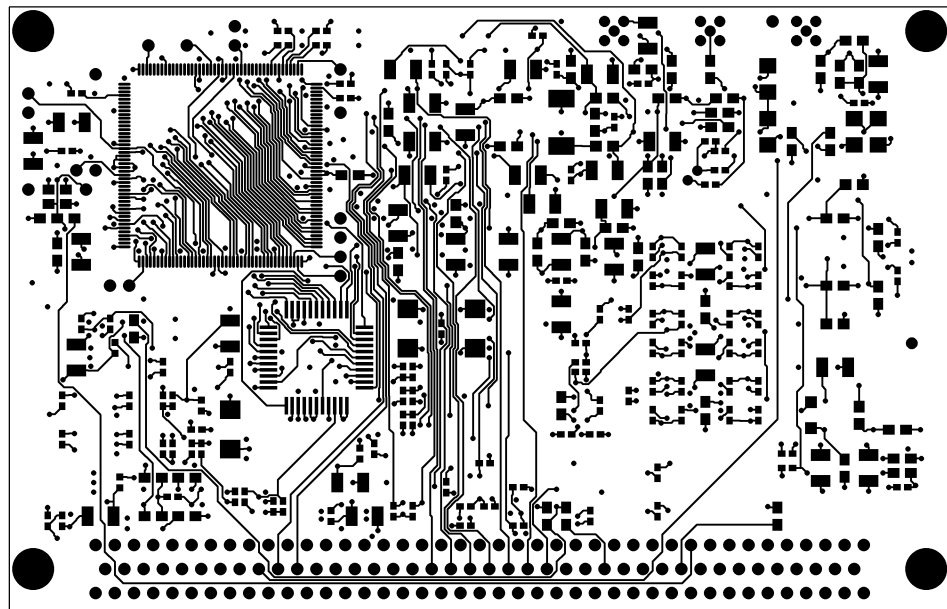
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LAYER	TITLE	DRAWING NUMBER	PWB REV
LAYERB	Science Board	30-0029	-

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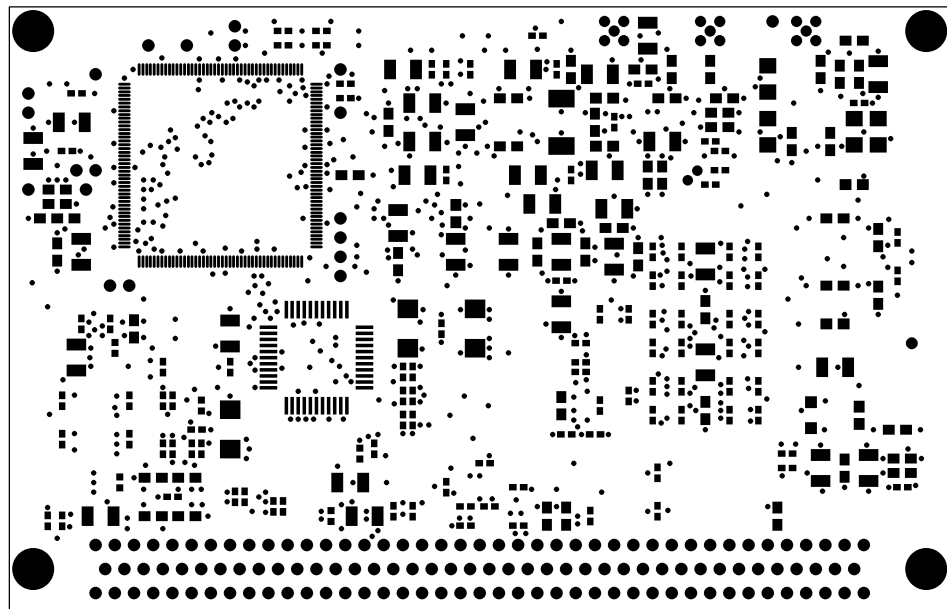
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LAYER SM_BOT	TITLE Science Board	DRAWING NUMBER 30-0029	PWB REV -
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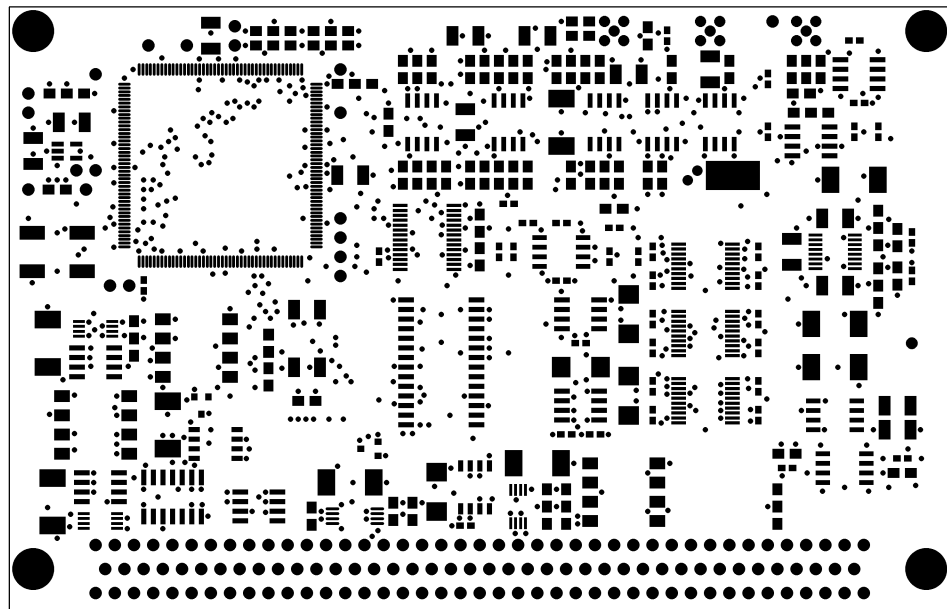
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LAYER SM_TOP	TITLE Science Board	DRAWING NUMBER 30-0029	PWB REV -
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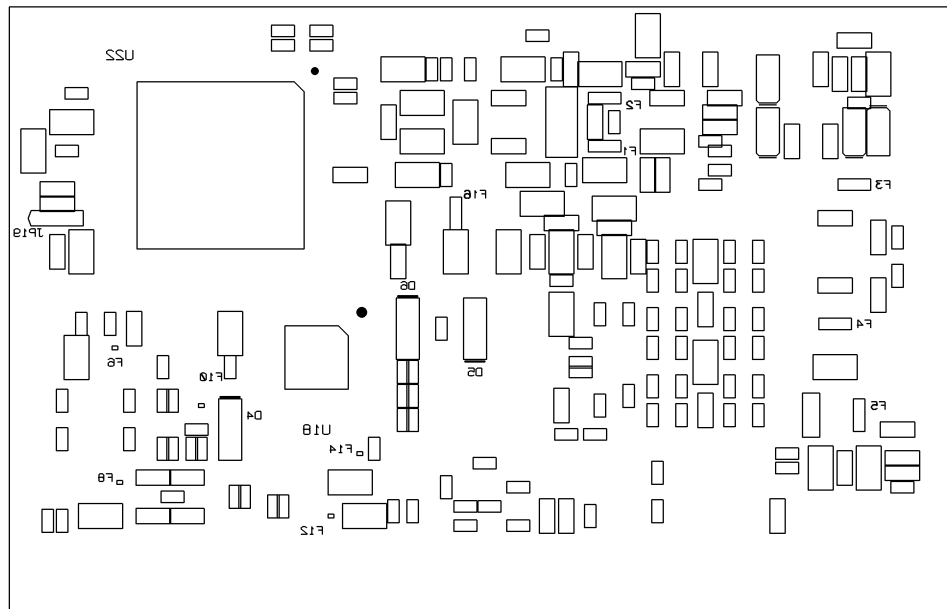
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LAYER	TITLE	DRAWING NUMBER	PWB REV
SS_BOT	Science Board	30-0029	-

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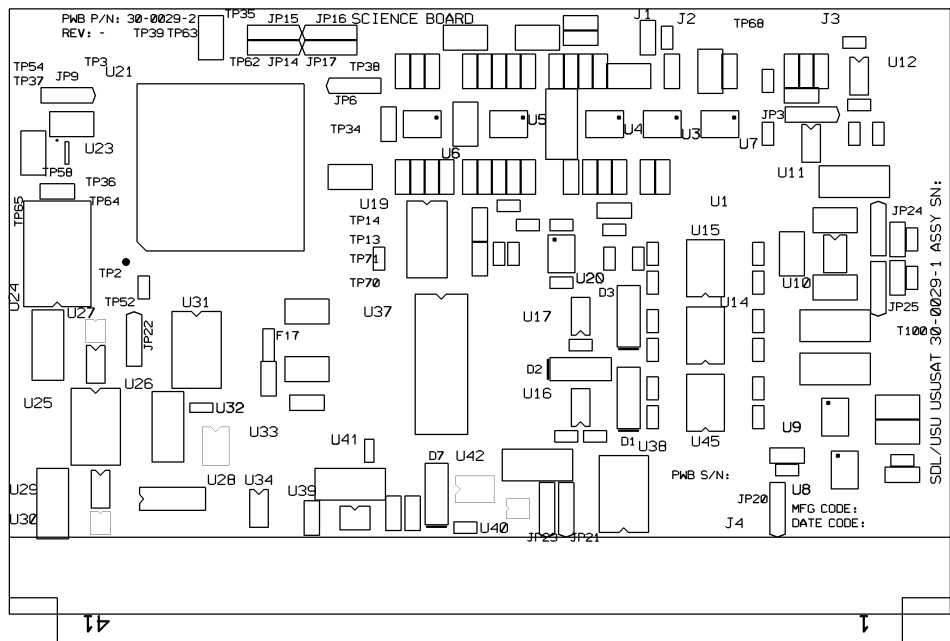
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LAYER SS_TOP	TITLE Science Board	DRAWING NUMBER 30-0029	PWB REV -
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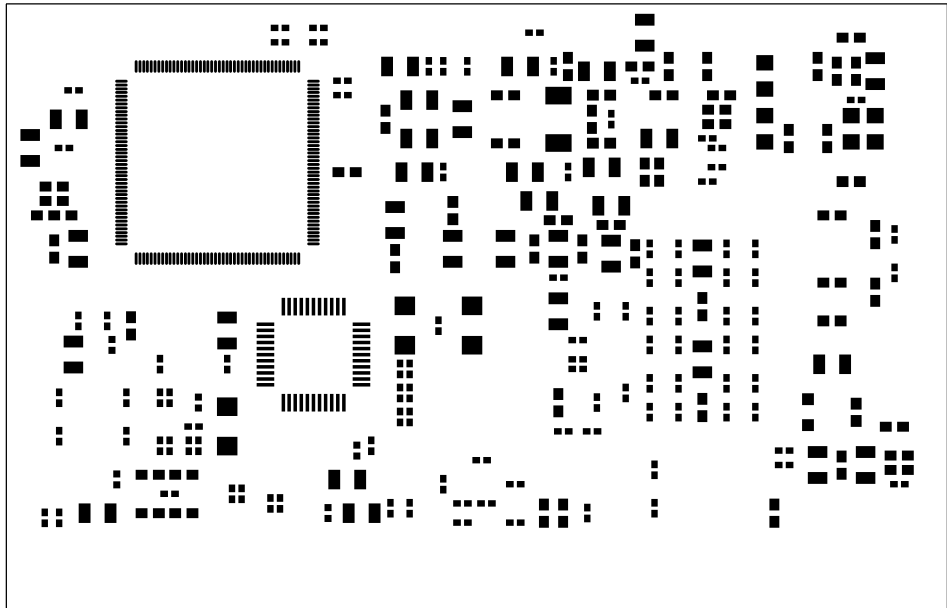
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LAYER SP_BOT	TITLE Science Board	DRAWING NUMBER 30-0029	PWB REV -
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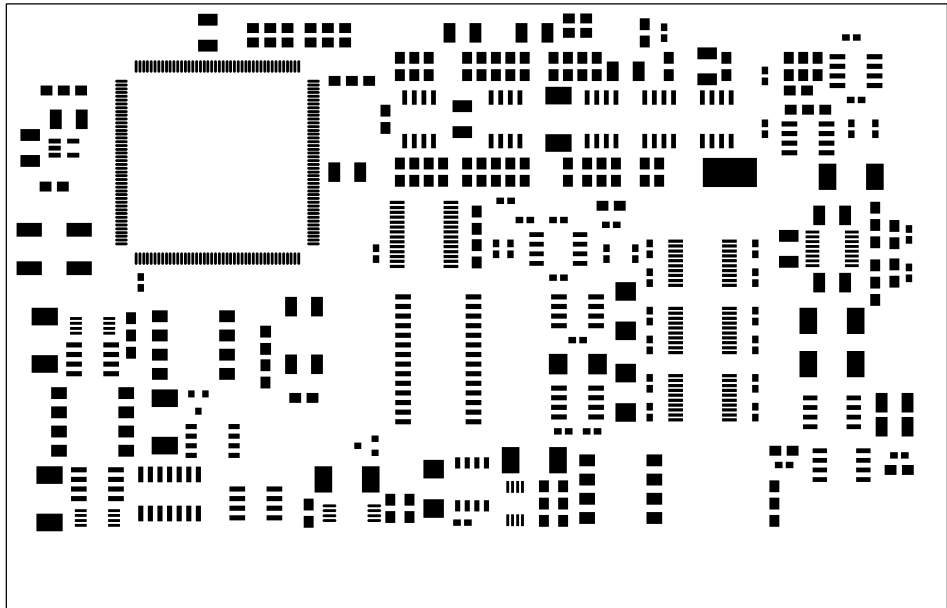
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LAYER SP_TOP	TITLE Science Board	DRAWING NUMBER 30-0029	PWB REV -
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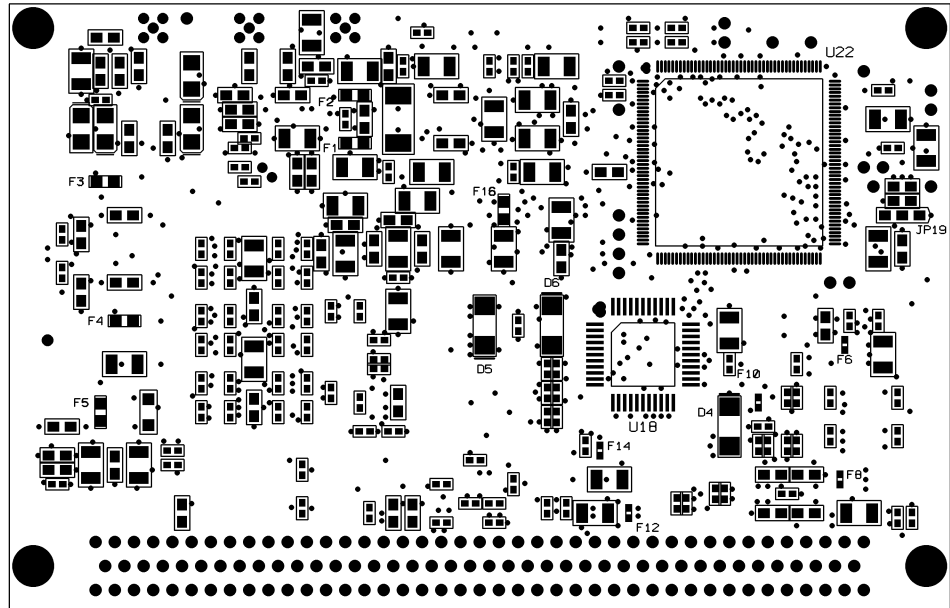
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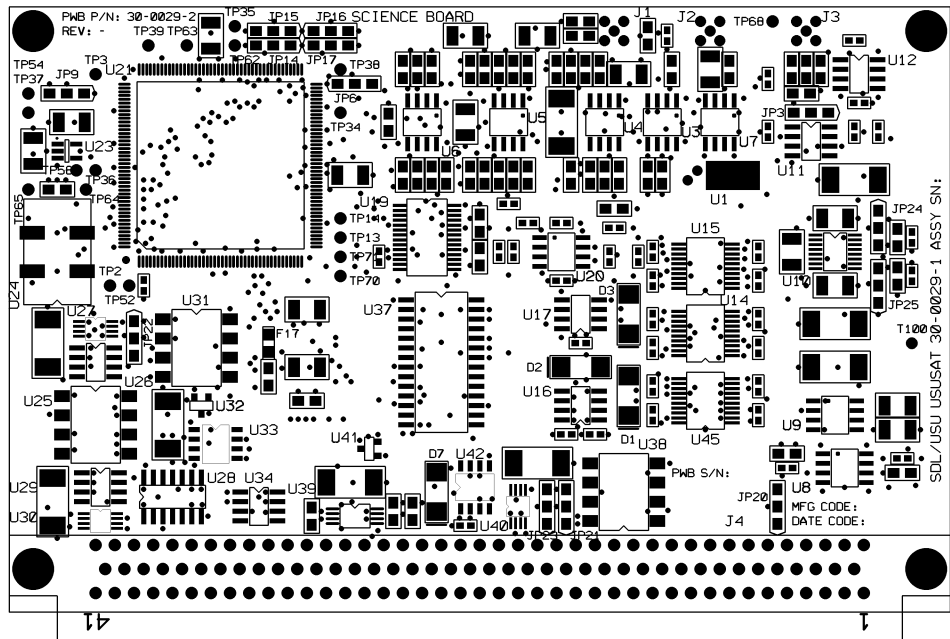
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LAYER ASSY_BOT	TITLE Science Board	DRAWING NUMBER 30-0029	PWB REV -
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LAYER ASSY_TOP	TITLE Science Board	DRAWING NUMBER 30-0029	PWB REV -
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