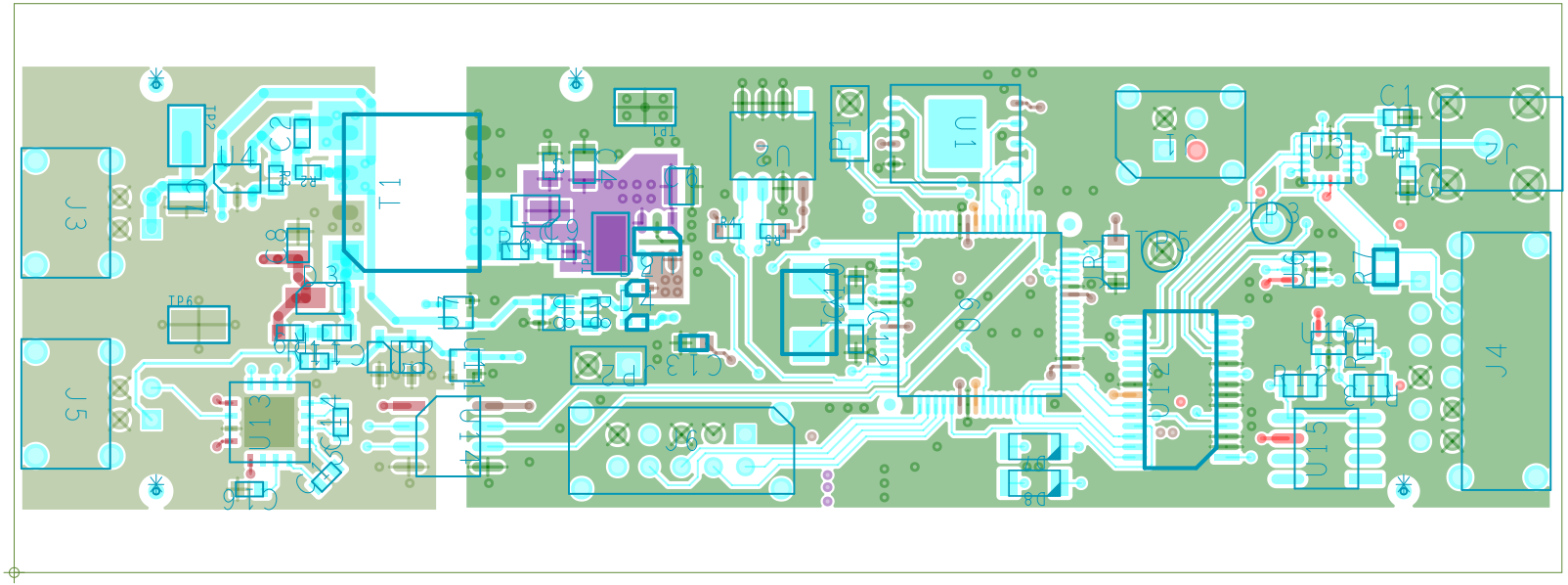
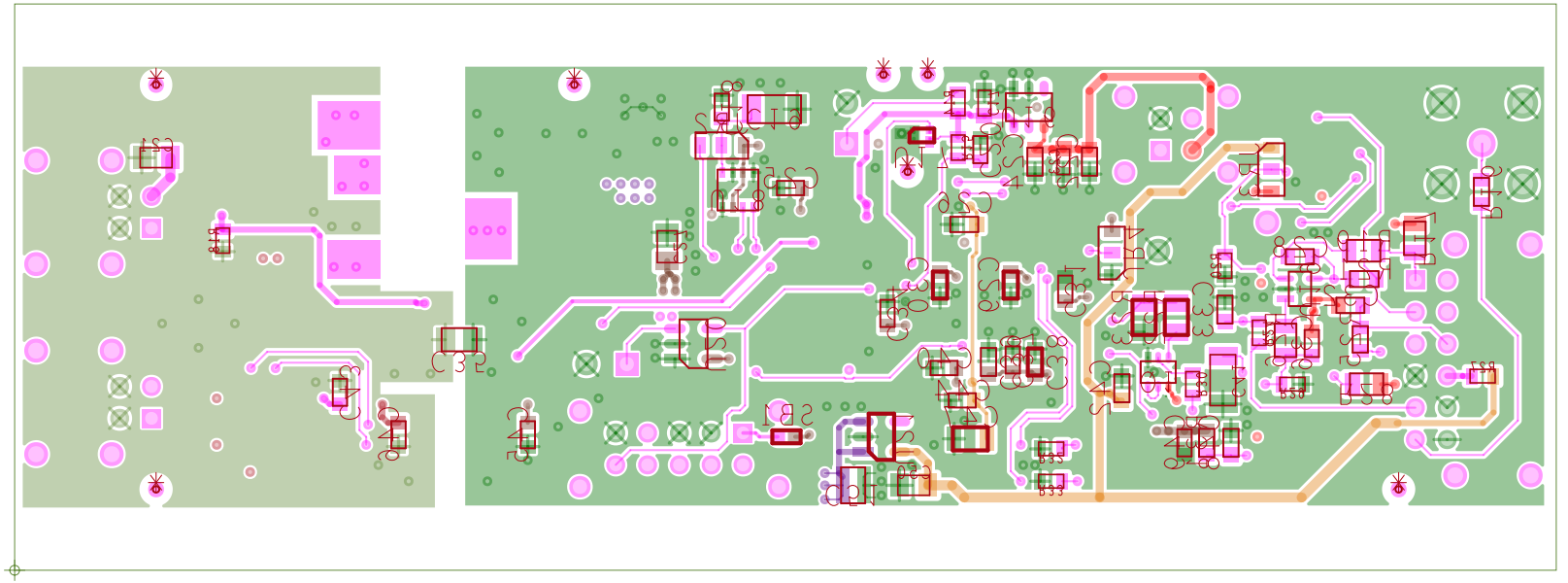
ART FILM - _cuTOP



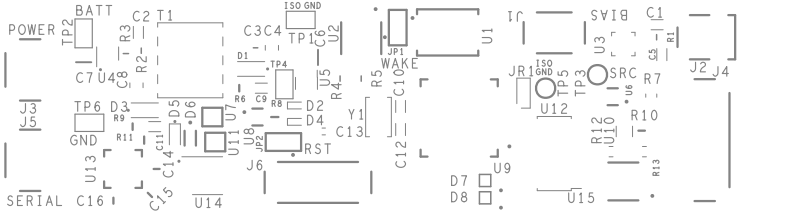
ART FILM - _cuTOP

ART FILM - _cuBOT

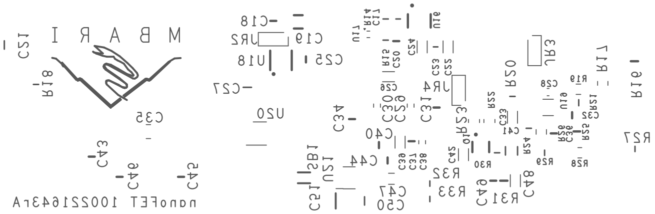


ART FILM - _cuBOT

ART FILM - _SSTOP

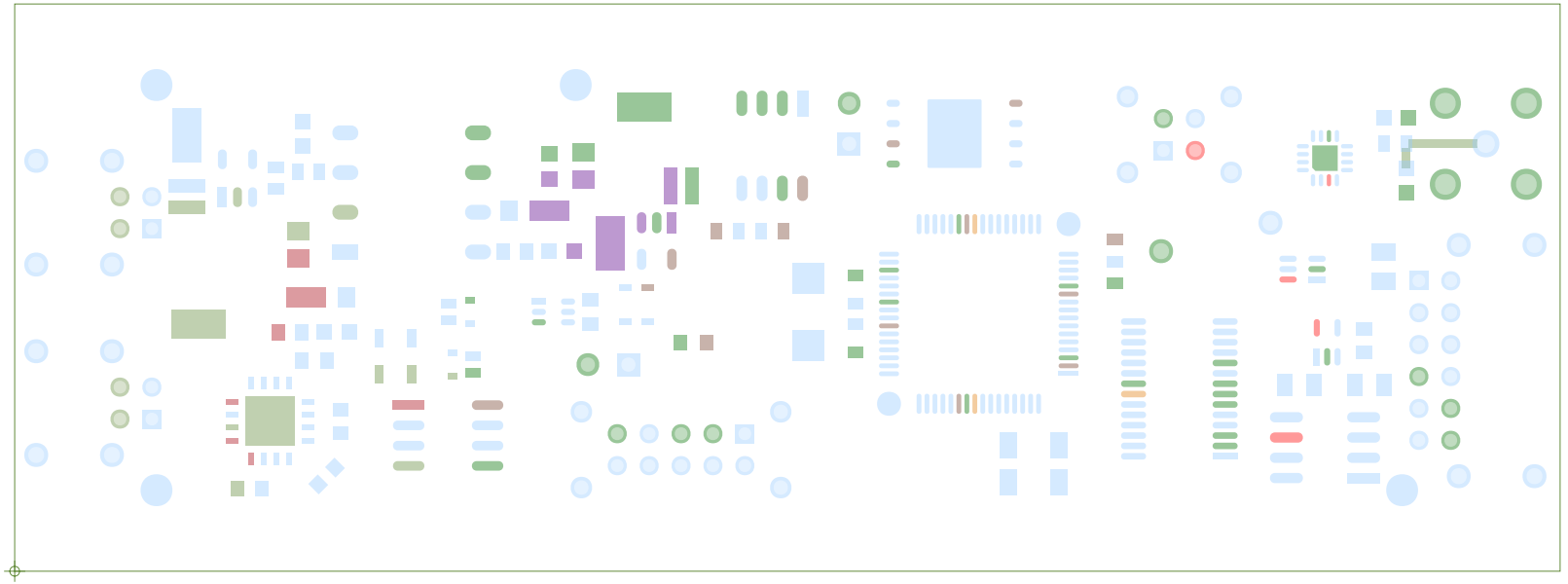


ART FILM - _SSTOP



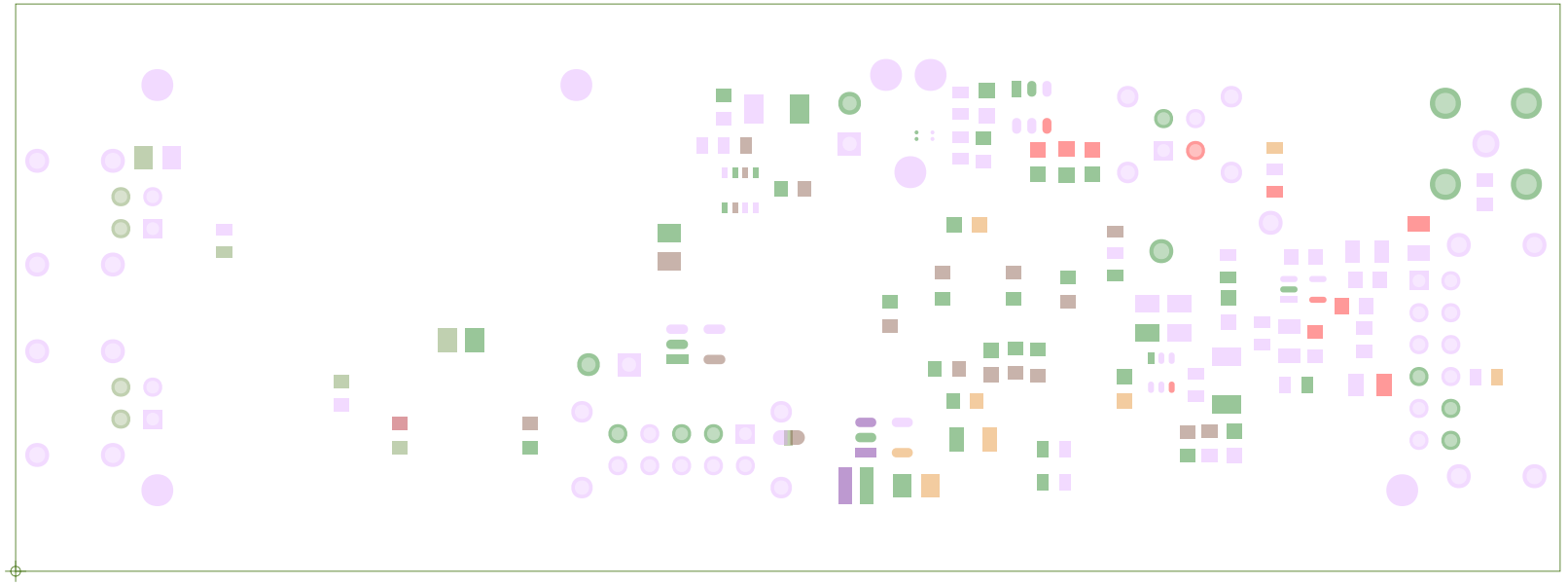
ART FILM – _SSBOT

ART FILM - _SMTOP



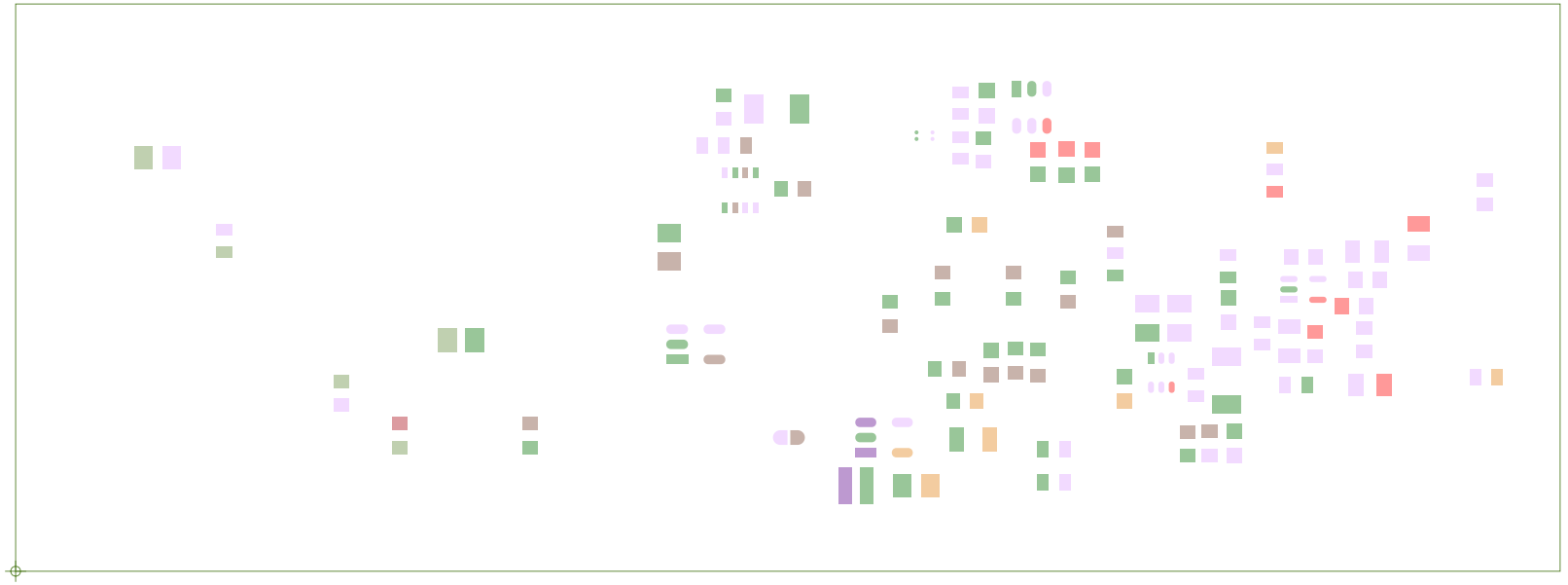
ART FILM - _SMTOP

ART FILM - _SMBOT



ART FILM - _SMBOT

ART FILM - _PMBOT

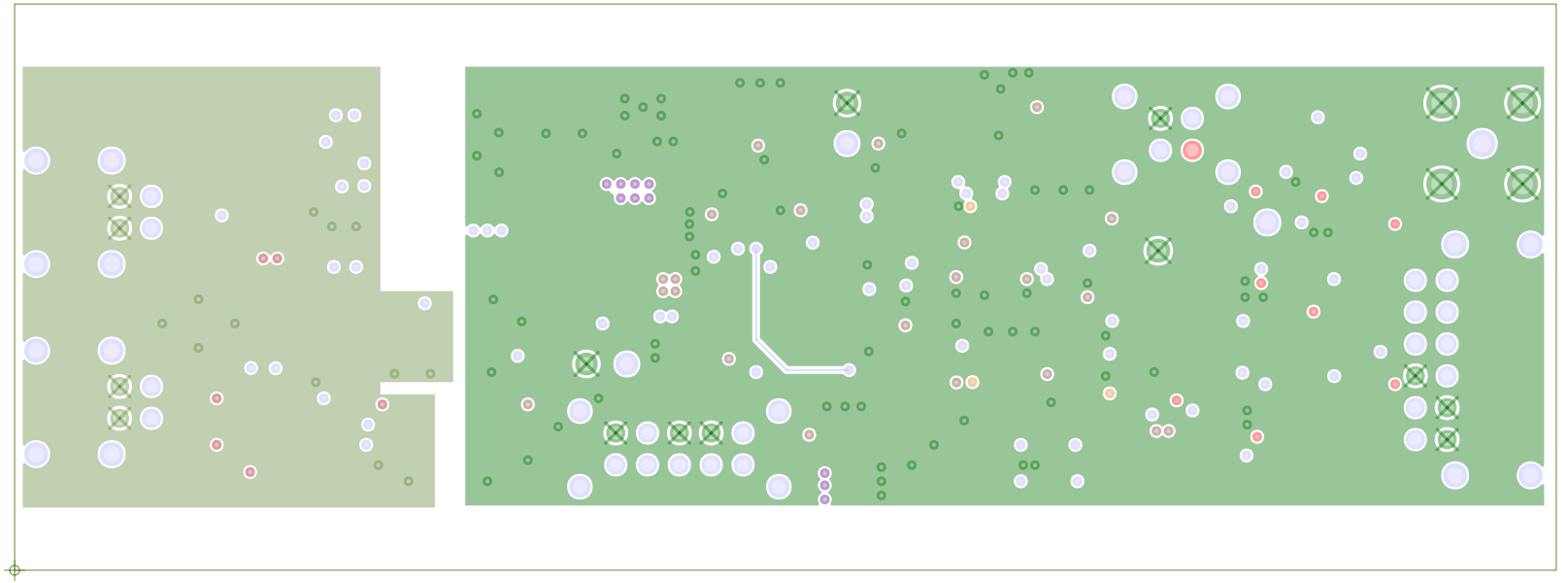


ART FILM - _PMBOT

ART FILM - _PMTOP

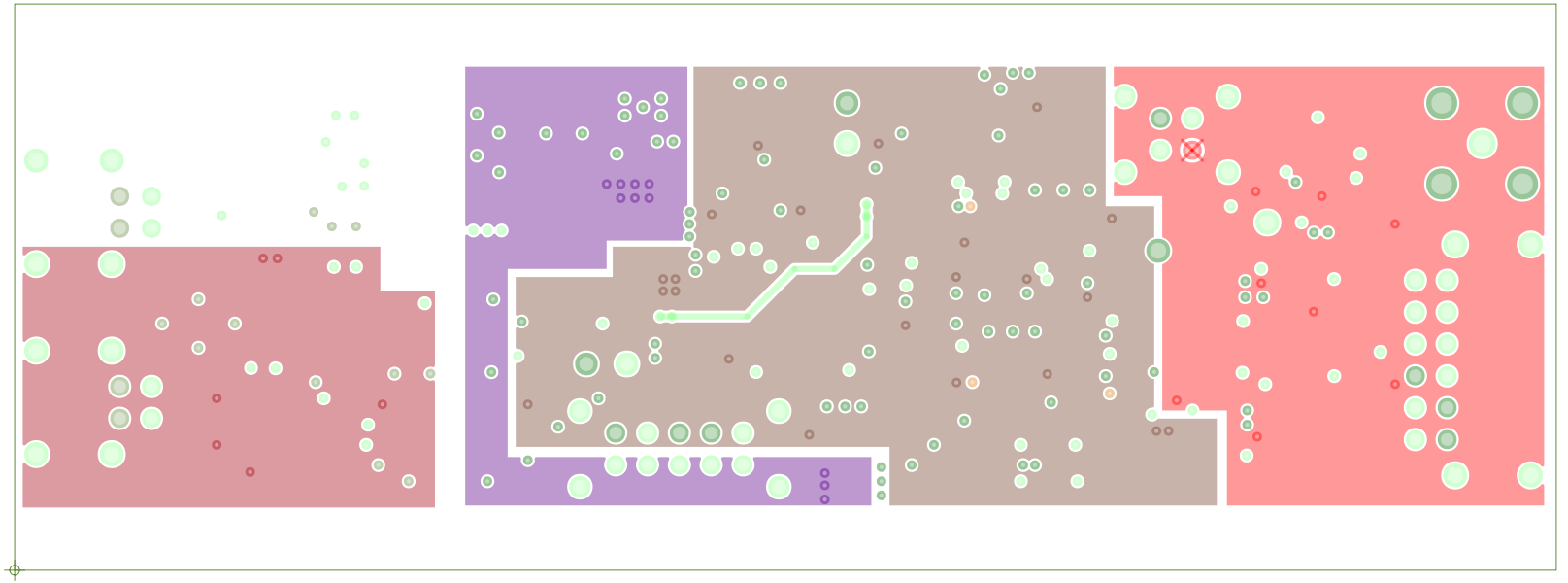
ART FILM - _PMTOP

ART FILM - _cuIN1



ART FILM - _cuIN1

ART FILM - _cuIN2



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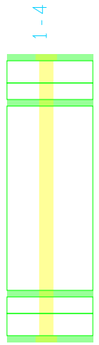
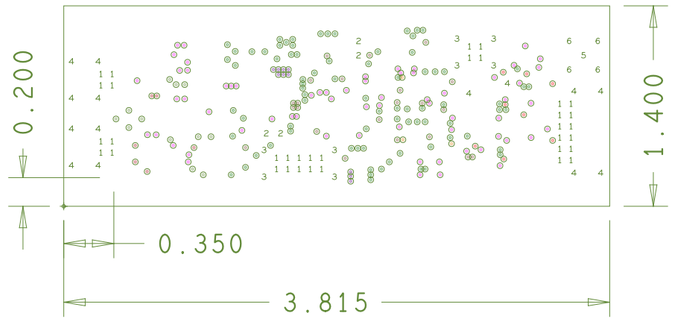


L1 TOP CONDUCTOR - 1OZ COPPER 1.4 MIL
* DIELECTRIC - FR-4 4.7 MIL
* DIELECTRIC - FR-4 3.5 MIL
L2 IN1 CONDUCTOR - 1OZ_COPPER 1.4 MIL

* DIELECTRIC - FR-4 39 MIL

L3 IN2 CONDUCTOR - 1OZ_COPPER 1.4 MIL
* DIELECTRIC - FR-4 3.5 MIL
* DIELECTRIC - FR-4 4.7 MIL
L4 BOTTOM CONDUCTOR - 1OZ_COPPER 1.4 MIL

DESIGN CROSS SECTION CHART
TOTAL THICKNESS 61 MIL



CLASS II FABRICATION NOTES: (UNLESS OTHERWISE SPECIFIED)

1. BOARDS SHALL BE 100% NET LIST TESTED FOR OPENS AND SHORTS PER PROVIDED IPC-D-356 NETLIST.
2. THIS BOARD SHALL BE MANUFACTURED IN ACCORDANCE WITH IPC-6012A CLASS II SPECIFICATIONS AND MEET IPC-600 CLASS II ACCEPTABILITY STANDARDS.
3. MATERIAL:
   a. FR4 PER IPC 4101B/24 /26, OR /28.
   b. SIGNAL LAYERS TO BE 1 OZ. COPPER.
   c. PLANE LAYERS TO BE 1 OZ. COPPER.
   d. OVERALL THICKNESS TO BE 0.062" +/- 0.006"
4. LEGEND:
   a. WHITE NON-CONDUCTIVE EPOXY INK BOTH SIDES.
5. SOLDERMASK:
   a. APPLY LIQUID PHOTO-IMAGABLE (LPI) SOLDER MASK OVER BARE COPPER PER IPC-SM-840 CLASS H, COLOR MATTE BLUE, BOTH SIDES.
6. PLATING FINISH:
   a. HOT AIR SOLDER LEVELING (HASL) SN63A SnPb SOLDER.
   b. IMMERSION SILVER IAg.
7. PROCESS ALLOWANCES:
   a. MAXIMUM BOW AND TWIST SHALL NOT EXCEED .007" PER INCH
   b. HOLE DIMENSIONS APPLY AFTER PLATING.
   c. ALL HOLES SHALL BE LOCATED WITHIN 0.003" DIAMETER OF TRUE POSITION.
   d. LAYER TO LAYER REGISTRATION SHALL BE WITHIN 0.003".
   e. CONDUCTOR WIDTHS AND SPACING SHALL BE WITHIN +/- 0.002".
   f. REMOVE ALL BURRS AND BREAK SHARP EDGES 0/015" MAX.
   g. CUT OUTSIDE OF 0.001" BOARD OUTLINE.

DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	FINISHED_SIZE	PLATED	QTY
○	10.0	PLATED	204
1	31.5	PLATED	34
2	35.0	PLATED	4
3	35.4	PLATED	8
4	39.4	PLATED	14
5	44.5	PLATED	1
6	51.2	PLATED	4

UNLESS OTHERWISE SPECIFIED	DESIGNED BY:S.Jensen	100221643_nanoFET			
DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS +/- 0.02" 3 PL DECIMALS +/- 0.005" ANGLES +/1 1 Degree FRACTIONS +	LAYOUT BY:J.Rosal				
	CHECKED IN BY:jrosal	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT RD MOSS LANDING, CA 95039			
	CID:1/4/2022 7:14:55 AM				
	SYSTEM:				
	SUBSYSTEM:	DRAWING NUMBER: 100221643	RELEASE: A	VERSION: 10	
PROJECT NAME:Coastal BioGeoChemical Sensing		STATUS: Active	SCALE 1-1	SIZE: B	SHEET 1 OF 1