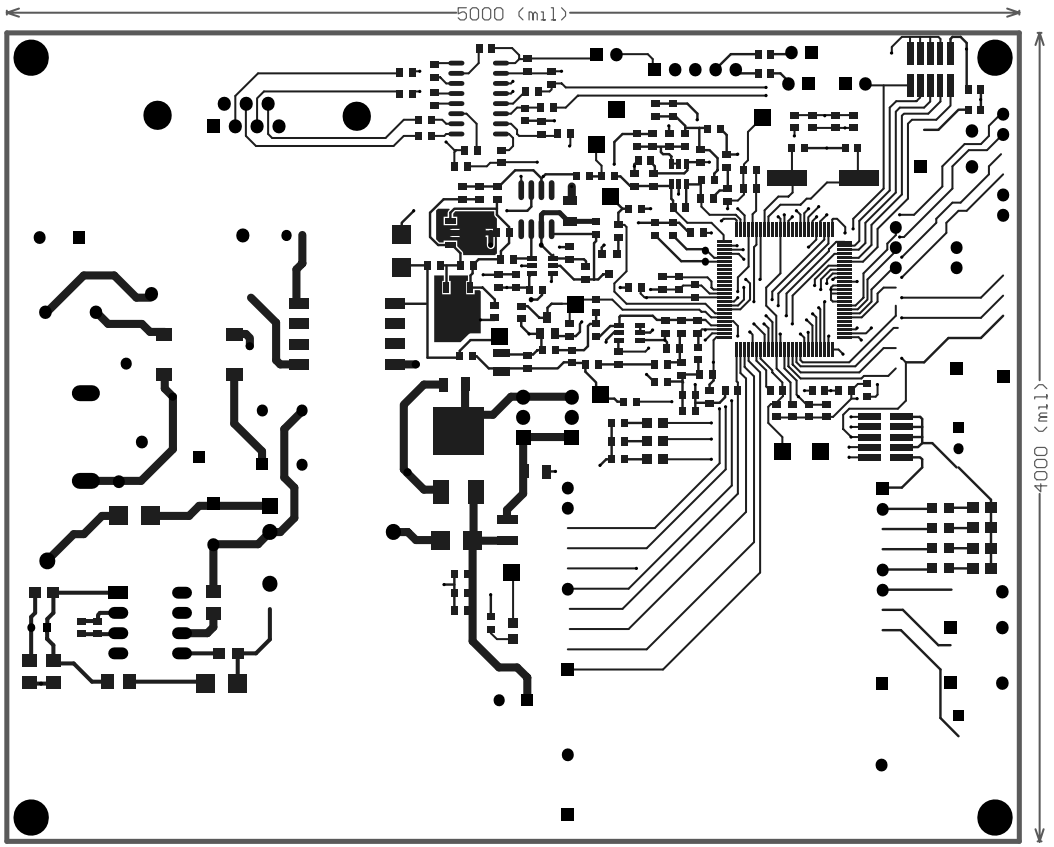
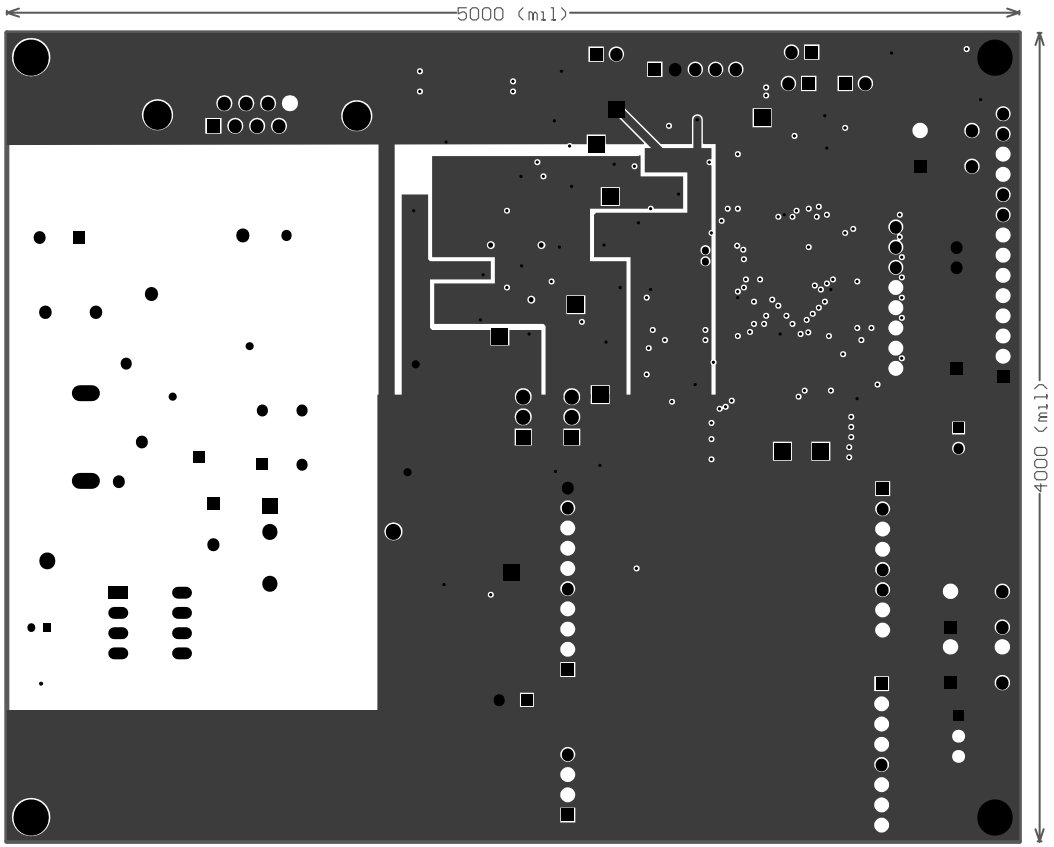


Top Layer

Mechanical 1

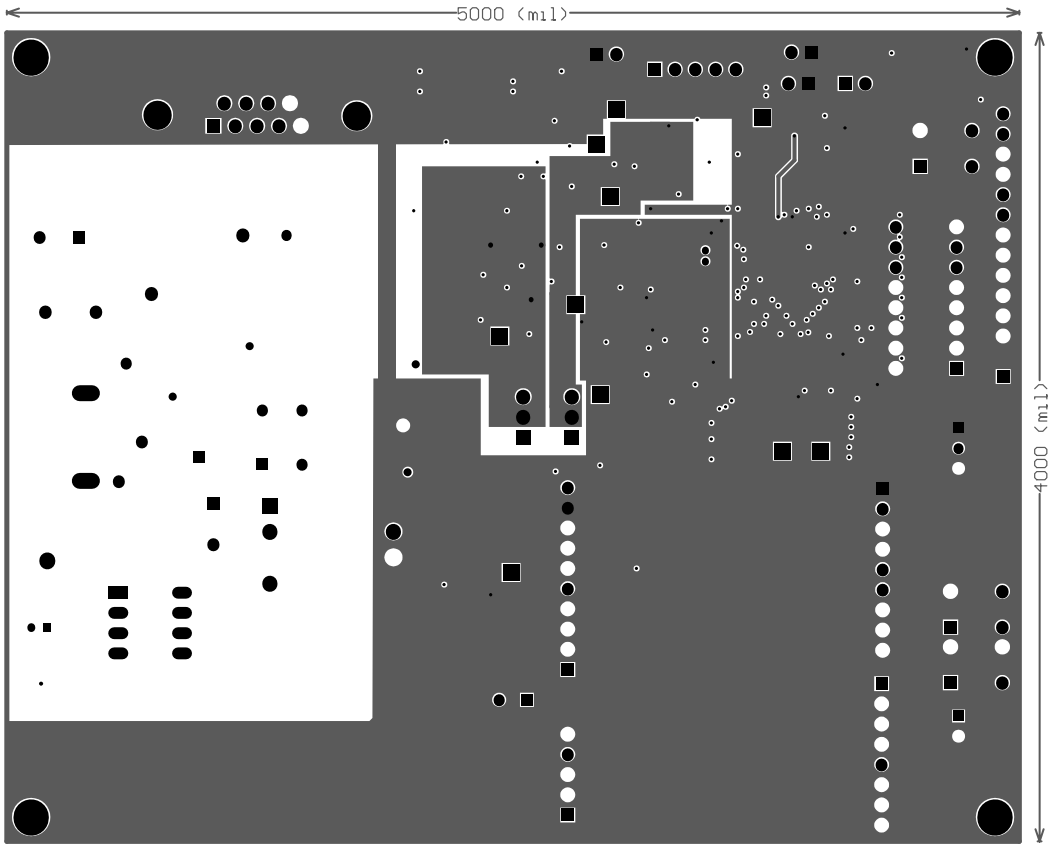
Multi-Layer



Mechanical 1

Ground Layer

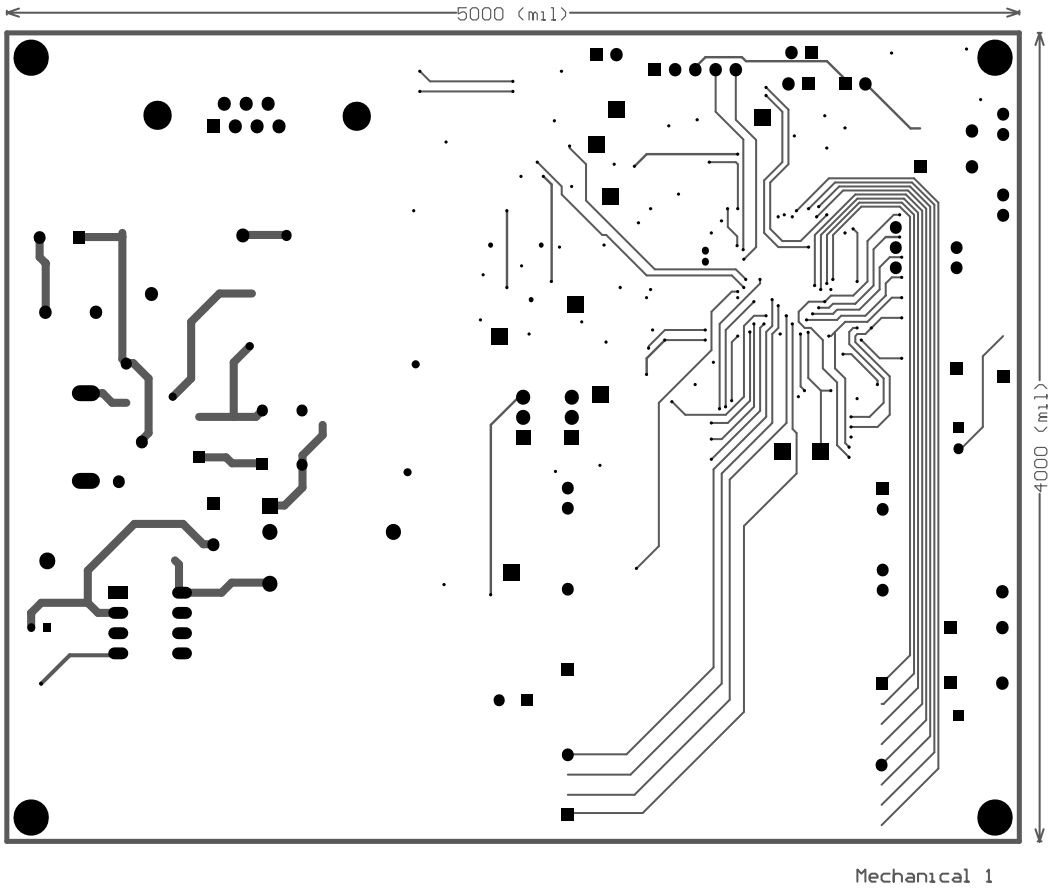
Multi-Layer



Mechanical 1

Power Layer

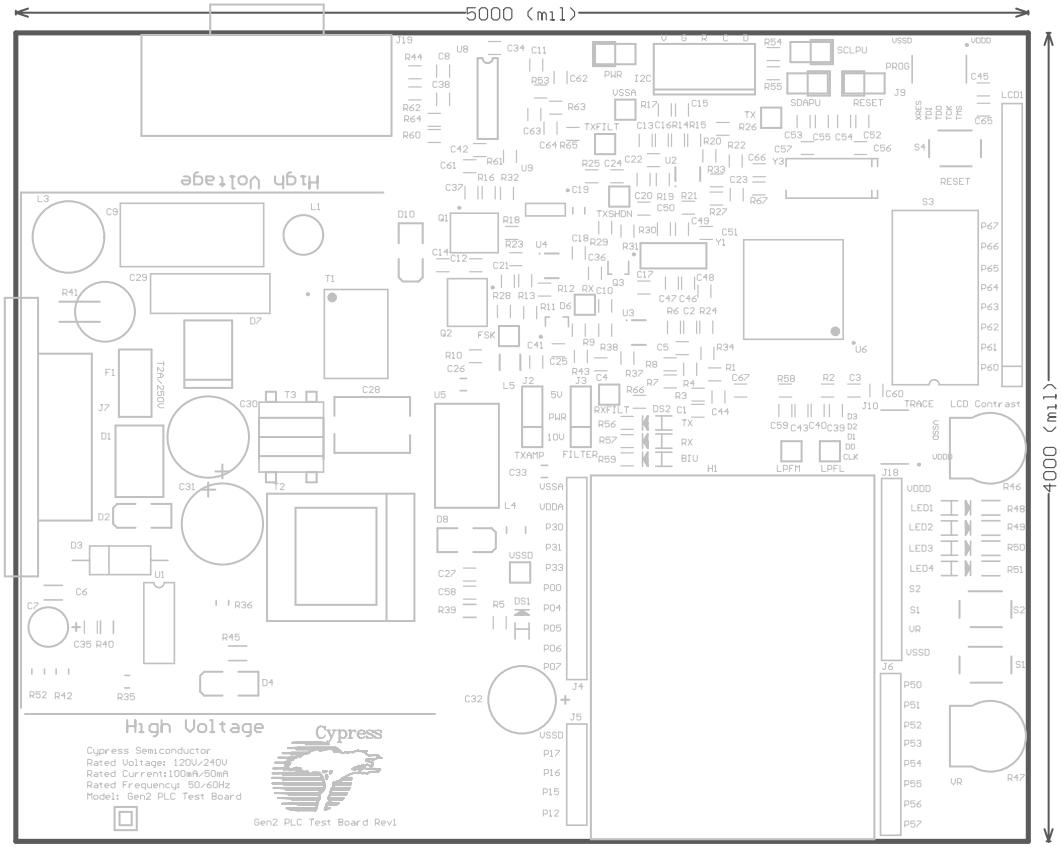
Multi-Layer



Mechanical 1

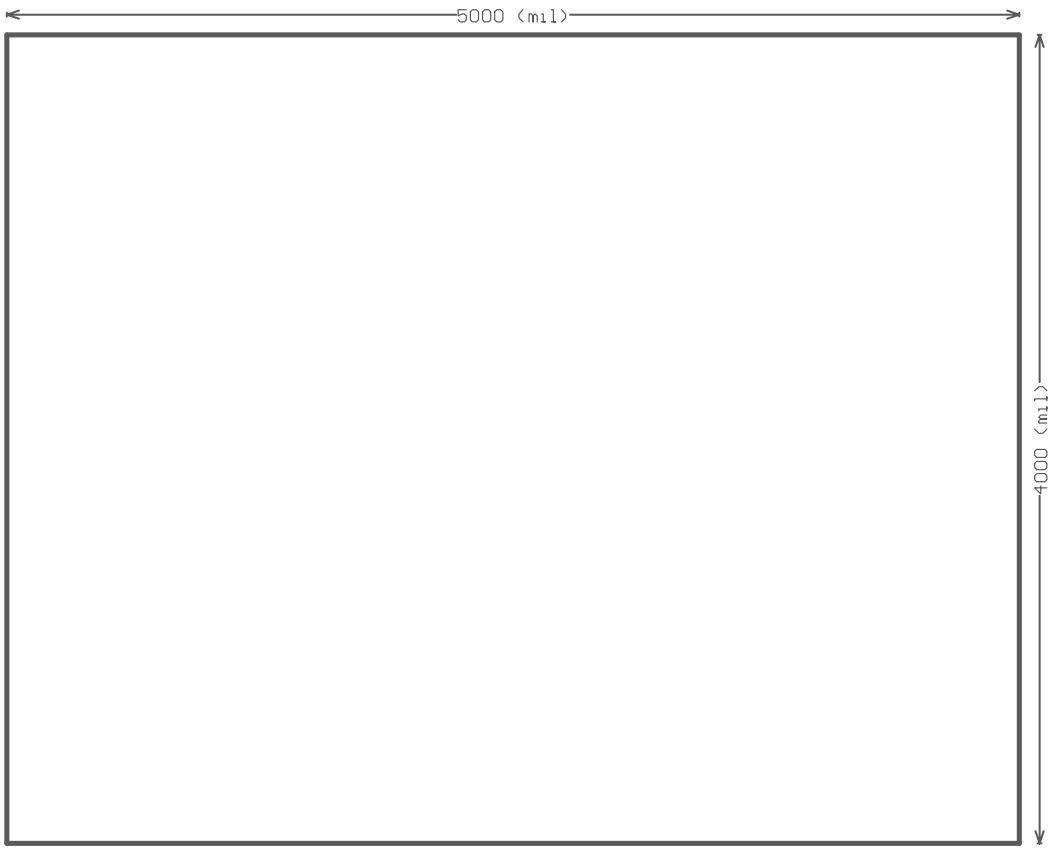
Bottom Layer

Multi-Layer



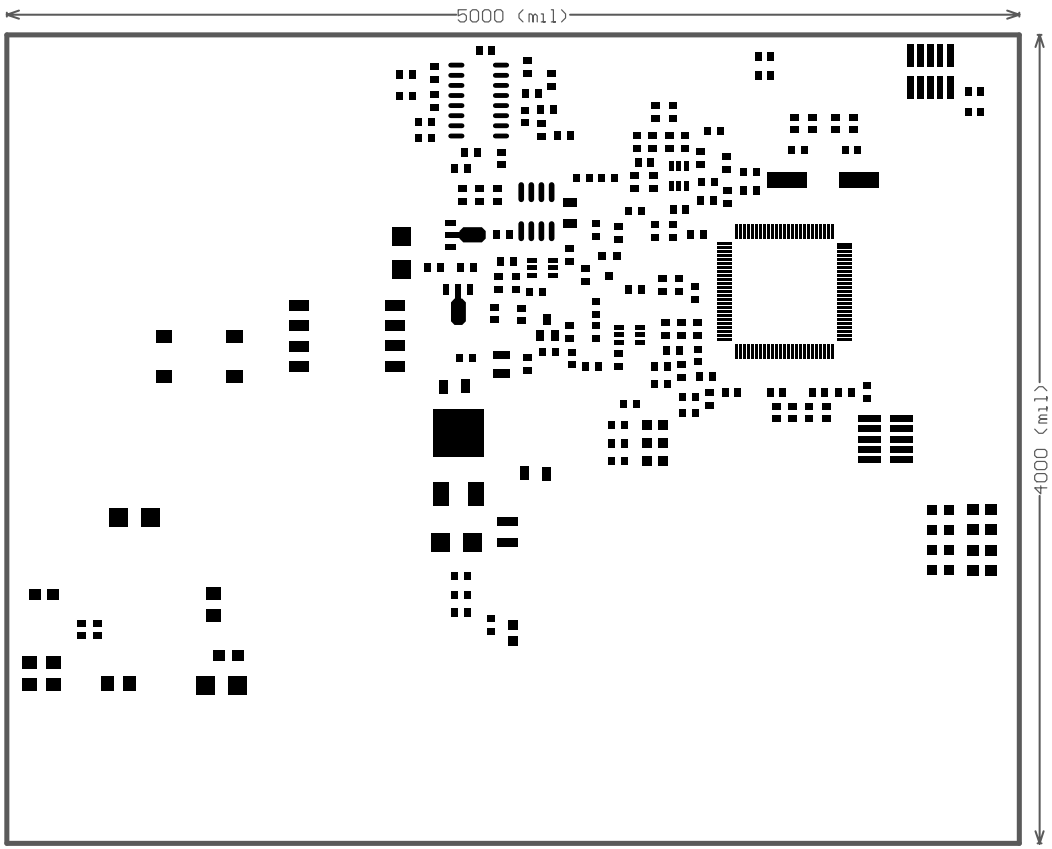
Top Overlay

Mechanical 1



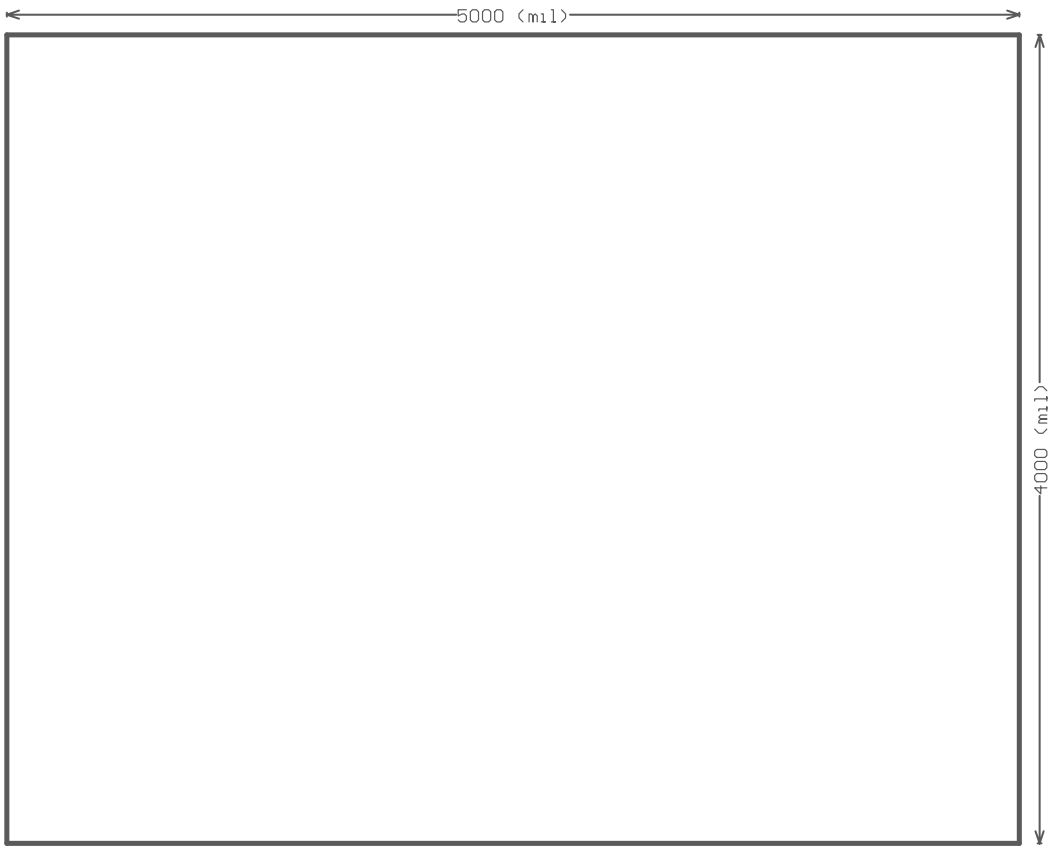
Mechanical 1

Bottom Overlay

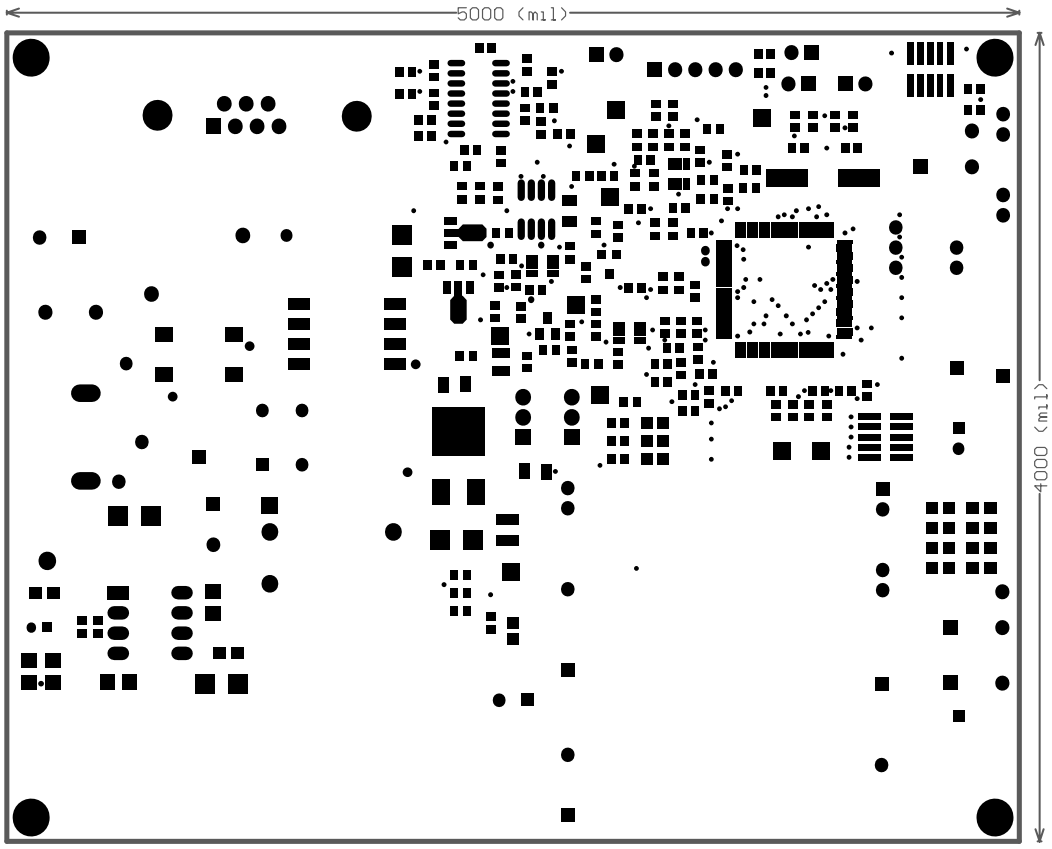


Top Paste

Mechanical 1

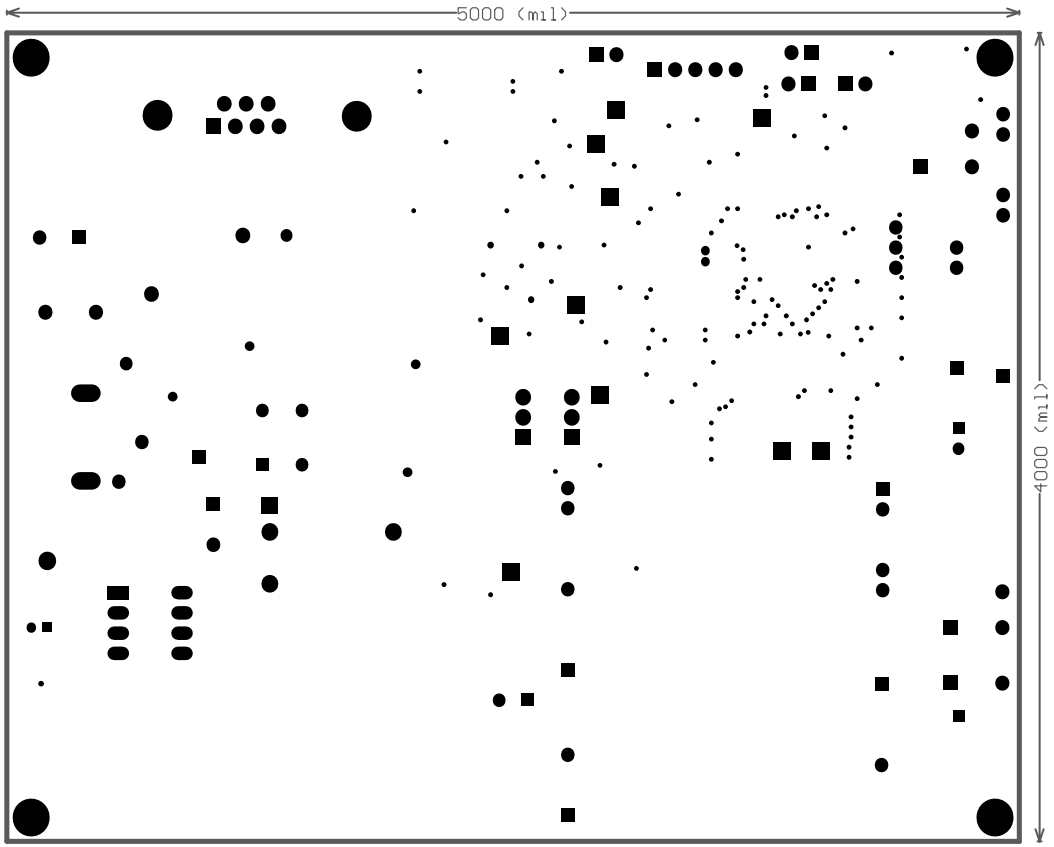


Bottom Paste



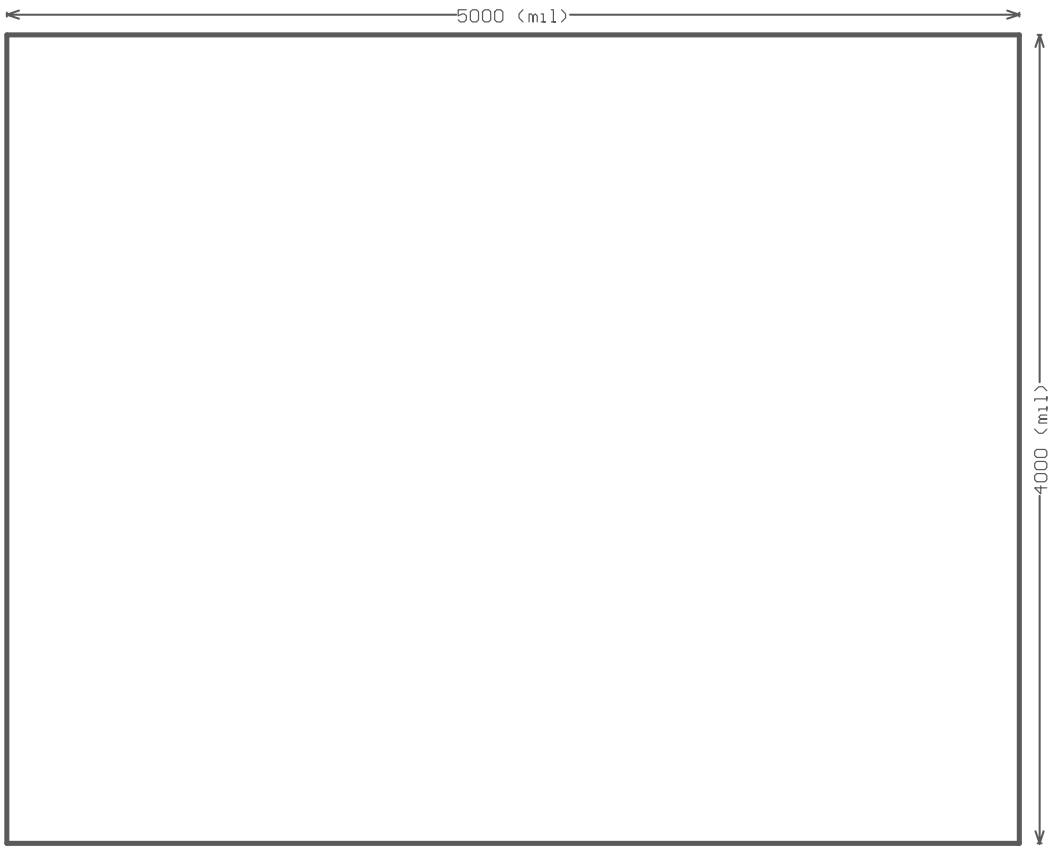
Mechanical 1

Top Solder

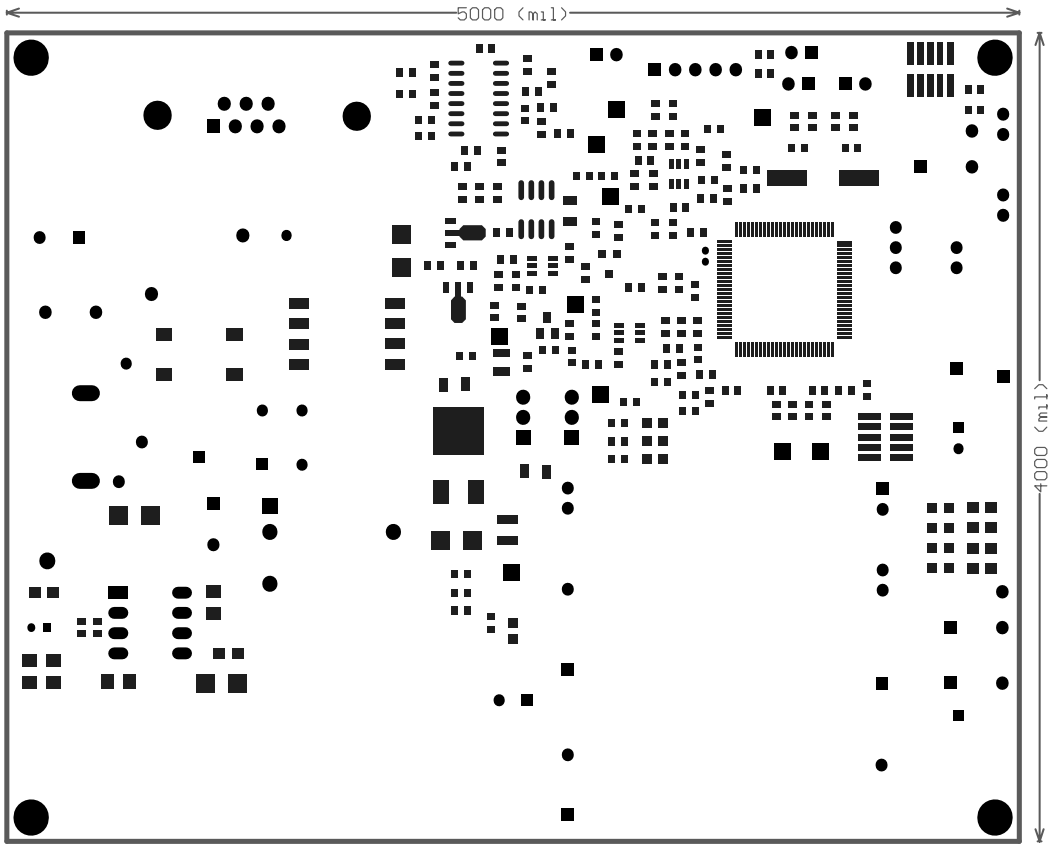


Mechanical 1

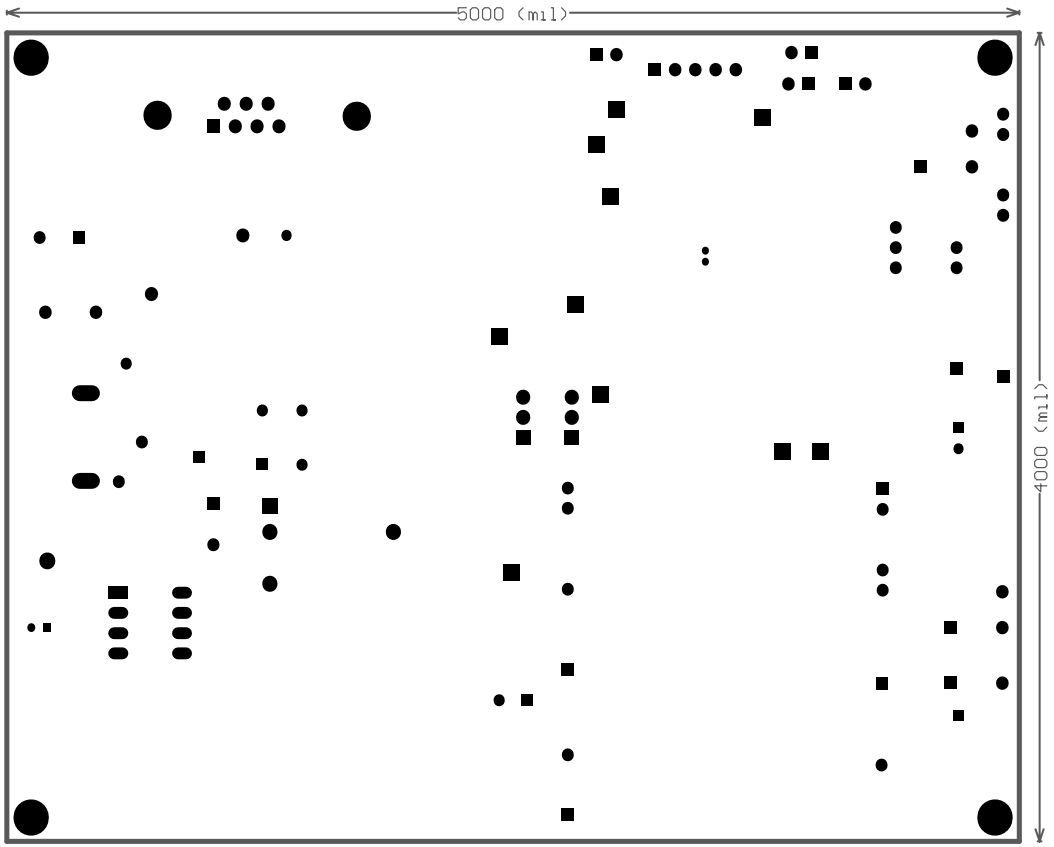
Bottom Solder



Mechanical 1

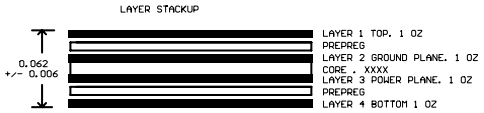


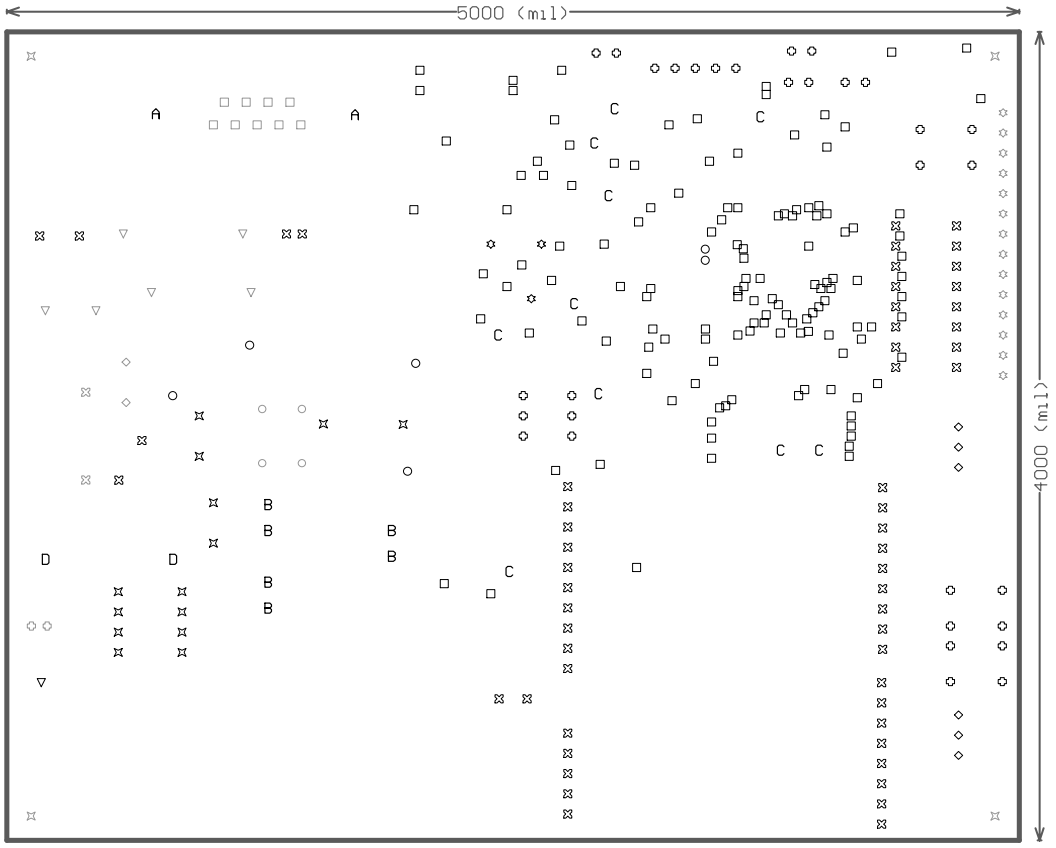
Mechanical 1



Mechanical 1

FABRICATION DRAWING
BOARD: GEN2 PLC
REVISION: 1
CYPRESS SEMICONDUCTOR





Mechanical 1

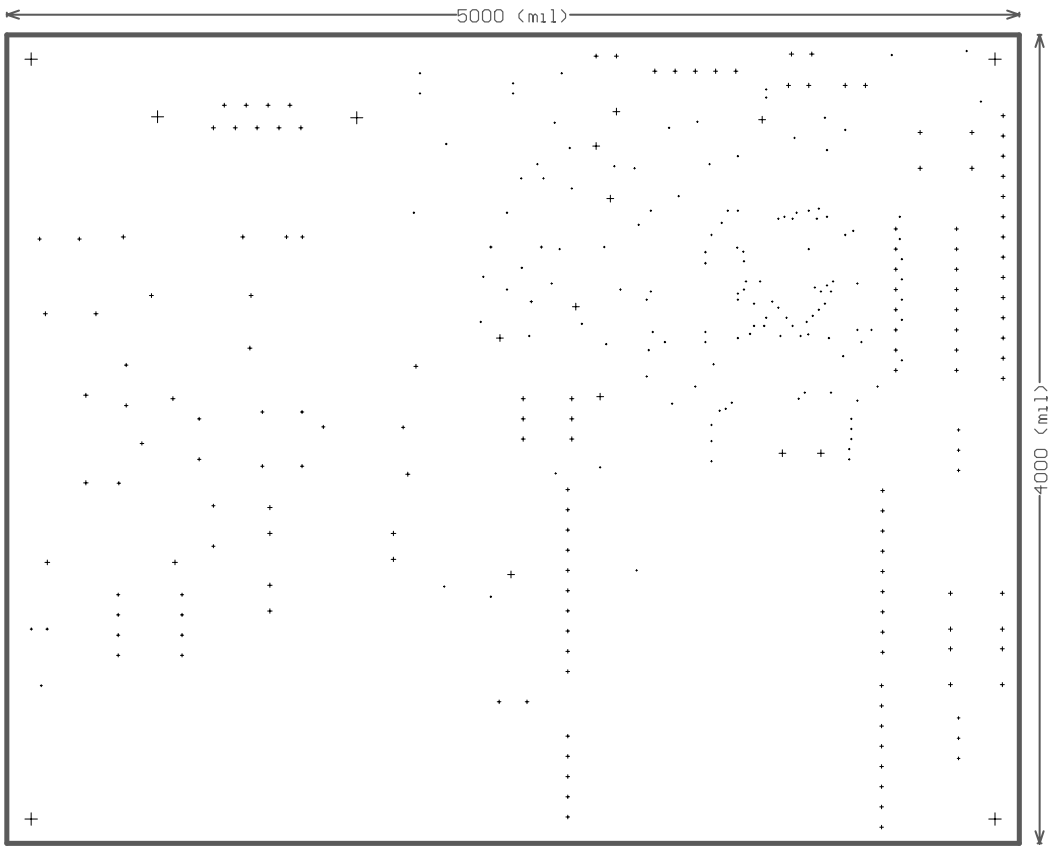
Drill Drawing

NOTES: UNLESS OTHERWISE SPECIFIED

1. RoHS COMPLIANT CERTIFICATION OR MATERIAL DECLARATION REQUIRED
2. MATERIAL:
   A. IS1410 OR EQUIVALENT. MATERIAL MUST CONFORM TO UL94V-0.
   B. USE HTE COPPER. AS SPECIFIED IN THE CROSS SECTION DIAGRAM
   C. OVERALL METAL TO METAL THICKNESS AS SPECIFIED IN THE CROSS SECTION
3. DRILLING:
   A. DIAMETERS IN DRILL TABLE ARE FINISHED HOLE SIZES +/- 0.003 tol. UNLESS OTHERWISE SPECIFIED IN DRILL TABLE.
   B. TEARDROP ALLOWED ON ENTRY OF VIA ON EVERY TRACE LAYER
4. PLATING
   COPPER PLATING IN THRU-HOLES .001 min.
5. MARKING:
   A. SILKSCREEN IN WHITE NON-CONDUCTIVE EPOXY INK ON PRIMARY SIDE OF THE BOARD OR BOTH SIDES IF APPLICABLE.
   B. FABRICATOR TO PLACE DATE CODE AND LOGO ON SECONDARY SIDE IN ETCH (PREFERRED) OR SILKSCREEN.
6. FINAL FABRICATION:
   A. SOLDERMASK PRIMARY AND SECONDARY SIDE OF BOARD USING LIQUID PHOTOIMAGABLE MASK MATERIAL OVER BARE COPPER. PER IPC-SM-840. MASK ARTWORKS PROVIDED ARE 1:1. SOLDERMASK COLOR **BLUE**
7. FINISH:
   A. SHALL BE ELECTROLYTIC NICKEL/GOLD. ELECTROLESS NICKEK / IMMERSION GOLD. (ENIG)
   B. NICKEL THICKNESS: 100-200 MICROINCHES.
   C. GOLD THICKNESS: 3-10 MICROINCHES.
8. BOARDS SHALL BE PURCHASED FROM UL RECOGNIZED VENDORS ONLY AND SHALL BE MARKED IN COPPER ON SECONDARY SIDE OF BOARD WITH VENDORS UL IDENT. FLAMMABILITY RATING (94-V0). DATE CODE (WWYY). AND RoHS COMPLIANT SYMBOL.
9. MANUFACTURE BOARD TO BE IN ACCORDANCE WITH PERFORMANCE STANDARD IPC-6011/6012 CLASS 2 BOARD TO BE INSPECTED PER IPC-600-A CLASS 2.
10. MAXIMUM WRAP OR TWIST SHALL NOT EXCEED 0.010 in/in.
11. TESTING
   A. FABRICATOR TO ADD TEST STRUCTURES OR COUPONS AS NEEDED.
   B. T-LINE IMPEDANCE TO BE TESTED OR GUARANTEED WITHIN 10% IF SPECIFIED IN THE CROSS SECTION. TOLERANCE TO BE +/- 10% UNLESS OTHERWISE SPECIFIED.

Symbol	Hit Count	Tool Size	Physical Length	Rout Path Length	Plated	Hole Type
□	133	8mil (0.203mm)			PTH	Round
▽	1	10mil (0.254mm)			PTH	Round
✲	3	12mil (0.305mm)			PTH	Round
○	6	20mil (0.508mm)			PTH	Round
○	2	23.622mil (0.6mm)			PTH	Round
◇	6	28mil (0.711mm)			PTH	Round
⌘	14	31.496mil (0.8mm)			PTH	Round
○	4	32mil (0.813mm)			PTH	Round
◇	2	33.465mil (0.85mm)			PTH	Round
⊠	56	35.433mil (0.9mm)			PTH	Round
▽	6	39.37mil (1mm)			PTH	Round
□	9	40mil (1.016mm)			PTH	Round
✲	14	41mil (1.041mm)			PTH	Round
○	31	42mil (1.067mm)			PTH	Round
B	6	45mil (1.143mm)			PTH	Round
D	2	47.244mil (1.2mm)			PTH	Round
C	10	67mil (1.702mm)			PTH	Round
A	2	120mil (3.048mm)			PTH	Round
⌘	4	125mil (3.175mm)			PTH	Round
⊠	2	43.307mil (1.1mm)	98.425mil (2.5mm)	55.118mil (1.4mm)	PTH	Slot
	313 Total					

Slot definitions : **Rout Path Length** = Calculated from tool start centre position to tool end centre position.
Physical Length = Rout Path Length + Tool Size = Slot length as defined in the PCB layout



Drill Guide Mechanical 1