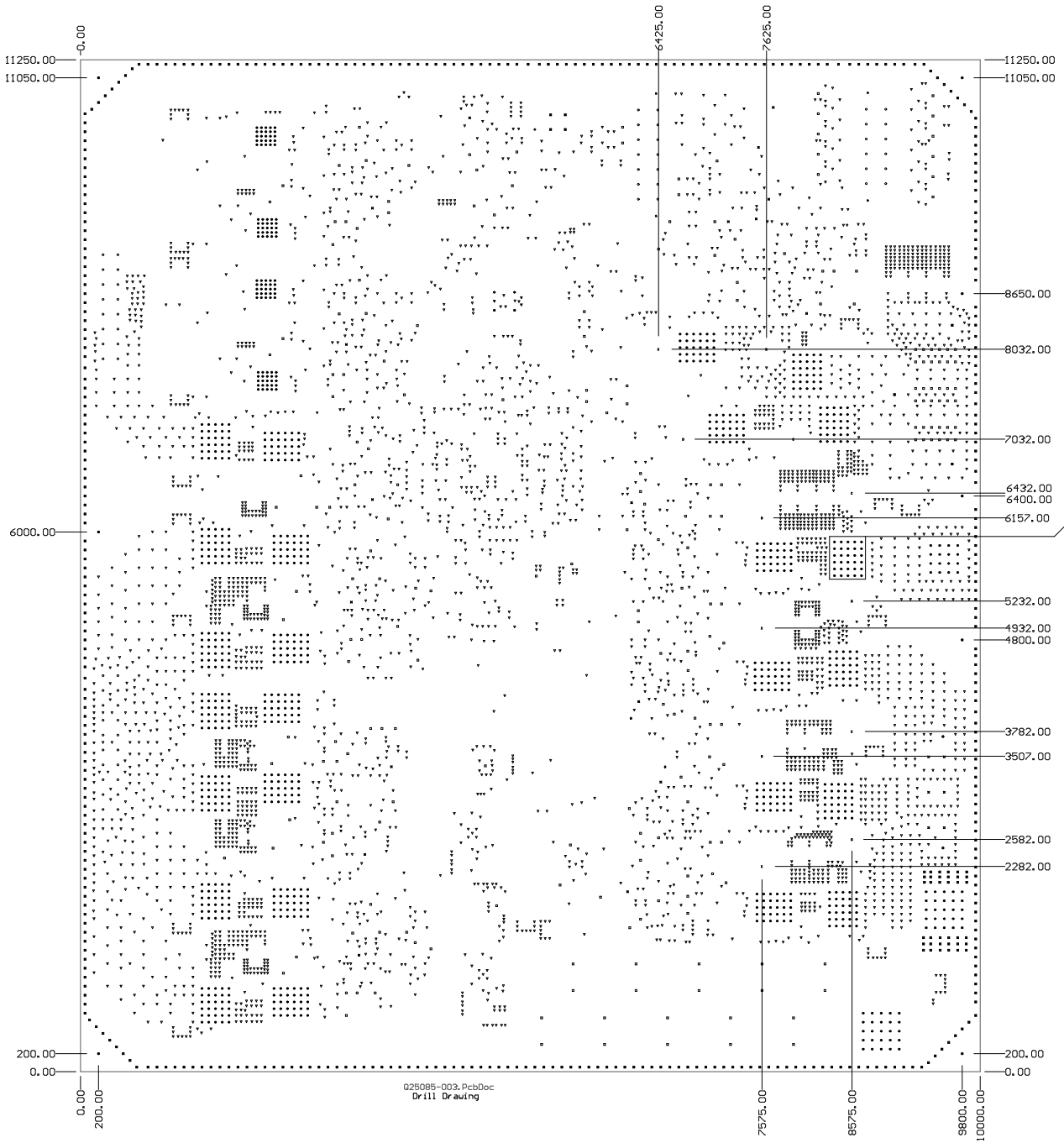

FABRICATION NOTES:

1. MATERIAL SELECTION:
   370HR OR EQUIVALENT UL RECOGNIZED ZPMV2 MIN. 130C FLAME CLASS V-0 OR BETTER, MINIMUM CTI RATING OF 175. .062 +/- 0.007 THICK. MATERIAL PER IPC-4101
   SOLDERABLE SURFACES TO BE ENIG (ELECTROLESS NICKEL IMMERSION GOLD) FINISH.
   STARTING COPPER WEIGHT ALL LAYERS 2 oz. MINIMUM

2. SOLDER RESIST: THE USE OF SOLDER RESIST COATING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF IPC-SM-840. ALL SOLDERABLE SURFACES ARE TO BE FREE OF SOLDER RESIST. COLOR - GREEN.
   USE LIQUID PHOTOIMAGEABLE RESIST. MATTE FINISH.
3. SILKSCREEN: USE WHITE NON-CONDUCTIVE INK. ALL COMPONENT AND TESTPOINT LANDS ARE TO BE FREE OF INK.
   PLACE UL 94V-0 RATING ON SOLDER SIDE IN SILKSCREEN ONLY.
4. MANUFACTURER'S IDENTIFICATION: ADD IN ETCH OR TO SILKSCREEN.
5. ELECTRICAL BARE BOARD TEST REQUIRED.
6. DRILL SIZES ARE FINISHED SIZES AFTER PLATING.
7. FABRICATE TO MEET EU RoHS DIRECTIVE.
8. PCB MUST HAVE UL 94V-0 AND CTI RATING MARKED ON ONE SIDE.
9. MAX WARP AND TWIST NOT TO EXCEED 0.010 PER LINEAR INCH.
10. MIN ANNULAR RING: 0.003. MIN PLATED HOLE WALL THICKNESS 0.001.
11. DIMENSIONAL TOL: XX +/- 0.010. XXX +/- 0.005.
12. FABRICATE IN ACCORDANCE WITH IPC-600 OR IPC-6012 LATEST REVISION. CLASS 2.
13. COPPER THEIVING OF THE SIGNAL LAYERS IS NOT ALLOWED.
14. PCB FABRICATOR IS ALLOWED TO ADJUST PARAMETERS TO ACHIEVE REQUIRED TRACE IMPEDANCE +/-10%.
15. VIPPO TECHOLOGY REQUIRED - ALL 12.1 MIL VIAS (880) TO BE NON-CONDUCTIVE EPOXY FILLED AND PLATED OVER.

Layer	Name	Material	Thickness	Constant	Board Layer Stack
	Top Overlay				
	Top Solder	Solder Resist	1.00mil	3.8	
1	Top Layer 1	Copper	3.80mil		
	Dielectric 1		4.80mil	4.2	
2	Layer 2 (GND)	Copper	2.60mil		
	Dielectric 2	FR-4	14.00mil	4.2	
3	Layer 3 (PWR)	Copper	2.60mil		
	Dielectric 3		4.80mil	4.2	
4	Layer 4 (Sig H)	Copper	2.60mil		
	Dielectric 4	FR-4	14.00mil	4.2	
5	Layer 5 (Sig V)	Copper	2.60mil		
	Dielectric 5		4.80mil	4.2	
6	Bottom Layer 6	Copper	3.80mil		
	Bottom Solder	Solder Resist	1.00mil	3.8	
	Bottom Overlay				

Symbol	Count	Hole Size	Plated	Hole Type	Pad Shape
▽	4352	12.00mil (0.3050mm)	PTH	Round	Rounded
⊕	880	12.10mil (0.3070mm)	PTH	Round	Rounded
⊠	430	15.00mil (0.3810mm)	PTH	Round	Rounded
B	2	16.00mil (0.4060mm)	PTH	Round	Rounded
▽	3	39.00mil (0.9910mm)	NPTH	Round	Rounded
✖	18	40.00mil (1.0160mm)	PTH	Round	Rounded
□	224	40.00mil (1.0160mm)	PTH	Round	(Mixed)
⊠	1	55.00mil (1.3970mm)	PTH	Round	(Mixed)
✡	66	58.00mil (1.4730mm)	PTH	Round	Rectangle
○	62	72.00mil (1.8290mm)	PTH	Round	(Mixed)
✱	1	93.00mil (2.3620mm)	NPTH	Round	Rounded
✖	3	97.00mil (2.4640mm)	NPTH	Round	Rounded
⊠	6	110.00mil (2.7940mm)	PTH	Round	(Mixed)
A	4	118.00mil (2.9970mm)	NPTH	Round	Rounded
⊙	2	118.00mil (2.9970mm)	PTH	Round	Rounded
◇	1	125.00mil (3.1750mm)	NPTH	Round	Rounded
D	6	150.00mil (3.8100mm)	NPTH	Round	Rounded
✪	8	156.00mil (3.9620mm)	NPTH	Round	Rounded
C	6	187.00mil (4.7500mm)	NPTH	Round	Rounded
	6081 Total				