SEE 001svengprerelstackup18.pdf FOR CORRECT STACKUP INFORMATION

Layer Stack Up Detail for: SV600847A1.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 L1	(.GTL)	0.6mil				
			4mil	Rogers RO4350	3.66	Core
Gnd-Plane - L2	(.GP1)	1.2mil				
			6.7mil	NP 4000-6	4.11	PrePreg
Signals - L3	(.G1)	0.6mil				
			6mil	NP 4000-6	4.11	Core
Gnd-Plane - L4	(.GP2)	1.2mil				
			4.1mil	NP 4000-6	4.11	PrePreg
Pwr Plane - L5	(.GP3)	1.2mil				
			6mil	NP 4000-6	4.11	Core
Signals - L6	(.G2)	0.6mil				
			6.7mil	NP 4000-6	4.11	PrePreg
Gnd-Plane - L7	(.GP4)	1.2mil				
			4mil	Rogers RO4350	3.66	Core
Signals - L8	(.G3)	0.6mil				
			7.3mil	Rogers RO4350	3.66	PrePreg
Gnd-Plane - L9	(.GP5)	1.2mil				
			4mil	Rogers RO4350	3.66	Core
Bottom Layer - L10	(.GBL)	0.6mil				
Bottom Solder Mask	(.GBS)		0.4mil	Solder Resist	3.50	

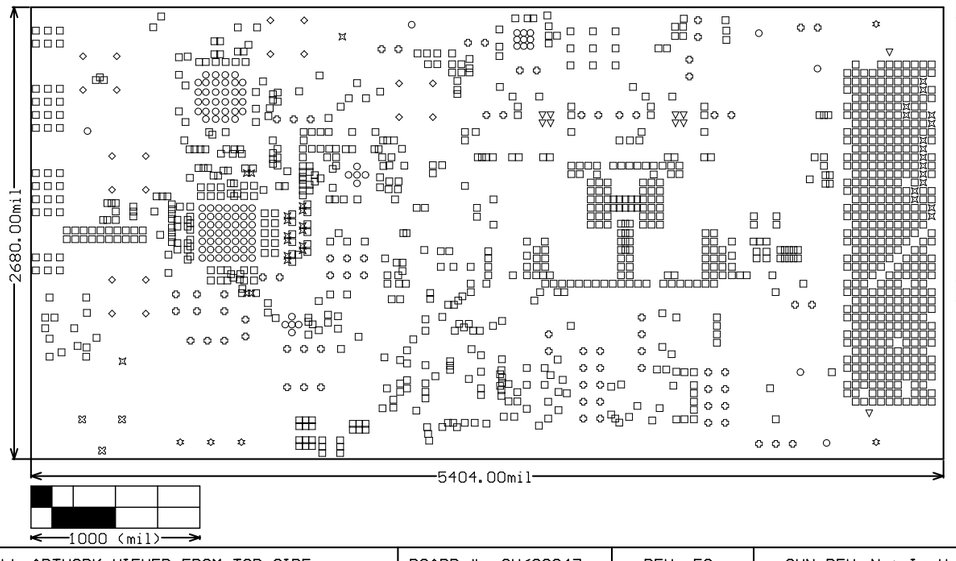
SEE 001svengprerelstackup18.pdf FOR CORRECT IMPEDANCE INFORMATION

Single ended tracks 50 ohms Top & Bottom Layers equal 8.0mil width.

Differential tracks 100 ohms Top & Bottom Layers equal 8.0mil width & 8.0mil spacing.

Differential tracks 100 ohms Inner Layers equal 4.0mil width & 4.0mil spacing.

Back Drill high speed lines 8.001 mil vias from Layer 1 to Layer 7, leaving the via connecting layer 8 to layer 10.



Symbol	Hit Count	Tool Size	Physical Length	Rout Path Length	Plated	Hole Type
○	100	7.874mil (0.2mm)			PTH	Round
□	1147	8mil (0.203mm)			PTH	Round
⌑	32	8.001mil (0.203mm)			PTH	Round
▽	8	12.992mil (0.33mm)			PTH	Round
□	11	37.992mil (0.965mm)			PTH	Round
✡	77	40mil (1.016mm)			PTH	Round
▽	2	50mil (1.27mm)			NPTH	Round
◇	20	59.055mil (1.5mm)			PTH	Round
○	6	63mil (1.6mm)			PTH	Round
✡	3	64.961mil (1.65mm)			PTH	Round
✡	2	106mil (2.692mm)			PTH	Round
⌑	2	125.984mil (3.2mm)			PTH	Round
⊠	3	39.37mil (1mm)	137.795mil (3.5mm)	98.425mil (2.5mm)	PTH	Slot
	1413 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 Table

DESIGN INFORMATION

BOARD SIZE (REFER ALSO ARRAY/PANEL PROFILING INFORMATION)
_____ X _____

Number of Layers : 10
MIN. TRACK WIDTH: 4 MIL
MIN. CLEARANCE: 4 MIL
MIN. VIA PAD SIZE: 18 MIL
MINIMUM ANNULAR RING 0.05mm (2MIL) EXTERNAL
PER IPC-D-275 CLASS 2 LEVEL C
REGISTRATION TOLERANCES: METAL +/- 5 MIL, HOLES +/- 3 MIL

MATERIAL:
[ ] FR-4 [ ] FR-4 High Tg [X] OTHER SEE LAYER STACK UP
THICKNESS: [X] 62 MIL (1.6mm) +/-10% [ ] OTHER
TOLERANCE: [X] ANSI IPC-6012 TYPE 3 CLASS 2
[ ] OTHER +/-
BOW & TWIST: [X] ANSI IPC-6012 TYPE 3 CLASS 2
[ ] OTHER +/-
COPPER THICKNESS (FINISHED):
OUTER: [X] 0.7MIL (0.5oz) [ ] 1.4MIL (1oz) [ ] 2.8MIL (2oz)
INNER SIGNAL: [X] 0.7MIL (0.5oz) [X] 2.8MIL (2oz) [ ] N/A
DRILLING:
REFERENCE: [X] AS SHOWN [X] NC_DRILL FILES
PTH MIN COPPER THICKNESS: [X] 1MIL [ ] OTHER
BOARD FINISH:
SILKSCREEN: [X] TOP [X] BOTTOM
SILKSCREEN COLOR: [X] WHITE [ ] OTHER
SOLDER RESIST COLOR:
[X] GREEN [ ] BLUE [ ] OTHER
SURFACE FINISH: [X] IMMERSION GOLD (ENIG)
[ ] IMM. TIN/SILVER OR EQUIV [ ] OTHER
ARRAY/PANEL: [ ] CUT AND TRIM PER MECH LAYER 1
[ ] N.C. ROUTE [X] V. SCORE
CERTIFICATION: MATERIALS AND WORKMANSHIP FOR ALL PCBS TO MEET OR EXCEED THE REQUIREMENTS OF:
[X] ANSI IPC-A-600F CLASS -> [ ] 1 [X] 2 [ ] 3
[X] UL 94V-0 [X] RoHS [ ] OTHER PER ORDER
ADDITIONAL REQUIREMENTS:
MICROSECTION: [ ] YES
BARE BOARD ELEC. TEST: [ ] NONE [X] REQUIRED [ ] PER ORDER
MANUFACTURER'S ID/LOGO: [ ] RAIL [X] METAL [ ] SILK

TEXAS INSTRUMENTS

PROJECT TITLE: ADC12J4000 / LM15851 EVAL BOARD
DESIGNED FOR: Internal Use Only
FILE NAME: SV600847E3.PcbDoc

ALL ARTWORK VIEWED FROM TOP SIDE	BOARD #: SV600847	REV: E3	SVN REV: Not In VersionControl
LAYER NAME = [illegible]ions			
PLOT NAME = Fabrication Drawing	GENERATED : 11/26/2013 3:01:38 PM	TEXAS INSTRUMENTS	

ENGINEER: Marjorie Plisch
LAYOUT BY: Bob Holtz
SCALE: 1.09
ALTIUM DESIGNER VERSION: 10.0.0.27009