

Layer Stack Up Detail for: SU601147B.PcbDoc

Layer	Order	Copper Thickness	Dielectric Height	Dielectric Material	Dielectric Type
Top Solder Mask	<GTS>		0.4mil	Solder Resist	
Top Layer	<BTL>	1.4mil	12.6mil	FR-4	Core
Middle Layer 1	<B1>	1.4mil	30.4mil	FR-4	Prepreg
Middle Layer 2	<B2>	1.4mil	12.6mil	FR-4	Core
Bottom Layer	<BBL>	1.4mil			
Bottom Solder Mask	<GBS>		0.4mil	Solder Resist	

DESIGN INFORMATION

BOARD SIZE (REFER ALSO ARRAY/PANEL PROFILING INFORMATION)
2145MIL X 1865MIL

Number of Layers : 4
MIN. TRACK WIDTH: 4 MIL
MIN. CLEARANCE: 4 MIL
MIN. VIA PAD SIZE: 20 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-408 ☒ FR-4 High Tg ☐ OTHER
THICKNESS: ☒ 62 MIL (1.6mm) +/-10% ☐ OTHER
TOLERANCE: ☒ ANSI IPC-6012 TYPE 3 CLASS 2
☐ OTHER +/-
BOW & TWIST: ☒ ANSI IPC-6012 TYPE 3 CLASS 2
☐ OTHER +/-

COPPER THICKNESS (FINISHED):
OUTER: ☒ 1.4MIL (1oz) ☐ 2MIL (1.4oz) ☐ 2.8MIL (2oz)
INNER SIGNAL: ☒ 1.4MIL (1oz) ☐ 2.8MIL (2oz) ☐ N/A

DRILLING:
REFERENCE: ☒ AS SHOWN ☒ NC DRILL FILES
PTH MIN COPPER THICKNESS: ☒ 1MIL ☐ OTHER

BOARD FINISH:
SILKSCREEN: ☒ TOP ☒ BOTTOM
SILKSCREEN COLOR: ☒ WHITE ☐ OTHER
SOLDER RESIST COLOR: ☒ GREEN ☐ BLUE ☐ OTHER

SURFACE FINISH: ☒ IMMERSION GOLD (ENG) ☐ ENEPIG
☐ IMM. TIN/SILVER OR EQUIV ☐ OTHER

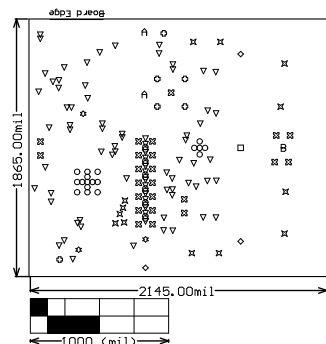
ARRAY/PANEL: ☐ CUT AND TRM PER MECH LAYER 1
☒ N.C. ROUTE ☐ V. SCORE

CERTIFICATION: MATERIALS AND WORKMANSHIP FOR ALL PCBs TO MEET OR EXCEED THE REQUIREMENTS OF:
☒ ANSI IPC-A-600F CLASS -> ☐ 1 ☒ 2 ☐ 3
☒ UL 94V-0 ☒ RoHS ☐ OTHER PER ORDER

ADDITIONAL REQUIREMENTS:
MICROSECTION: ☐ YES
BARE BOARD ELEC. TEST: ☐ NONE ☒ REQUIRED ☐ PER ORDER
MANUFACTURER'S UL: ☐ RAL ☐ METAL ☒ SILK

Symbol	Hit Count	Tool Size	Physical Length	Route Path Length	Plated	Hole Type
o	18	7.874mil (0.2mm)			PTH	Round
v	66	6mil (0.203mm)			PTH	Round
o	12	14mil (0.356mm)			NPTH	Round
x	9	16mil (0.381mm)			PTH	Round
v	13	20mil (0.508mm)			NPTH	Round
e	2	25mil (0.635mm)			PTH	Round
o	2	28mil (0.711mm)			PTH	Round
o	22	40mil (1.016mm)			PTH	Round
x	4	51.18mil (1.3mm)			PTH	Round
e	1	59.095mil (1.5mm)			PTH	Round
o	4	66.929mil (1.7mm)			PTH	Round
o	1	91mil (0.787mm)	162mil (4.115mm)	131mil (3.327mm)	NPTH	Slot
e	1	91mil (0.787mm)	200mil (5.08mm)	169mil (4.293mm)	NPTH	Slot
a	1	91mil (0.787mm)	290mil (6.35mm)	219mil (5.563mm)	NPTH	Slot
o	2	91mil (0.787mm)	460mil (11.684mm)	429mil (10.887mm)	NPTH	Slot
a	1	91mil (0.787mm)	540mil (13.716mm)	509mil (12.929mm)	NPTH	Slot
a	1	91mil (0.787mm)	600mil (15.24mm)	569mil (14.453mm)	NPTH	Slot
o	1	91mil (0.787mm)	812mil (20.574mm)	779mil (19.787mm)	NPTH	Slot
Total						

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



ALL ARTWORK VIEWED FROM TOP SIDE	BOARD #: SU601147	REV: B	SUN REV: Not In VersionControl
LAYER NAME = Microsection Dimensions			
PLOT NAME = Fabrication Drawing	GENERATED : 3/5/2015 6:08:06 PM	TEXAS INSTRUMENTS	

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SCALE: 1.00	ALTUM DESIGNER VERSION: 14.3.16.37051