

352mr

202.

877	13.78mil	0.35mm	PTH
83	13.78m il	0.35001mm	PTH
48	31mîl	0.7874mm	NPTH
54	35.433mil	0.9mm	PTH
59	39.37mil	1mm	PTH
6	129.921mil	3.3mm	PTH
5	137.795mil	3.5mm	PTH
4	157.48mil	4mm	NPTH
1136	Total		

FABRICATION NOTES:

- 1. MATERIAL:
 - A) FR4, COLOR GREEN, B-STAGED PREPREG.
 - B) INTERNAL LAYERS: 35um COPPER CLAD.
- C) EXTERNAL LAYERS: 17.5um COPPER FOIL.
- D) FINISHED THICKNESS: 1.6mm +/- 0.18mm.
- 2. DRILLING:
- A) DRILL SIZE TOLERANCE UP TO 1.25mm +0.1mm/-0.05mm, (+/-0.1MM ACCEPTABLE FOR WAS). DRILL SIZE TOLERANCE OVER 1.25mm +/-0.15mm.
- B) HOLE LOCATIONS NOT TO EXCEED 0.05mm FROM TRUE POSITION.
- C) SEE DRILL TABLE FOR HOLE SIZES AND PLATING REQUIREMENTS.
- 3. PLATING:
 - A) MINIMUM PLATING THICKNESS IN HOLES = 25um.
 - B) MINIMUM TOTAL COPPER THICKNESS ON EXTERNAL LAYERS AFTER PLATING = 35um.
- 4. ETCHING:
- A) LAYER TO LAYER MIS-REGISTRATION NOT TO EXCEED 75um FROM TRUE POSITION.
- B) ETCHED PATTERN TO BE WITHIN +/- 25um OF FILM PATTERN.
- C) SEE TARGET IMPEDANCE TABLE FOR CONTROLLED IMPEDANCE SPECIFICATIONS WHEN REQUIRED.
- 5. SOLDERMASK:
 - A) SOLDERMASK TO BE LIQUID PHOTOIMAGEABLE (LPI), COLOR GREEN, OVER BARE COPPER (SMOBC).
 - B) SOLDERMASK IS NOT PERMITTED IN COMPONENT HOLES OR ON COMPONENT PADS.
 - C) SOLDERMASK SHOULD WITHSTAND A MINIMUM OF 500 VDC OF BREAKDOWN VOLTAGE.
 - D) NO SOLDER PICK UP/WICKING DURING WAVE SOLDER.
 - E) MEETS A MINIMUM INSULATION RESISTANCE OF 500 MEGAOHMS.
 - F) THE THICKNESS SHALL BE A MINIMUM OF 18um, MAXIMUM OF 63.5um (25um NOMINAL)
- 6. FINISH:
 - A) EXPOSED COPPER TO BE PLATED USING ELECTROLESS NICKEL IMMERSION GOLD (ENIG)
 - B) FINISHED SURFACE TO BE FREE OF BUBBLES, BLISTERS, AND SOLDER.
- SILKSCREEN:
 - A) SILKSCREEN TO BE WHITE EPOXY INK ON PRIMARY SIDE
- B) INK IS NOT PERMITTED IN COMPONENT HOLES OR ON COMPONENT PADS.
- 8. MAXIMUM CAMBER ALLOWED IS 0.01 mm/mm.
- MINIMUM CONDUCTOR WIDTH USED ON THIS DESIGN IS 0.20mm, MINIMUM CLEARANCE IS 0.20mm. TYPICAL CLEARANCE IS 0.20mm.
- 10. BARE BOARD TEST REQUIRED.
- 11. Mech layer 2 = Routing layer, 80thou bit

PSEUD02				
	_{YER:} gitbagrilgigi g Layer '			
TITLE: KiwiSat				
REV: 2.0 DATE:27-May-2008 DRAWN: Terry Osborne	UNLESS OTHERWISE STATED DRAWING SCALE ALL DIMENSIONS IN mm THIRD ANGLE + SCALE: 0.85			