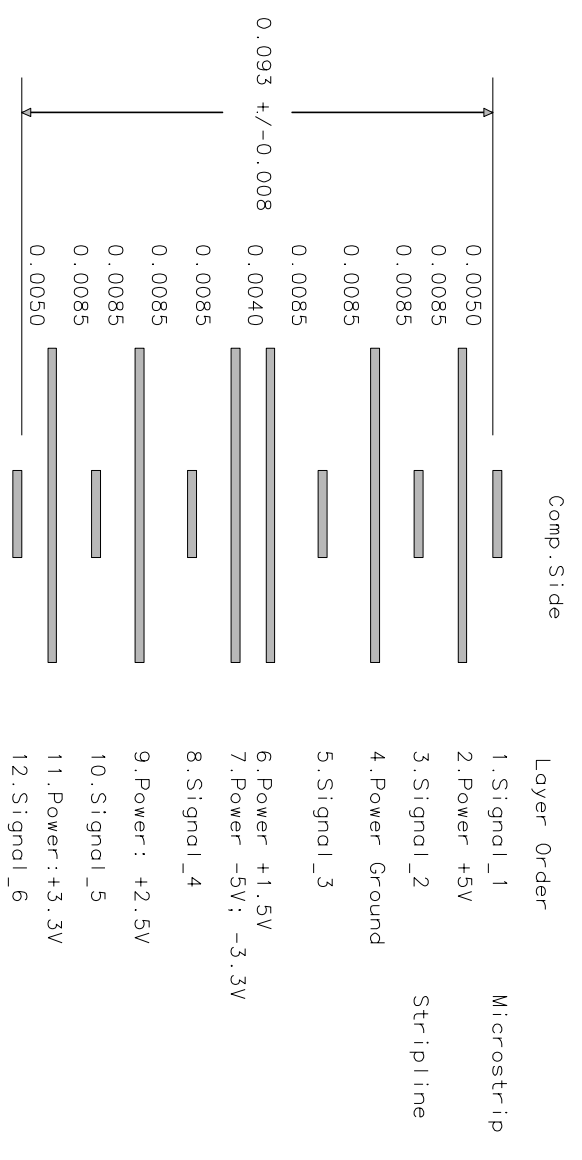


BOARD'S DRILL SCHEDULE

DRILL SYMBOL	DRILL SIZE	COUNT	PLATED	Tolerance	COMMENT
○	.014	1560	YES	---	
⊞	.018	2981	YES	---	
∅	.02	338	YES	---	
⊞	.0236	387	YES	Note 12.	Note 12.
∅	.035	272	YES	---	
⊞	.041	758	YES	---	
⊕	.042	60	YES	---	
□	.05	1	YES	---	
	.052	20	YES	---	
	.057	54	YES	---	
	.095	12	YES	---	
	.106	9	NO	---	
	.113	6	NO	---	
	.12	8	YES	---	
	.16	3	YES	---	



Board Characteristics

- All dimensions are given in inches unless specified otherwise.
- Material FR4 with Tg>170C, E.g. FR406
- Minimum trace width and clearance: 0.006" on Signal_1,6 (Top and Bottom); 0.005" on Signal_2,3,4,5 (all stripline traces); 1/2 oz copper for all power layers and for Stripline trace layers (Signal_2,3,4,5).
- Immersion Gold over copper, with min. Ni: 2.5-5 um; Au: 0.05-0.2 um.
- Apply Solder Mask over bare copper.
- Board Thickness: 0.093 +/- 0.008
- Mill the Top and Bottom of board on the solder side to a thickness of 0.062" +/- 0.008
- Silkscreen on Component and Solder Sides.
- 45 degree chamfer.
- FHS tolerances: +/- 0.002 unless specified otherwise.
- Interlayer spacing as specified
- This is a pressfit technology thru hole with the following specs:
 - 12-1. Finished plated hole size: 0.59 - 0.65 mm.
 - 12-2. Drilled hole size: 0.7mm +/- 0.02mm
 - 12-3. Min. Thickness of thru hole plating: Cu: 25 μm; Ni: 2.5-5 μm; Au: 0.05-0.2 μm.
- Zc=60 Ohm +/- 5 Ohm for 0.005" stripline and 0.006" microstrip traces on all layers.
 - 13a. Zdiff=105 Ohm +/- 5 Ohm for 0.005" (0.005" apart) stripline and 0.006" (0.006" apart) microstrip traces on all layers.
- Perform TDR test (Zc and Zdiff) for all signal layers.
- Present TDR test results for all signal layers.
- Present photo-plots for inspection before making PCB.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS .XXX ANGLES .XX		CONTRACT NO.	
DO NOT SCALE DRAWING		APPROVALS	DATE
DRAWN M. Bogdan		7/28/04	
CHECKED M. Bogdan		7/28/04	
ISSUED			
TITLE		UNIVERSITY OF CHICAGO ELECTRONICS DEVELOPMENT GROUP	
TDC64 Board		Specification Drawing	
SIZE B	FSCM NO.	DWG. NO. A - 2530-64	REV B
SCALE 1/4			SHEET