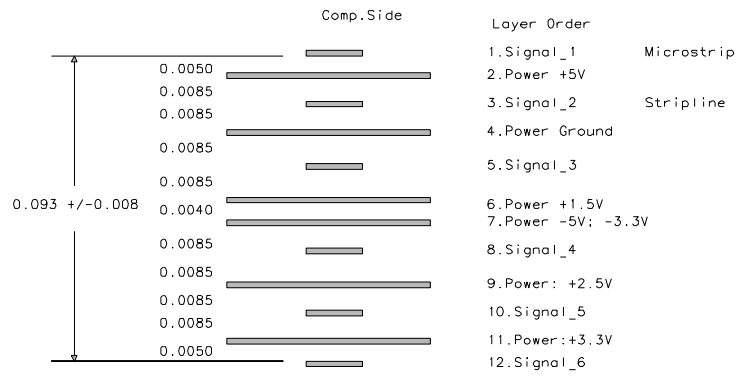
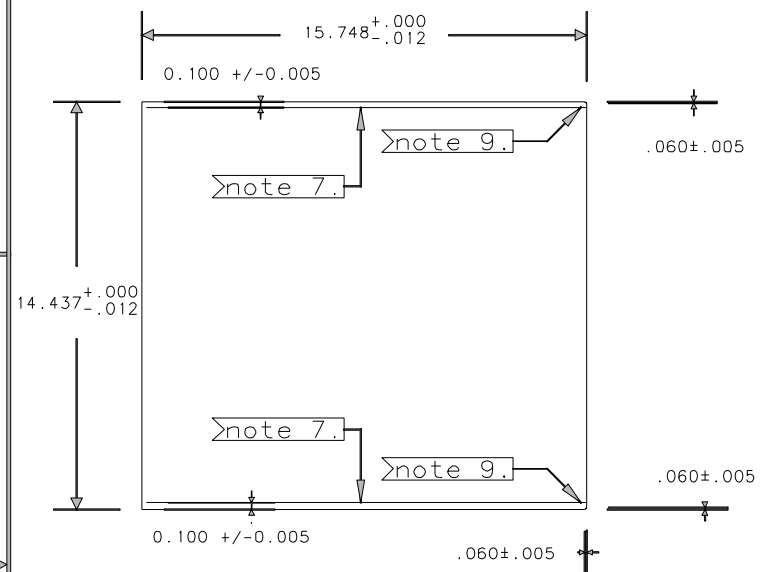


DWG. NO. B - 2481 SH REV. A



- Board Characteristics**
- All dimensions are given in inches unless specified otherwise.
  - Material FR4 with  $T_g > 170C$ , 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 oz copper for all power layers and for Signal\_1,2 (Top and Bottom) 1/2 oz copper for Stripline trace layers (Signal\_2,3,4,5).
  - Immersion Gold over copper, with min. Ni: 2.5-5  $\mu m$ ; Au: 0.05-0.2  $\mu m$ . 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:
    1. Finished hole size: 0.59 - 0.65 mm.
    2. Drilled hole size: 0.7mm +/- 0.02mm
    3. Min. Thickness of thru hole plating: Cu: 25  $\mu m$ ; Ni: 2.5-5  $\mu m$ ; Au: 0.05-0.2  $\mu m$ .
  - $Z_c = 55 \text{ Ohm} \pm 5 \text{ Ohm}$  for 0.005" stripline and 0.006" microstrip traces on all layers. Perform TDR test for all signal layers, using existing test traces on board. Present TDR test results for all signal layers.

BOARD'S DRILL SCHEDULE

DRILL SYMBOL	DRILL SIZE	COUNT	PLATED	Tolerance	COMMENT
○	.014	1560	YES	---	
⊞	.018	2655	YES	---	
⊙	.02	350	YES	---	
⊞	.0236	387	YES	Note 12.	Note 12.
⊙	.035	272	YES	---	
⊞	.041	726	YES	---	
⊙	.042	60	YES	---	
□	.05	1	YES	---	
	.052	20	YES	---	
	.057	47	YES	---	
	.095	12	YES	---	
	.106	9	NO	---	
	.113	6	NO	---	
	.12	8	YES	---	
	.16	2	YES	---	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES .XX .XXX DO NOT SCALE DRAWING	CONTRACT NO.		UNIVERSITY OF CHICAGO ELECTRONICS DEVELOPMENT GROUP	
	APPROVALS	DATE	TITLE	
TREATMENT	DRAWN M. Bogdan	1/12/04	TDC Board Specification Drawing	
FINISH	CHECKED M. Bogdan	1/12/04	SIZE B	FSCM NO.
SIMILAR TO	ACT. WT	CALC. WT	ISSUED	DWG. NO. A - 2530
			SCALE 1/4	REV. A
				SHEET