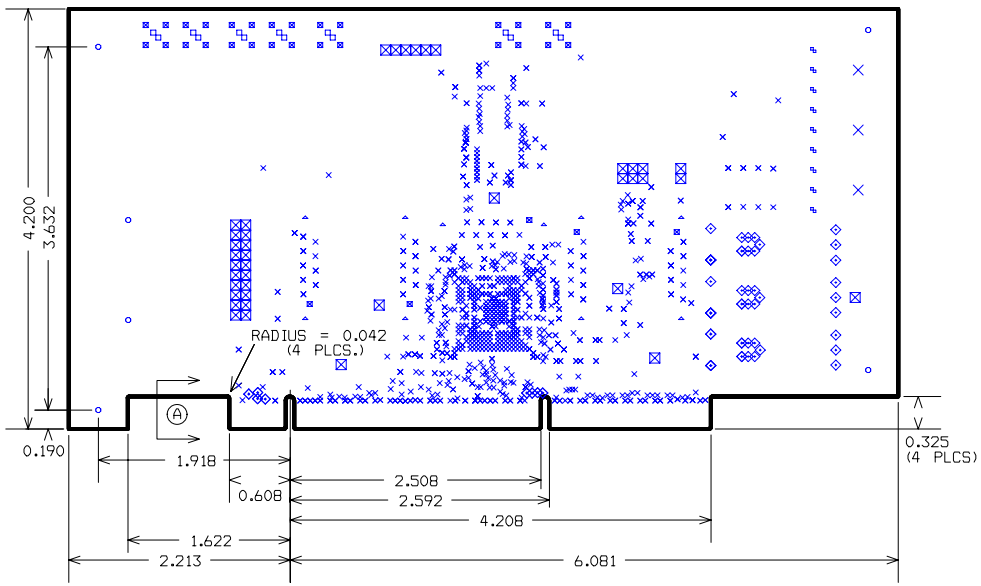


COLUMBIA UNIVERSITY

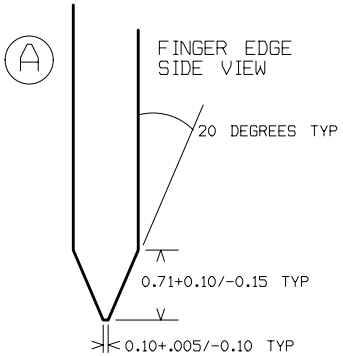
PCB NAME: PCIDDR
PCB REV: A
DATE: 12/4/2003

NOTES:

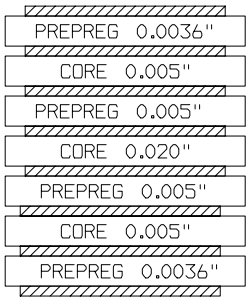
1. ALL DIMENSIONS ARE IN INCHES.
   TOLERANCES UNLESS NOTED OTHERWISES = +/-0.010"
2. THIS IS A 8 LAYER BOARD. 0.005" MIN ETCH/SPACE. MATERIAL:
   FR4 BASE LAMINATE
   1 OZ. FINISHED CU EXTERNAL
   1 OZ. FINISHED CU INTERNAL
3. THRU HOLES AND EXPOSED PADS SHALL BE SOLDER PLATED (HASL)
4. ALL DRILL SIZES INDICATE FINISHED HOLE SIZE.
5. CORE/PREPREG THICKNESSES MAY DEVIATE FROM NOMINAL VALUES SHOWN IN THE STACKUP BELOW AT THE DISCRETION OF THE MANUFACTURER.
6. GOLD PLATE FINGERS ALONG AREA A.
7. SILKSCREEN BOTH SIDES WITH WHITE EPOXY INK. NO INK ON EXPOSED PADS.
8. SOLDERMASK BOTH SIDES LPI GREEN (SMOBC).
9. ALL VIAS ARE TENTED (NO TOP-SIDE SOLDERMASK OPENING).
10. FINISHED BOARD THICKNESS = 0.062" +/-10%
11. REMOVE ALL BURRS AND BREAK SHARP EDGES (0.015" MAX).
12. LAYERS 2,5, AND 7 (GND PLANES) ARE IDENTICAL AND SHORTED TOGETHER.

DRILL CHART

SYM	DIAM	TOL	QTY	NOTE
×	0.010	+/- 0.005"	714	PLATED
◇	0.020	+/- 0.005"	44	PLATED
⊠	0.038	+/- 0.005"	40	PLATED
⊞	0.062	+/- 0.005"	7	PLATED
⊠	0.067	+/- 0.005"	33	PLATED
⊞	0.110	+/- 0.005"	9	PLATED
○	0.125	+/- 0.005"	6	PLATED
△	0.138	+/- 0.005"	10	PLATED
╳	0.328	+/- 0.005"	3	PLATED
TOTAL			866	



BOARD STACKUP:



1. TOP (PRIMARY SIGNAL)
2. GND (PLANE)
3. PWR1 (SPLIT PLANE)
4. INNER (INNER SIGNAL)
5. GND (PLANE)
6. PWR2 (SPLIT PLANE)
7. GND (PLANE)
8. BOTTOM (SECONDARY SIGNAL)

VERSITY

IN INCHES.
OTED OTHERWISES = +/-0.010"
BOARD. 0.005" MIN ETCH/SPACE. MATERIAL:
TE
U EXTERNAL
U INTERNAL
OSED PADS SHALL BE SOLDER PLATED (HASL)
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ESSES MAY DEVIATE FROM NOMINAL VALUES SHOWN
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ALONG AREA A.
ES WITH WHITE EPOXY INK. NO INK ON EXPOSED PADS.
ES LPI GREEN (SMOBC).
) (NO TOP-SIDE SOLDERMASK OPENING).
CKNESS = 0.062" +/-10%
AND BREAK SHARP EDGES (0.015" MAX).
(GND PLANES) ARE IDENTICAL AND SHORTED TOGETHER.

TOP (PRIMARY SIGNAL)

GND (PLANE)

PWR1 (SPLIT PLANE)

INNER (INNER SIGNAL)

GND (PLANE)

PWR2 (SPLIT PLANE)

GND (PLANE)

BOTTOM (SECONDARY SIGNAL)