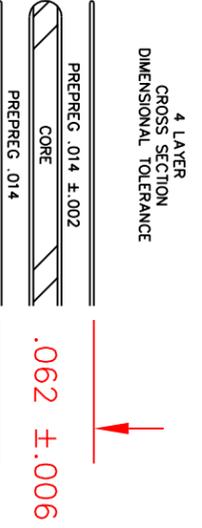
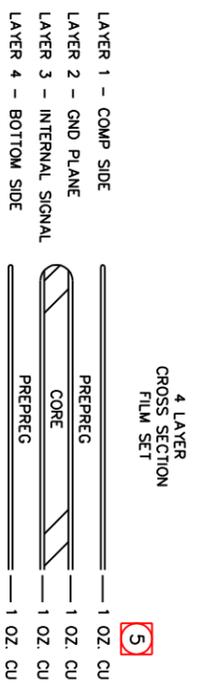
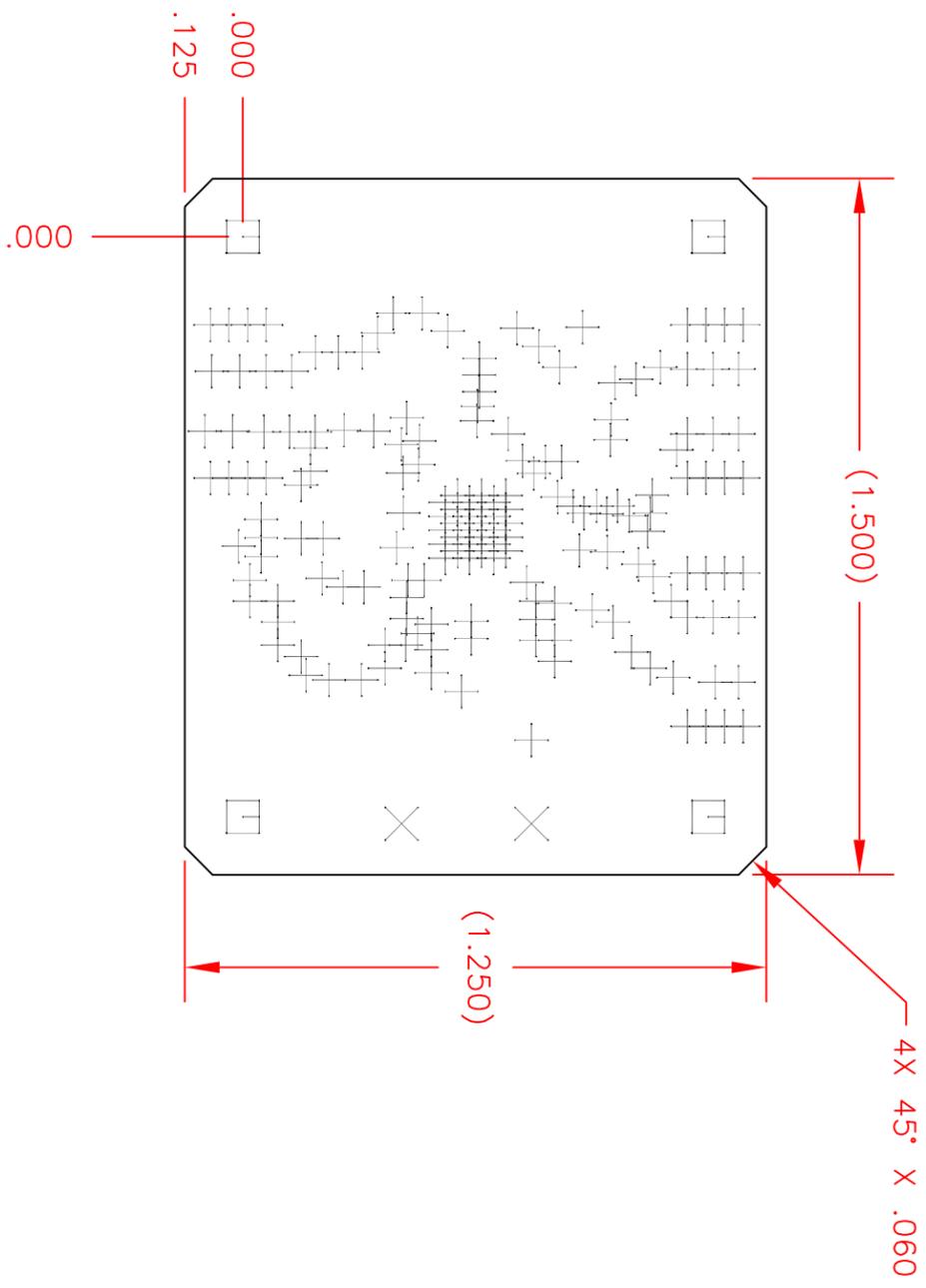


REV	DESCRIPTION	ECO	DATE	BY/APPR
1	VARIOUS CHANGES		8-19-03	TAP/RLR
2	ADD ATTN PADS		12-2-03	TAP/RLR
3	UPDATED TITLE		6-6-05	TAP/RLR

COMPONENT SIDE

- NOTES UNLESS OTHERWISE SPECIFIED:
- FABRICATE IAW IPC-6012, CLASS 2, CURRENT REVISION.
 - BOARD SHALL MEET THE INSPECTION CRITERIA OF IPC-A-600 CLASS 2, CURRENT REVISION.
 - USE ARTWORK 452788AW REV 3.
 - MATERIAL: FR4. SEE LAYER STACK-UP BELOW.
 - FINISHED WEIGHT OF ALL COPPER LAYERS SHALL BE 1 OZ. PER SQUARE FOOT NOMINAL.
 - DESMEAR HOLES AND VIAS.
 - FINISH: HOT-AIR LEVEL TIN-LEAD (HASL).
 - SILKSCREEN COMPONENT SIDE ONLY WITH NONCONDUCTIVE EPOXY INK. COLOR SHALL BE A CONTRASTING INK WITH RESPECT TO SOLDERMASK COLOR. DISTORTION OF SILKSCREEN IS ACCEPTABLE OVER TRACES. REMOVE EPOXY INK FROM SOLDER LANDS.
 - APPLY SOLDERMASK OVER BARE COPPER (SMOBC) IAW IPC-SM-840, BOTH SIDES, USING LPI, COLOR CLEAR OR GREEN. SOLDERMASK OVER VIAS IS NOT ACCEPTABLE.
 - TANGENCY IS ACCEPTABLE.
 - REMOVAL OF NON-FUNCTIONAL PADS ON INTERNAL LAYERS IS ACCEPTABLE.
 - SUPPLIER LOGO AND LOT NUMBER/DATE CODE SHALL ONLY BE SILKSCREENED WITH NON-CONDUCTIVE EPOXY INK IN APPROX. LOCATION SHOWN.
 - MARK ARTWORK 453104AW, CURRENT REV LEVEL APPROX. WHERE SHOWN.
 - ALL ROUTING ARE INDICATED BY HATCHED AREAS.
 - SCORING PROCESS TO FOLLOW DETAIL "A" (SEE SHEET 2). CIRCUIT FABRICATOR TO BREAK ONE SUB-PANEL FROM EACH LOT TO ENSURE PROPER SCORING ACHIEVED.
 - A MAXIMUM OF TWO (2) X-OUT ARE ALLOWED PER SUB-PANEL.



HOLE SCHEDULE (ALL PLATED THRU DIAMETERS ARE AFTER PLATING)

SYM	DESCRIPTION	PLATED THRU	QTY
+	Ø.010 +.003/-0.010 THRU	YES	173
X	Ø.055 +.001/-0.003 THRU	YES	2
□	Ø.102 ±.003 THRU	YES	4

QTY	REV	DESCRIPTION	DATE	BY/APPR
	1	VARIOUS CHANGES	8-19-03	TAP/RLR
	2	ADD ATTN PADS	12-2-03	TAP/RLR
	3	UPDATED TITLE	6-6-05	TAP/RLR

DATE	BY	DESCRIPTION
8-19-03	Todd Patterson	8-19-03
8-19-03	Robert Rogie	8-19-03

SIZE	CAGE CODE	REV
D	14482	3

SCALE	W/O NO.	SHEET	OF
1:1		1	2

COMMUNICATIONS, INC.

PRINTED CIRCUIT BOARD,
SINGLE BRANCH CV

452788PC