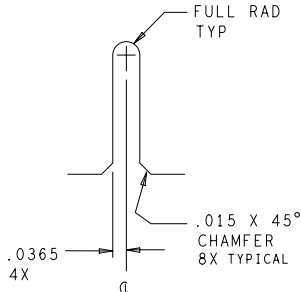


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

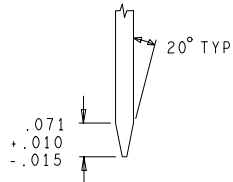
DRILL CHART			
ALL UNITS ARE IN INCHES			
FIGURE	SIZE	PLATED	QTY
*	0.01	PLATED	480
v	0.012	PLATED	414
+	0.013	PLATED	10
•	0.0135	PLATED	949
T	0.029	PLATED	3
c	0.03	PLATED	4
L	0.032	PLATED	10
x	0.035	PLATED	16
□	0.042	PLATED	54
◇	0.043	PLATED	8
○	0.062	PLATED	2
H	0.079	PLATED	4
[H]	0.125	PLATED	3
[S]	0.125	NON-PLATED	2
◇	0.126	NON-PLATED	2

+ .000/- .010  
+ .000/- .012  
+ .000/- .013  
+ .000/- .0135

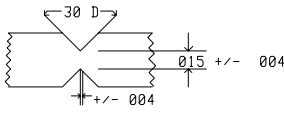
- NOTES:
1. PRIMARY / COMPONENT SIDE SHOWN.
  2. LAYER ORIENTATION: SEE LAYER DETAIL.
  3. MATERIAL: TETRA- OR MULTI- FUNCTIONAL FR-4 LAMINATES AND PREPREGS PER MIL-P-13949. MINIMUM GLASS TRANSITION TEMPERATURE (Tg) OF 170 DEGREE CENTIGRADE REQUIRED. PREPREG & CORE DIELECTRICS MUST BE A MINIMUM 2 PLY.  
0.062" +/- 0.006" (FINISHED)  
- 1/2 OZ. PLATED TO 1.5 OZ. ON OUTER LAYERS  
- 1/2 OZ ON INNER SIGNAL LAYERS.  
- 1 OZ. ON PLANE LAYERS (NO PLATE)  
- PLATED THROUGH HOLES SHALL HAVE A MINIMUM AVERAGE COPPER THICKNESS OF .001" WITH AN ABSOLUTE MINIMUM THICKNESS OF .0008" AS MEASURED IN MIL-P-55110.  
- FINGER CONNECTIONS TO BE ELECTROLYTIC HARD GOLD (.50-100 MICROINCH) OVER LOW STRESS ELECTROLYTIC NICKEL (200 MICROINCH) PER IPC-D-275, TABLE 3-8 CLASS 2. NICKEL GOLD IMMERSION AFTER SOLDER MASK APPLICATION.
  4. THICKNESS:
  5. PLATING:
  6. FINISH:
  7. ANNULAR RING: .002" MINIMUM FOR EXTERNAL ANNULAR RING. .001" MINIMUM FOR INTERNAL ANNULAR RING. TANGENCY IS ACCEPTABLE ON .010" DIA. HOLES.
  8. SOLDER MASK: LIQUID PHOTO IMAGEABLE;  
SOLDER MASK OVER BARE COPPER BOTH SIDES.  
SOLDER MASK REGISTRATION TO BE WITHIN +/- .003" OF ITS RESPECTIVE CIRCUIT LAYERS, AND NO MASK TO APPEAR ON PADS.  
MAXIMUM OF .010 INCH / INCH FOR THROUGH HOLE BOARDS.  
MAXIMUM OF .0075 INCH / INCH FOR SURFACE MOUNT BOARDS.  
WHITE NON-CONDUCTIVE INK. NO INK TO APPEAR ON COMPONENT PADS. LINES TO BE .006" MINIMUM.
  9. BOW AND TWIST: NOMINAL CONDUCTOR WIDTHS ON FINISHED BOARD TO BE WITHIN +/-15%, OR +/-1 MIL, WHICHEVER IS LESS OF ARTWORK AS DEFINED ON GERBERS AND SUPPLIED APERTURE WIDTH.
  10. SILKSCREEN: FINISHED PCB TO BE SUBJECT TO 100% CONTINUITY AND ISOLATION ELECTRICAL TEST. TEST FIXTURES TO BE GENERATED FROM IPC-D-356 FORMATTED NET LIST DATA, CROSS-REFERENCED TO GERBER EXTRACTED NET LIST DATA. VENDOR TO TEST IMPEDANCE ON A COUPON.
  11. PCB:
  12. ELECTRICAL TEST:
  13. HOLE CHART: UNLESS OTHERWISE SPECIFIED, ALL TOLERANCES ARE +/- .003"
  14. SPACING: MINIMUM FINISHED CONDUCTOR SPACING TO BE 5 MILS
  15. SPECIFICATION: UNLESS OTHERWISE SPECIFIED, FAB OF THIS PCB SHALL BE IN CONFORMANCE WITH THE FOLLOWING.  
IPC-6011 CLASS 2 (GENERIC)  
IPC-6012 CLASS 2 (RIGID)  
UL 94V-0 AND MUST MEET REQUIREMENTS OF UL796  
MANUFACTURER MUST BE UL RECOGNIZED TO PRODUCE THIS PRODUCT SUCH THAT IT MEET 130 deg C MAXIMUM OPERATING TEMPERATURE  
THE FOLLOWING MUST BE MARKED OR ETCHED ON SIDE OF 2 OF PCB IN AREA FREE OF COMPONENT COVERING:  
DATECODE (YYWW), UL RECOGNIZED VENDOR ID, UL TYPE DESIGNATION,  
AND/OR MARKING WHICH REFLECT THE SPECIFIED FLAME CLASS AND MAXIMUM OPERATING TEMPERATURE RATINGS.
  16. FLAME CLASS
  17. MOT
  18. MARKINGS
  19. IMPEDANCE: 5.0 MIL TRACES WITH 8 MIL GAP FOR 100 OHM +/- 10%  
DIFFERENTIAL SIGNALS ON LAYER 1 WITH LAYER 2 AS REFERENCE.



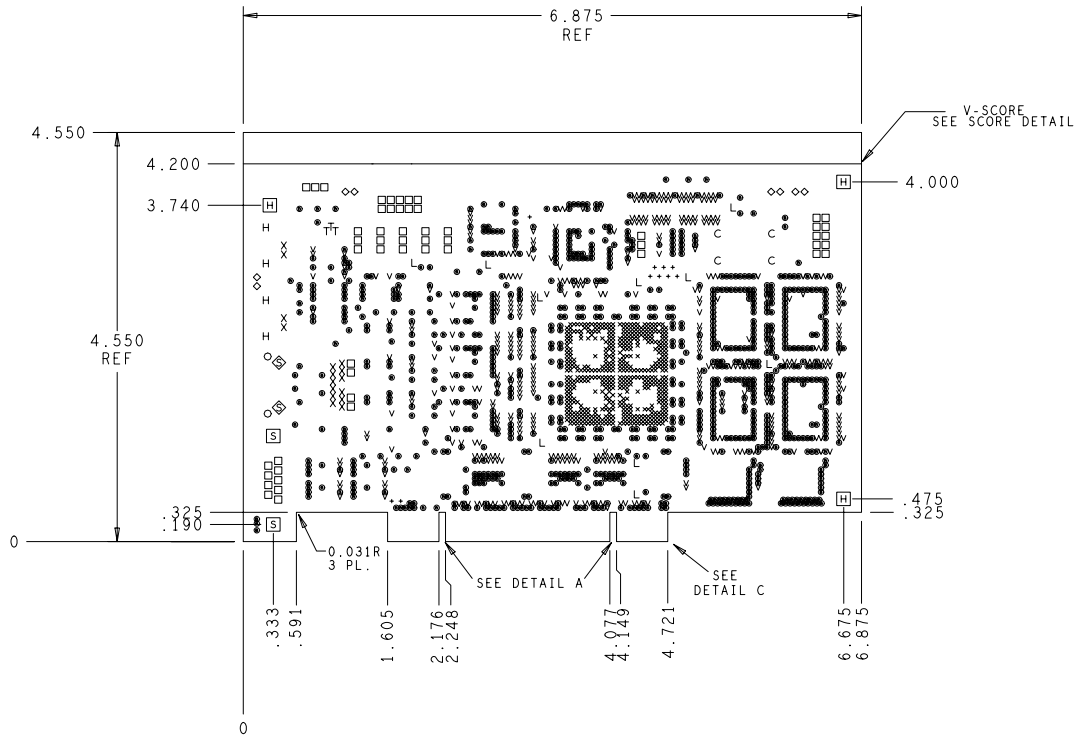
DETAIL A  
SCALE: NONE



DETAIL C  
SCALE: NONE



SCORE DETAIL  
SCALE: NONE



	PRIMARY SIDE	LAYER 1	<input type="text"/>	1/2 OZ
	INTERNAL SIGNAL 1	LAYER 2	<input type="text"/>	1/2 OZ
	GROUND PLANE	LAYER 3	<input type="text"/>	1 OZ
	POWER PLANE +1.5/+5	LAYER 4	<input type="text"/>	1 OZ
	POWER PLANE +3.3	LAYER 5	<input type="text"/>	1 OZ
	GROUND PLANE	LAYER 6	<input type="text"/>	1 OZ
	INTERNAL SIGNAL 2	LAYER 7	<input type="text"/>	1/2 OZ
	SECONDARY SIDE	LAYER 8	<input type="text"/>	1/2 OZ

LAYER DETAIL  
CONSTRUCTION LAMINATE THICKNESS  
AT VENDORS' DISCRETION

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TOLERANCES (UNLESS OTHERWISE NOTED)			
.XX	+/- .01	FRACTIONS	ANG
.XXX	+/- .005	+/- 1/64	1/2°
DRAWN	FREEDOM CAD	03/13/04	TITLE FABRICATION DRAWING RVP8/Rx
CHECKED			
ENGR APPD			
ENGR APPD			
PROJECT MANAGER			SIZE D
			DRAWING NUMBER RVP8/RX
			REV C
SCALE 1/1 SHEET 1 OF 1 FREEDOMCAD#581002F0 LEVEL			