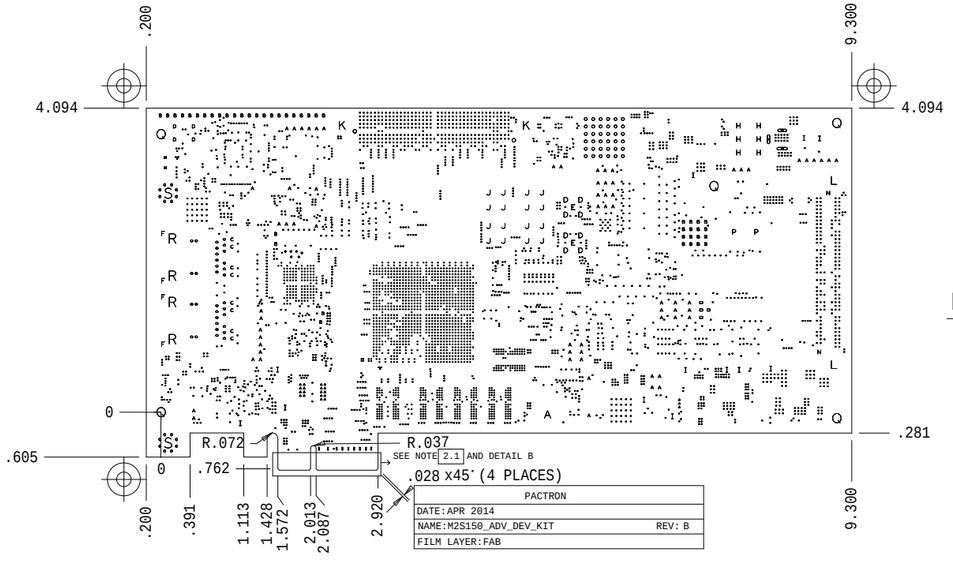
REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
A	INITIAL RELEASE	MAR-2014	
B	SILK CHANGES	APR-2014	

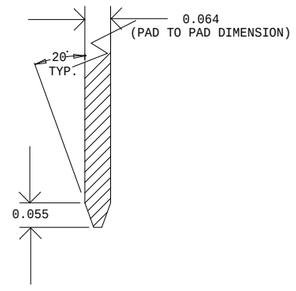
DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
·	8.0	+3.0/-3.0	PLATED	1528
·	10.0	+3.0/-3.0	PLATED	2317
·	10.0	+3.0/-3.0	PLATED	442
·	12.0	+3.0/-3.0	PLATED	5
•	25.0	+3.0/-3.0	PLATED	6
•	28.0	+2.0/-2.0	PLATED	21
◦	35.0	+3.0/-3.0	PLATED	16
◦	35.0	+5.0/-0.0	PLATED	32
A	40.0	+3.0/-3.0	PLATED	67
B	40.0	+3.0/-3.0	PLATED	43
○	40.0	+3.0/-3.0	PLATED	36
⊙	40.0	+3.0/-3.0	PLATED	4
C	40.0	+5.0/-0.0	PLATED	8
○	45.0	+3.0/-3.0	PLATED	4
F	62.0	+3.0/-3.0	PLATED	4
I	65.0	+3.0/-3.0	PLATED	13
H	65.0	+4.0/-0.0	PLATED	6
D	66.93	+3.0/-3.0	PLATED	8
E	66.93	+3.0/-3.0	PLATED	2
J	66.93	+3.0/-3.0	PLATED	16
L	106.0	+3.0/-3.0	PLATED	2
K	125.0	+3.0/-3.0	PLATED	2
▪	35.5	+2.0/-0.0	NON-PLATED	2
N	50.0	+2.0/-0.0	NON-PLATED	2
○	50.0	+2.0/-0.0	NON-PLATED	2
P	66.0	+2.0/-0.0	NON-PLATED	2
A	125.0	+2.0/-2.0	NON-PLATED	1
Q	125.0	+2.0/-2.0	NON-PLATED	5
R	128.0	+2.0/-2.0	NON-PLATED	4
S	138.0	+2.0/-2.0	NON-PLATED	2
⊂⊃	118.11x31.5	+3.0/-3.0	PLATED	1
⊂⊃	118.11x31.5	+3.0/-3.0	PLATED	1
⊂⊃	137.8x31.5	+3.0/-3.0	PLATED	1

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: FR4
2. GENERAL PLATING - ENIG
   FOR SELECTIVE PLATING SEE NOTE 2.1

   2.1. SELECTIVE HARD GOLD PLATING TO BE FLAT &
   PLATED 30uIN (MINIMUM) OF Au OVER 150-200uIN OF Ni.
   GOLD PLATING ON PAD SHOULD BE THE SAME LEVEL OR
   ABOVE THE SOLDER RESIST SURFACE ON TOP AND BOTTOM
3. HOLES TO BE PLATED THROUGH.
   PLATING IN HOLES TO BE 0.001 MIN. THICK.
4. HOLE SIZES ARE AFTER PLATING.
5. SILKSCREEN BOTH SIDES, WHITE.
6. FABRICATE PER DIMENSIONS SHOWN.
7. SOLDER MASK TOP AND BOTTOM SIDES WITH
   LIQUID PHOTO IMAGABLE OR DRY FILM
   SOLDER MASK. COLOR GREEN.
8. TOTAL BOARD THICKNESS: 64 mil+/- 4 mil
   14 LAYER CONSTRUCTION. REFER STACKUP
9. APPLY THIEVING AS REQUIRED.
10. VENDOR TO TEAR-DROP ALL THRU HOLE PADS AT TRACE TO PAD JUNCTION ON
    ALL SIGNAL LAYERS.
11. BOARD MUST BE UL 94V-1 APPROVED
12. FABRICATE BOARD PER IPC-A-600D STANDARD.
13. CLIP SILKSCREEN ON NO MASK AREA.
14. IMPEDANCE TOLERANCE ON OUTER LAYER DIFFERENTIAL PAIRS SHOULD BE +/- 5%.
    FOR OTHER IMPEDENCE TOLERANCE SHOULD BE +/- 10%.
15. NO VENDOR LOGO, ART WORKS SHOULD NOT BE
    CHANGED WITHOUT PRIOR APPROVAL FROM PACTRON
16. DEBURR ALL SHARP EDGES
17. REMOVE UNUSED PADS IN ALL INNER LAYER
18. BOARD DIMENSIONS ARE IN INCHES
19. WARP & TWIST: SHALL NOT EXCEED 0.005 INCHES PER INCH
20. THIS IS A ROHS COMPLIANT BOARD
21. EDGE FINGER- CHAMFER EDGES MUST BE FREE OF CUTTING BURRS

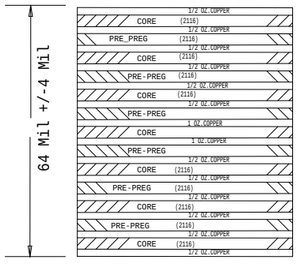




DETAIL B (EDGE BEVEL)

SCALE = NONE

CONTROLLED IMPEDANCE REQUIRED



STACKUP: 14 LAYERS

	50 OHM SINGLE	100 OHM DIFFERENTIAL	90 OHM DIFFERENTIAL
TOP SIDE LAYER 1	6.5 MILS	5 / 8 mils	5.01/4.99 mils
GND PLANE LAYER 2			
SIGNAL LAYER 3	4.0 MILS	3.5/8.0 MILS	
GND PLANE LAYER 4			
SIGNAL LAYER 5	4.0 MILS	3.5/8.0 MILS	
GND PLANE LAYER 6			
PWR PLANE LAYER 7			
PWR PLANE LAYER 8			
GND PLANE LAYER 9			
SIGNAL LAYER 10	4.0 MILS	3.5/8.0 MILS	
GND PLANE LAYER 11			
SIGNAL LAYER 12	4.0 MILS	3.5/8.0 MILS	
GND PLANE LAYER 13			
BOTTOM SIDE LAYER 14	6.5 MILS	5 / 8 mils	5.01/4.99 mils

NOTE: DIELECTRIC GLASS STYLE SHOULD NOT BE CHANGED WITHOUT PRIOR APPROVAL FROM PACTRON.

PACTRON
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408-329-5500(PHONE), 408-747-1239(FAX).

PROJECT NAME	M2S150_ADV_DEV_KIT	
PART NUMBER	DVP-101-000408-001	REV : B
DATE	APR 2014	
PACTRON PART NUMBER	305-PD-14-0324	