REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
A	INTIAL RELEASE	DEC-2014	
B	LENGTH UPDATED	MAR-2015	

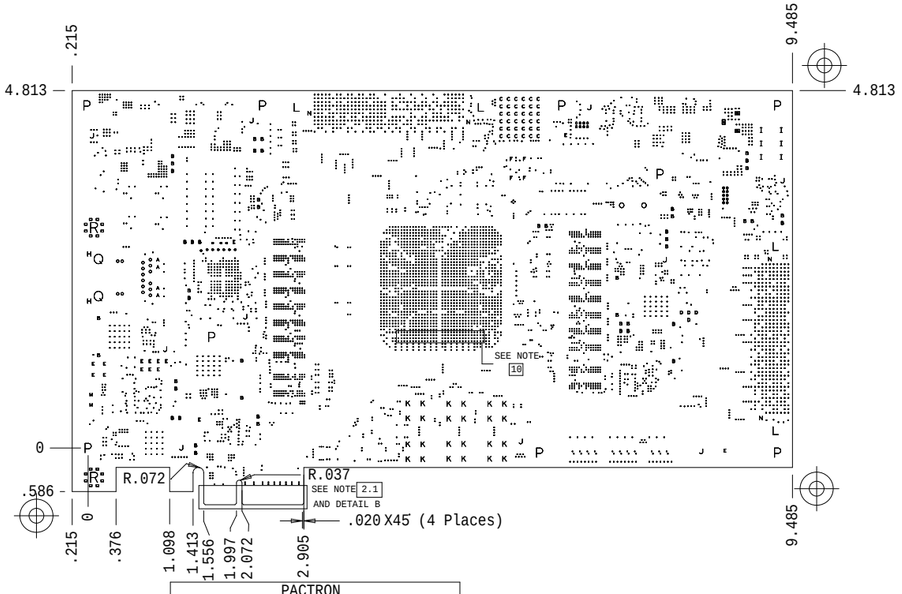
DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
·	8.0	+3.0/-3.0	PLATED	4
·	8.0	+3.0/-3.0	PLATED	2374
·	8.0	+3.0/-3.0	PLATED	2
·	10.0	+3.0/-3.0	PLATED	682
·	10.0	+3.0/-3.0	PLATED	2340
·	12.0	+3.0/-3.0	PLATED	10
•	25.0	+3.0/-3.0	PLATED	10
•	28.0	+2.0/-2.0	PLATED	18
▫	35.0	+3.0/-3.0	PLATED	16
◦	35.0	+5.0/-0.0	PLATED	16
▪	40.0	+3.0/-3.0	PLATED	48
◖	40.0	+3.0/-3.0	PLATED	36
◘	40.0	+3.0/-3.0	PLATED	4
◖	40.0	+3.0/-3.0	PLATED	15
▲	40.0	+5.0/-0.0	PLATED	4
F	45.0	+3.0/-3.0	PLATED	4
H	62.0	+3.0/-3.0	PLATED	2
J	65.0	+3.0/-3.0	PLATED	10
I	65.0	+4.0/-0.0	PLATED	6
K	66.93	+3.0/-3.0	PLATED	24
L	106.0	+3.0/-3.0	PLATED	4
▪	35.5	+2.0/-0.0	NON-PLATED	2
N	50.0	+2.0/-0.0	NON-PLATED	4
O	66.0	+2.0/-0.0	NON-PLATED	2
P	125.0	+2.0/-2.0	NON-PLATED	9
Q	128.0	+2.0/-2.0	NON-PLATED	2
R	138.0	+2.0/-2.0	NON-PLATED	2
▪	63.0x39.37	+3.0/-3.0	PLATED	1
▪	63.0x39.37	+3.0/-3.0	PLATED	2

NOTES: UNLESS OTHERWISE SPECIFIED

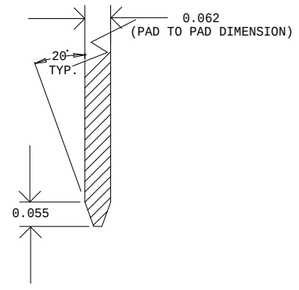
1. MATERIAL: FR-4.
2. GENERAL PLATING - FLASH GOLD
   FOR SELECTIVE PLATING SEE BELOW

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: 62 mil+/- 6 mil
   14 LAYER CONSTRUCTION. REFER STACKUP
9. APPLY THIEVING AS REQUIRED.
10. VIAS IN THIS REGION NEEDS VIA PLUGGING FROM BOTTOM SIDE.
    THE VIAS SHOULD BE SMOOTHENED TO BOARD SURFACE ON TOP AND BOTTOM
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 SHOULD BE +/- 5% ON L1, L12, L14. REST OF THE LAYRES CAN HAVE 10% TOLERANCE
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 LAYERS.
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



PACTRON	
DATE:MAR 2015	
NAME:RTG4 DEVELOPMENT KIT	REV: B
FILM LAYER:FAB	



DETAIL B (EDGE BEVEL)

SCALE = NONE

CONTROLLED IMPEDANCE REQUIRED

STACKUP - 14 LAYERS

DIELECTRIC GLASS STYLE			50 OHM SINGLE	100 OHM DIFFERENTIAL	90 OHM DIFFERENTIAL
		TOP (1.40 mils)	6.5 MILS	5 / 8 MILS	5.1 / 4.9 MILS
	FR-4	**DIELECTRIC (4.00 mils)**			
		L2_GND1 (0.60 mils)			
2116	FR-4	**DIELECTRIC (4.50 mils)**			
		L3_SIG1 (0.60 mils)	4.0 MILS	3.5/8.0 MILS	
2116	FR-4	**DIELECTRIC (4.00 mils)**			
		L4_GND2 (0.60 mils)			
2116	FR-4	**DIELECTRIC (4.50 mils)**			
		L5_SIG2 (0.60 mils)	4.0 MILS	3.5/8.0 MILS	
2116	FR-4	**DIELECTRIC (4.00 mils)**			
		L6_GND3 (0.60 mils)			
	FR-4	**DIELECTRIC (3.50 mils)**			
		L7_PWR1 (1.30 mils)			
	FR-4	**DIELECTRIC (2.00 mils)**			
		L8_PWR2 (1.30 mils)			
	FR-4	**DIELECTRIC (3.50 mils)**			
		L9_GND4 (0.60 mils)			
2116	FR-4	**DIELECTRIC (4.00 mils)**			
		L10_SIG3 (0.60 mils)	4.0 MILS	3.5/8.0 MILS	
2116	FR-4	**DIELECTRIC (4.50 mils)**			
		L11_GND5 (0.60 mils)			
2116	FR-4	**DIELECTRIC (4.00 mils)**			
		L12_SIG4 (0.60 mils)	4.0 MILS	3.5/8.0 MILS	
2116	FR-4	**DIELECTRIC (4.50 mils)**			
		L13_GND6 (0.60 mils)			
2116	FR-4	**DIELECTRIC (4.00 mils)**			
		BOTTOM (1.40 mils)	6.5 MILS	5 / 8 MILS	

NOTE: DIELECTRIC GLASS STYLE SHOULD NOT BE CHANGED WITHOUT PRIOR APPROVAL FROM PACTRON.
FINISHED TRACE WIDTH,AIR GAP OF 100 OHM DIFFERENTIAL AND 50 OHM SIGNLE ENDED
SHOULD NOT BE CHANGED FROM ABOVE STATED VALUES.

PACTRON
3000 PATRICK HENRY DRIVE, SANTA CLARA, CA 95054.
408-329-5500(PHONE), 408-747-1239(FAX).

PROJECT NAME	RTG4 DEVELOPMENT KIT	REV :B
PART NUMBER	DVP-101-000418-001	
ORIGINATOR	NAVANEETHA KRISHNAN S	
DATE	MAR 2015	
PACTRON PART NUMBER	305-PD-15-0161	