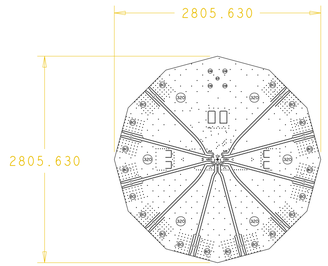
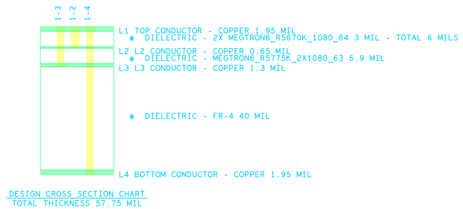
ART FILM - FAB

REVISIONS			
A	INITIAL RELEASE	10/30/14	AALVA





DESIGN CROSS SECTION CHART
TOTAL THICKNESS 57.75 MIL

DRILL CHART: TOP to L2				
ALL UNITS ARE IN MILS				
FIGURE	FINISHED_SIZE	TOLERANCE_DRILL	PLATED	QTY
·	6.0	+3.0/-3.0	PLATED	110
			TOTAL HOLES:	110

DRILL CHART: TOP to L3				
ALL UNITS ARE IN MILS				
FIGURE	FINISHED_SIZE	TOLERANCE_DRILL	PLATED	QTY
·	6.0	+3.0/-3.0	PLATED	2343
			TOTAL HOLES:	2343

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	FINISHED_SIZE	TOLERANCE_DRILL	PLATED	QTY
·	6.0	+3.0/-3.0	PLATED	1012
⊕	46.063	+3.0/-3.0	PLATED	1
⊕	59.8425	+3.0/-3.0	PLATED	4
⊗	125.98	+2.99/-2.99	PLATED	6
⊕	80.0	+2.0/-2.0	NON-PLATED	20
			TOTAL HOLES:	1043

NOTES: UNLESS OTHERWISE SPECIFIED.

ALL FABRICATION ITEMS MUST MEET OR EXCEED BEST INDUSTRY PRACTICE. IPC-A-600C
THIS BOARD MUST BE ROHS COMPLIANT
SOLDERMASK ON BOTH SIDES WITH REGULAR FINISH
SILKSCREEN ON BOTH SIDES WITH NON CONDUCTIVE WHITE INK.CLIP THE SILK ON NO MASK AREA
MARK LOGO, UL RATING AND DATE CODE ON SECONDARY SIDE (BOTTOM).
SERIALIZE BOARDS AS FOLLOWS ON SECONDARY SIDE (BOTTOM): S/N:YYYYMM-### (YEAR, MONTH-NUMBER).
DEBURR ALL SHARP EDGES
THIEVING IS OPTIONAL. IF ADDED IT NEEDS TO BE KEPT AWAY FROM ANY CONDUCTORS BY 250MIL
GROUND SHAPES EXTENDED TO BOARD EDGE ARE INTENTIONAL

MATERIAL:

INNER LAYERS: 0.5 OZ COPPER CLAD
OUTER LAYERS: 1 OZ COPPER FOIL PLATED TO 1 1/2 OZ FINISHED
REFER TO STACKING DIAGRAM FOR FINISHED BOARD THICKNESS

FINISH:

PLATING SPECIFICATION
ELECTROLESS NICKEL/IMMERSION GOLD PER IPC-4552. NICKEL THICKNESS 120-240u"
GOLD THICKNESS 3-6u"
MINIMUM PLATING ON ALL THROUGH HOLES SHALL BE 0.001 INCH Cu

WARP AND TWIST:

OVERALL WARP AND TWIST SHALL NOT EXCEED 5 MIL/INCH
OVERALL FLATNESS SHOULD BE 1.5 MIL/INCH ACROSS BOARD

TDR TESTING

TEST REQUIRED ON BOARD, IN ADDITION TO COUPON BOARD IF USED
TDR RESULTS MUST BE DELIVERED WITH BOARD
SPECIFIC TDR TESTS FOR THE FOLLOWING NETS

SOLDERMASK AND PASTEMASK ARE 1:1 WITH THE PADS, VENDOR CAN GROW IF NEEDED
IMPEDANCE CONTROL: N/A
INTENTIONAL NET SHORTS: YES/NO
VIA FILL: YES/NO
DO NOT USE BREAK-AWAY TABS OR V-SCORING AT SMA CONNECTOR LOCATIONS.
OVERALL THICKNESS OF PCB SHALL NOT EXCEED 68 MILS.
FILL ALL 6 MIL VIAS WITH NON-CONDUCTIVE EPOXY AND PLANARIZE THE SURFACE

UNLESS OTHERWISE SPECIFIED:	SIGNATURES	DATE
DIMENSIONS ARE IN INCHES	DRAWN	
TOLERANCES ON:		
2 PL DECIMALS ±	CHECKED	
3 PL DECIMALS ±	ENGRG	
ANGLES ±	ISSUED	
FRACTIONS ±		
SHEET 1 OF		

RENESAS 515 GROTON ROAD WESTFORD, MA 01886 SUITE 102

F52X8 V300 EVB REVA

SIZE	FSCM NO	DWG NO	REV
C		XXXXXXX	A
SCALE N/A			SHEET

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