

SPECIFICATIONS:

ROHS COMPLIANCE NOTE: HOMOGENOUS MATERIALS IN THIS BOARD SHALL BE COMPLIANT THE EU RoHS DIRECTIVE 2002/95/EC

MATERIALS: ALL LAMINATES AND BONDING MATERIALS SHOULD BE SELECTED FROM IPC-4101 OR IPC-4103, MINIMUM Tg>170degC, Td>300degC, U.L. RATING OF 94 V-0

MATERIAL FAMILY: FR4 OR ISOLA370HR OR S1000-2 OR IT180 OR EQUIVALENT

CLADDING: EXTERNAL LAYERS .5 OZ. COPPER, OVERPLATE TO 1.5 OZ. INTERNAL PLANE LAYERS 1 OZ. COPPER.

NOTE: IF THE LAYER STACKUP CONFLICTS WITH THE ABOVE CLADDING SPECIFICATIONS THEN THE LAYER STACKUP SHALL TAKE PRECEDENCE.

SOLDER MASK: SHALL BE LIQUID PHOTOIMAGEABLE (LPI) APPLIED ON BOTH SIDES OVER BARE COPPER OR GOLD AND SHALL MEET IPC-SM-840 (LATEST REV.) CLASS 3. COLOR GREEN.

SILK SCREEN: SHALL BE PERMANENT NON-CONDUCTIVE EPOXY INK, COLOR: WHITE SYNTHETIC INKJET PRINTING ALLOWED FOR DENSE BOARDS, COLOR: WHITE

SURFACE FINISH: ENIG (ELECTROLESS NICKEL/IMMERSION GOLD) PER IPC-4552 LATEST REVISION

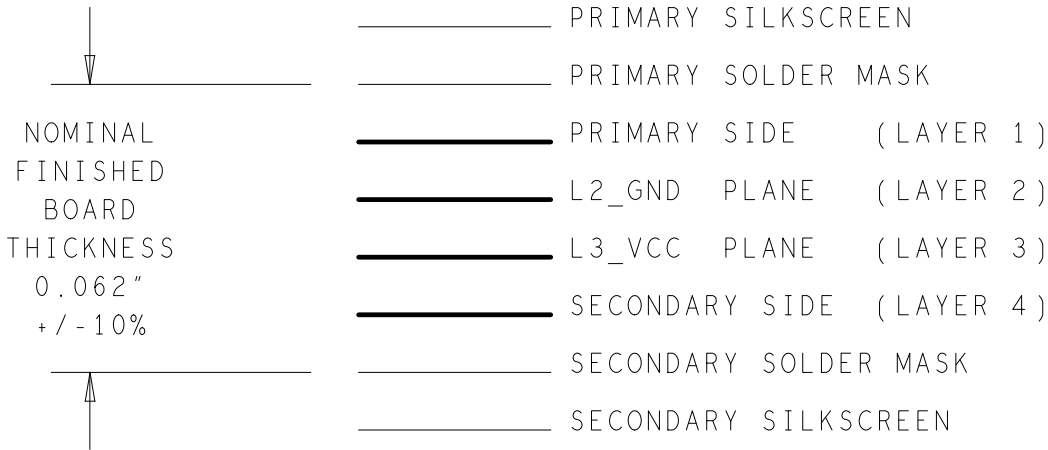
INTENTIONAL SHORTS: IF SUPPLIED DATA INCLUDES A FILE "READ_ME.2", THEN INTENTIONAL NET SHORTS EXIST. CUSTOMER REVIEW AND APPROVAL IS REQUIRED IF SUPPLIED DATA REPORTS ANY CONDITION THAT DOES NOT MATCH "READ_ME.2" FILE PROVIDED.

TEST REQUIREMENTS: 100% NETLIST ELECTRICAL VERIFICATION USING CUSTOMER SUPPLIED IPC-D-356 NETLIST FOR OPENS AND SHORTS WHEN "GERBER DATA" IS PROVIDED. THIS VERIFICATION ALSO REQUIRED FOR "ODB++" DATA PER EMBEDDED NETLIST.

REQUIREMENTS:

- REFER TO IPC-6010 SERIES (LATEST REV.), CLASS 2 FOR FABRICATION UNLESS OTHERWISE SPECIFIED.
- ACCEPTABILITY PER ANALOG DEVICES, INC. SPECIFICATION TST00115, (LATEST REVISION.)
- MODIFICATIONS TO THE ARTWORK ARE NOT ALLOWED WITHOUT WRITTEN AUTHORIZATION.
- HOLE PATTERN TOLERANCES FOR UNDIMENSIONED HOLES SHALL BE A DIAMETER OF 0.005 INCHES FROM THEIR TRUE POSITION.
- PLATED HOLE WALL THICKNESS SHALL NOT BE LESS THAN 0.001 INCH MINIMUM AVERAGE, WITH NO READING LESS THAN .0008 BY CROSS SECTION.
- HOLE DIAMETERS APPLY AFTER PLATING.
- FINISHED CONDUCTOR WIDTHS SHALL NOT BE REDUCED FROM THE NOMINAL INDICATED ON THE MASTER PATTERN, BY MORE THAN THE CONDUCTOR THICKNESS.
- MINIMUM DESIGN LINE WIDTH IS .012 INCH.
- MINIMUM DESIGN SPACING IS .006 INCH.
- ~~NON-FUNCTIONAL PAD REMOVAL FROM INNER SIGNAL LAYERS MAY BE PERFORMED AFTER CUSTOMER APPROVAL.~~
- IF PAD SIZES PROVIDED ARE NOT LARGE ENOUGH TO MAINTAIN ANNULAR RING REQUIREMENT, MFR. MAY REQUEST APPROVAL TO TEAR DROP PADS TO MAINTAIN ANNULAR RING. (AT PAD TO TRACE INTERSECTION ONLY AND ELECTRICAL INTEGRITY MUST BE MAINTAINED.)
- THIEVING MAY BE ADDED TO COMPENSATE FOR LOW COPPER DENSITY AREAS ON THIS DESIGN ONLY AFTER REVIEW AND APPROVAL FROM THE CUSTOMER:
 - THIEVING TO CARD EDGE, FIDUCIALS, NON-PLATED THROUGH HOLES, ALL OTHER FEATURES TO BE 0.200 INCH MINIMUM.
 - THERE SHALL BE NO THIEVING IN ANY AREAS FREE OF SOLDER MASK OR INTERNAL COPPER PLANES.
- MFR. TO LEGIBLY ETCH OR STAMP/SCREEN WITH PERMANENT NON-CONDUCTIVE INK ON SECONDARY SIDE IN A CLEAR AREA UNLESS OTHERWISE INDICATED;
 - U.L. CODE-FLAMMABILITY RATING
 - DATE CODE (STAMP).
 - LOT NUMBER
 - MFR LOGO
 - SUCCESSFUL ELECTRICAL TEST.
- REPAIRS PER IPC-7711/21 (LATEST REV.) ARE ALLOWED.
- BOARDS TO BE SHIPPED IN ARRAY AND KEEP INTACT. PANEL TO BE SUBJECTED TO CUSTOMER'S APPROVAL. PANELED SOLDER PASTE STENCIL SHOULD BE SENT TO THE CUSTOMER.

4 LAYER STACKUP



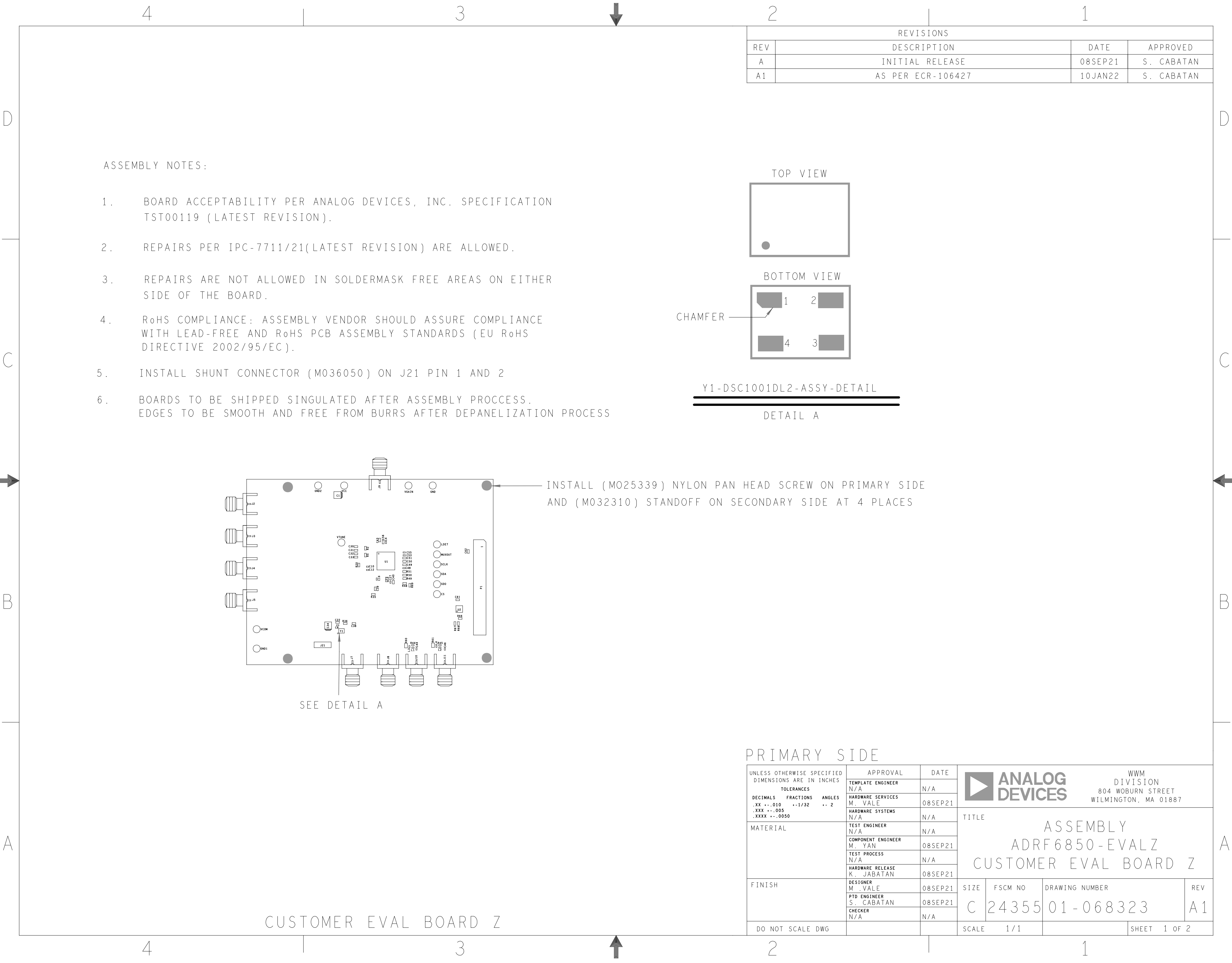
IMPEDANCE TABLE

NOTE: ALL IMPEDANCE TOLERANCE +/- 10%
CPWG = COPLANAR WAVEGUIDE

LAYER	IMPEDANCE	REFERENCE	LINE WIDTH	SPACE
L1	50 OHMS CPW	L2	15MILS	6MILS

PRIMARY SIDE

		WWM DIVISION 804 WOBURN STREET WILMINGTON, MA 01887	
		SIZE	REV
C	FSCM NO 24355	DRAWING NUMBER 09-068323	A1
SCALE 1/1		SHEET 2 OF 2	

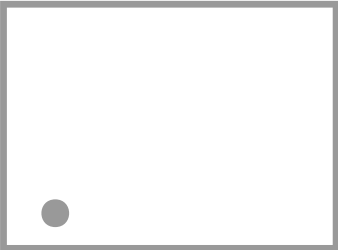


ASSEMBLY NOTES:

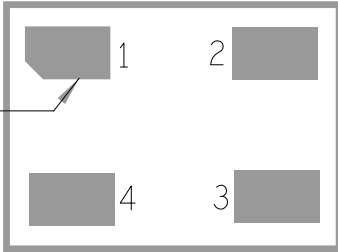
- BOARD ACCEPTABILITY PER ANALOG DEVICES, INC. SPECIFICATION TST00119 (LATEST REVISION).
- REPAIRS PER IPC-7711/21(LATEST REVISION) ARE ALLOWED.
- REPAIRS ARE NOT ALLOWED IN SOLDERMASK FREE AREAS ON EITHER SIDE OF THE BOARD.
- RoHS COMPLIANCE: ASSEMBLY VENDOR SHOULD ASSURE COMPLIANCE WITH LEAD-FREE AND RoHS PCB ASSEMBLY STANDARDS (EU RoHS DIRECTIVE 2002/95/EC).
- INSTALL SHUNT CONNECTOR (M036050) ON J21 PIN 1 AND 2
- BOARDS TO BE SHIPPED SINGULATED AFTER ASSEMBLY PROCCESS. EDGES TO BE SMOOTH AND FREE FROM BURRS AFTER DEPANELIZATION PROCESS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08SEP21	S. CABATAN
A1	AS PER ECR-106427	10JAN22	S. CABATAN

TOP VIEW



BOTTOM VIEW



CHAMFER

Y1-DSC1001DL2-ASSY-DETAIL


DETAIL A

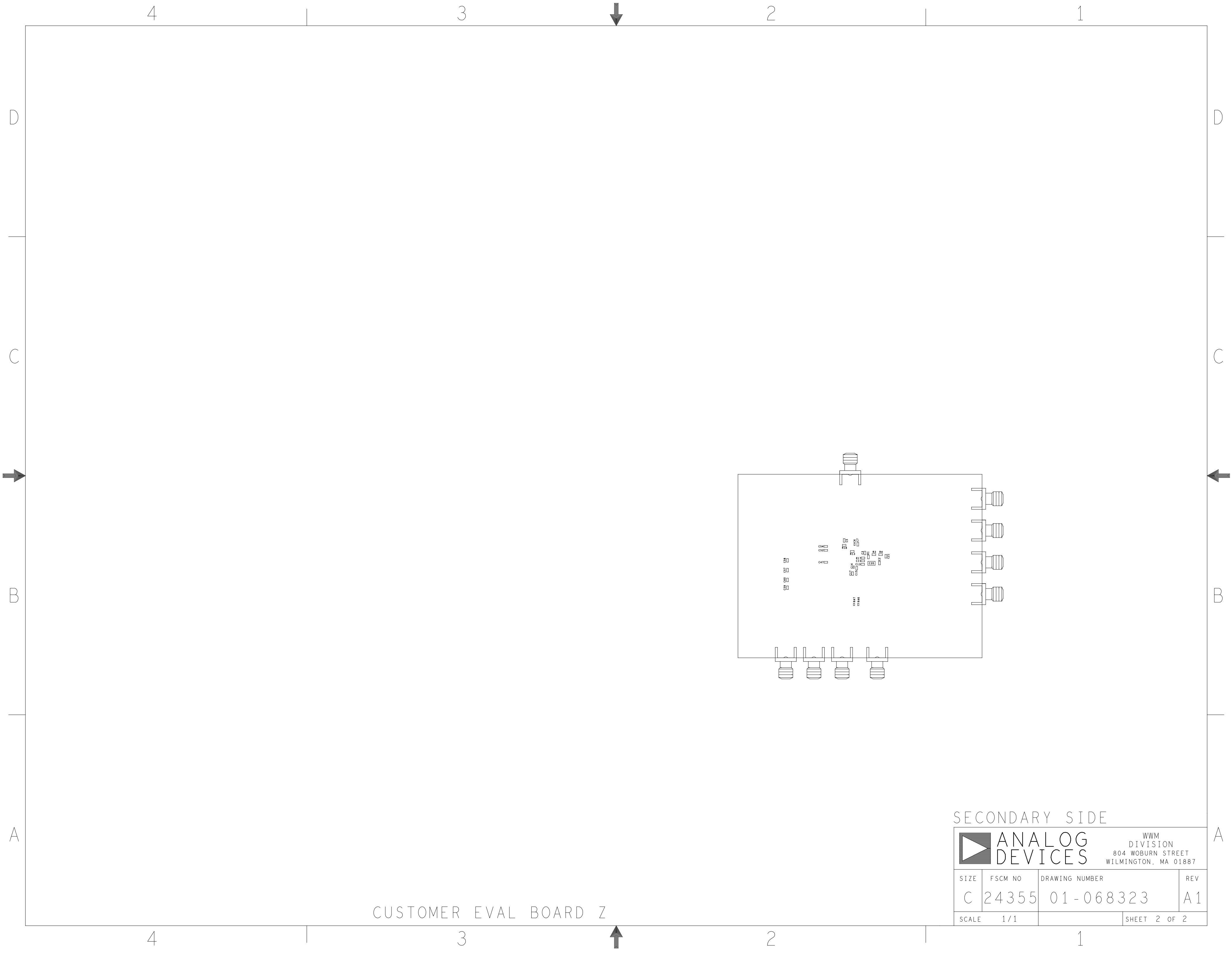
INSTALL (M025339) NYLON PAN HEAD SCREW ON PRIMARY SIDE AND (M032310) STANDOFF ON SECONDARY SIDE AT 4 PLACES

SEE DETAIL A

CUSTOMER EVAL BOARD Z

PRIMARY SIDE

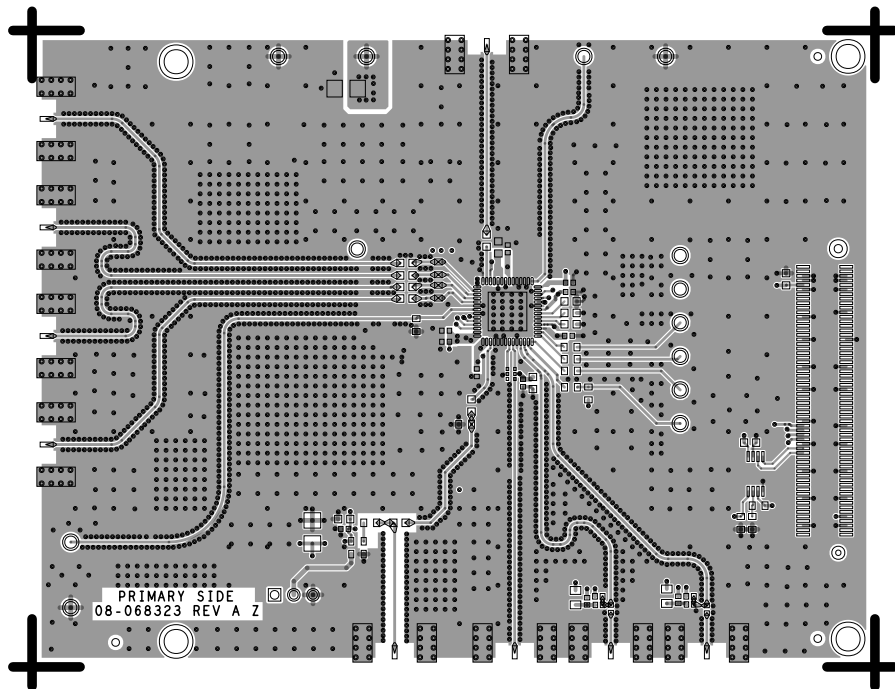
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES .XX -.010 --1/32 -- 2 .XXX -.005 .XXXX -.0050	APPROVAL		DATE	<div> ANALOG DEVICES</div> <div>WWM DIVISION 804 WOBURN STREET WILMINGTON, MA 01887</div> <div>TITLE ASSEMBLY ADRF6850-EVALZ CUSTOMER EVAL BOARD Z</div>			
	TEMPLATE ENGINEER N/A		N/A				
	HARDWARE SERVICES M. VALE		08SEP21				
	HARDWARE SYSTEMS N/A		N/A				
MATERIAL	TEST ENGINEER N/A		N/A	SIZE FSCM NO DRAWING NUMBER REV C 24355 01-068323 A1			
	COMPONENT ENGINEER M. YAN		08SEP21				
	TEST PROCESS N/A		N/A				
	HARDWARE RELEASE K. JABATAN		08SEP21				
FINISH	DESIGNER M. VALE		08SEP21	SCALE 1/1 SHEET 1 OF 2			
	PTD ENGINEER S. CABATAN		08SEP21				
	CHECKER N/A		N/A				
	DO NOT SCALE DWG						



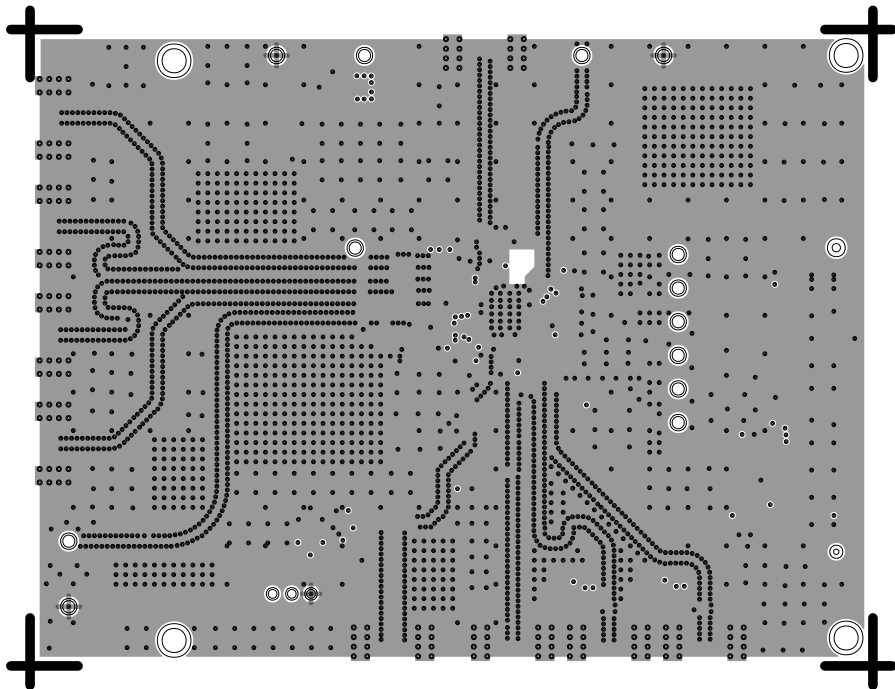
SECONDARY SIDE

<div><div><div></div></div><div><div>ANALOG DEVICES</div></div></div> <div>WWM DIVISION 804 WOBURN STREET WILMINGTON, MA 01887</div>			
SIZE	FSCM NO	DRAWING NUMBER	REV
C	24355	01-068323	A1
SCALE	1 / 1	SHEET 2 OF 2	

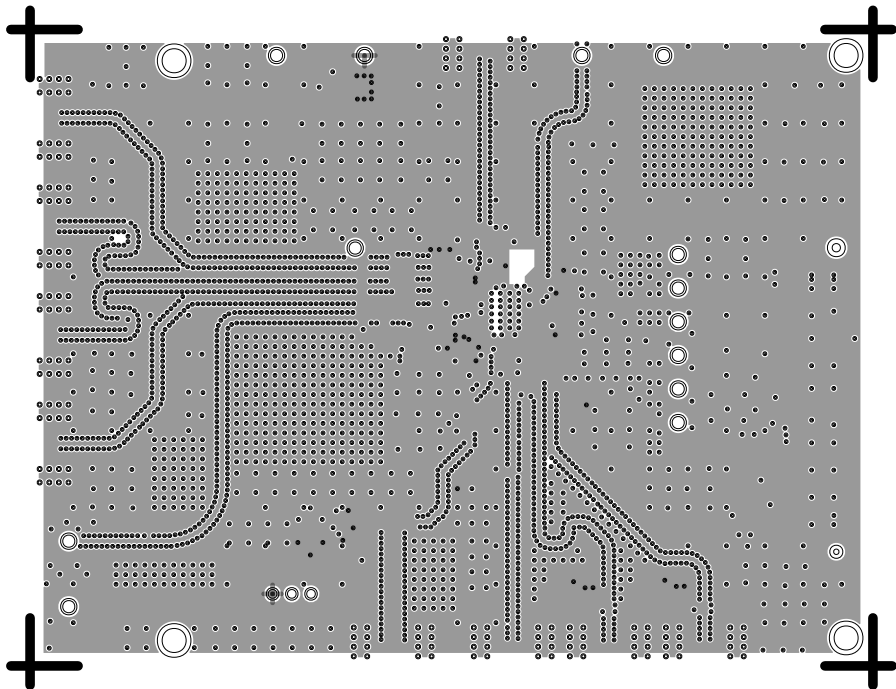
L1 PRIMARY
08-068323-01
REV A



L2 GND
08-068323-07
REV A



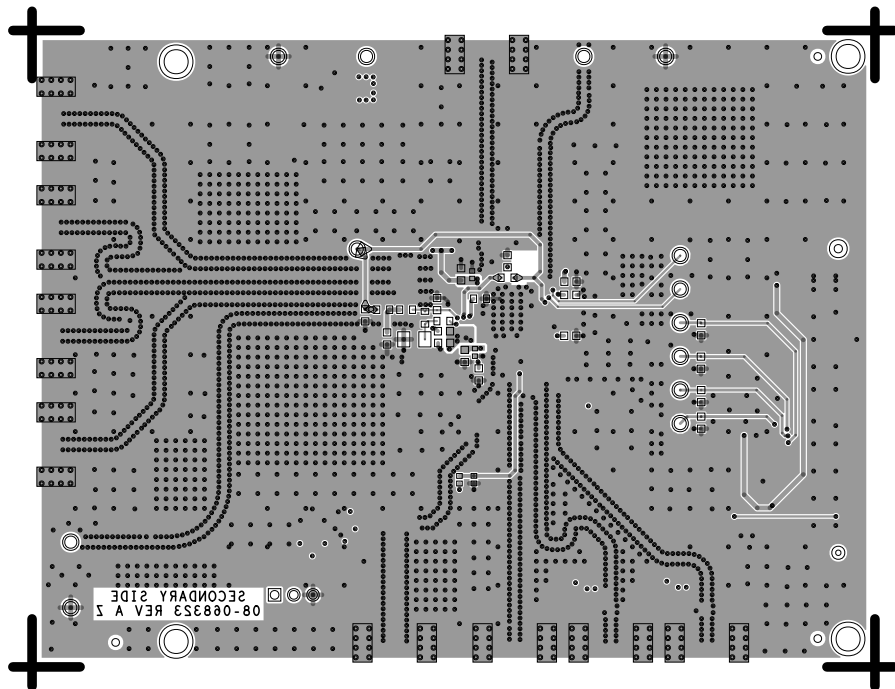
L3 VCC
08-068323-08
REV A



L4 SECONDARY

08-068323-02

REV A



SILKSCREEN PRIMARY

08-068323-03

REV A

J2

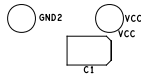
J3

J4

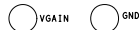
J5

VCOM

GND1



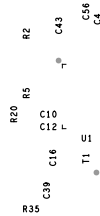
RF IN



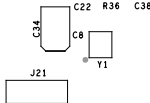
RF OUT



C30
C31
C32
C33

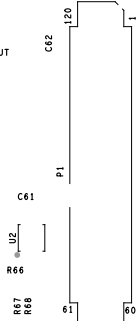
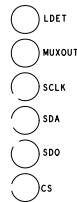


ADRF6850-EVALZ
CUSTOMER EVAL BOARD Z



J7

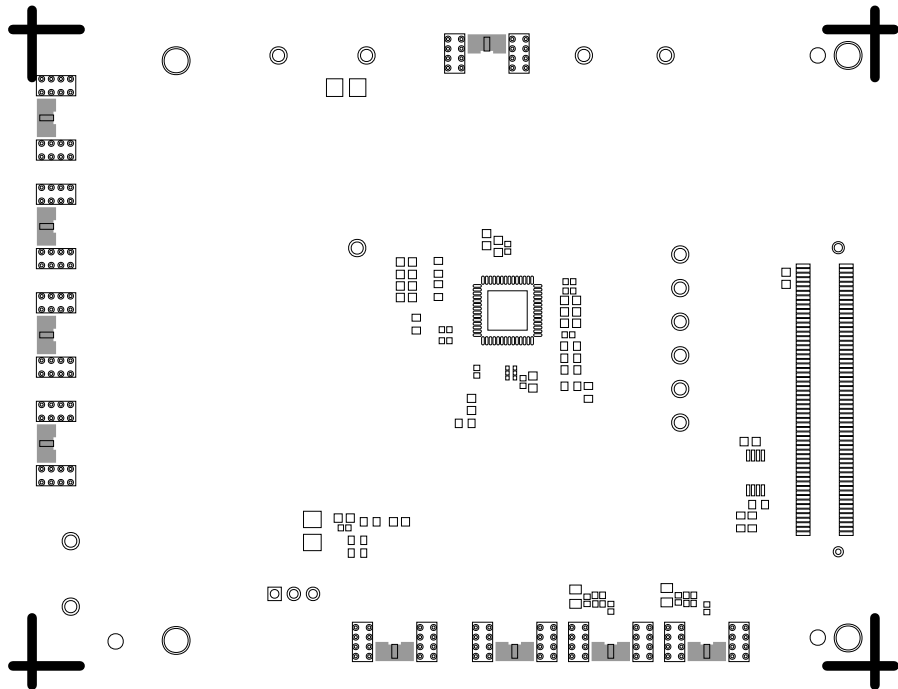
J8
R60
L3
L1
C44
J10
R61
L4
R45
L2
C46
J11



SOLDERMASK PRIMARY

08-068323-04

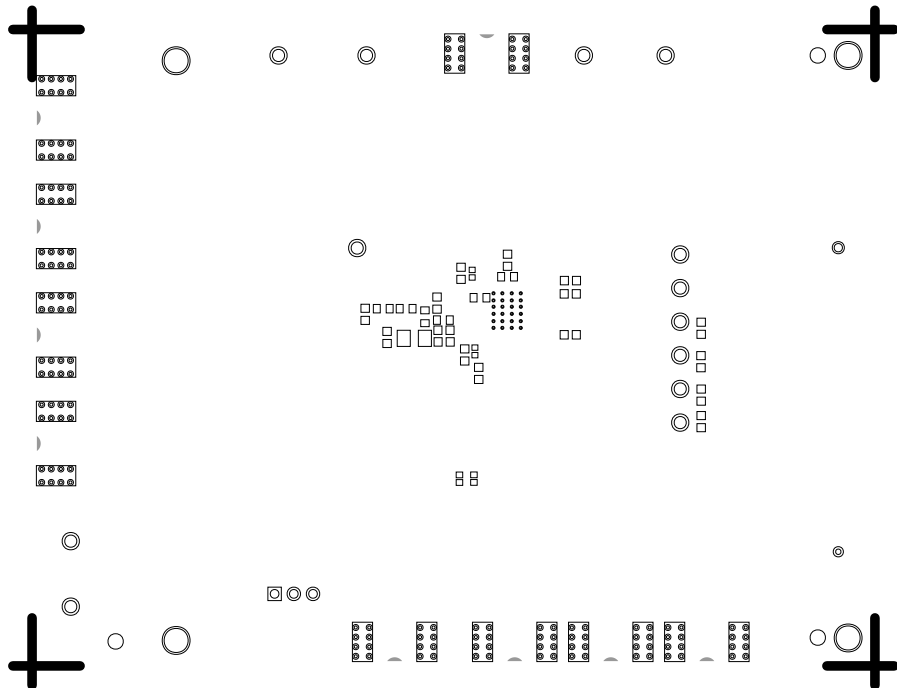
REV A



SOLDERMASK SECONDARY

08-068323-06

REV A



PASTEMASK PRIMARY

08-068323-09

REV A



PASTEMASK SECONDARY

08-068323-10

REV A

