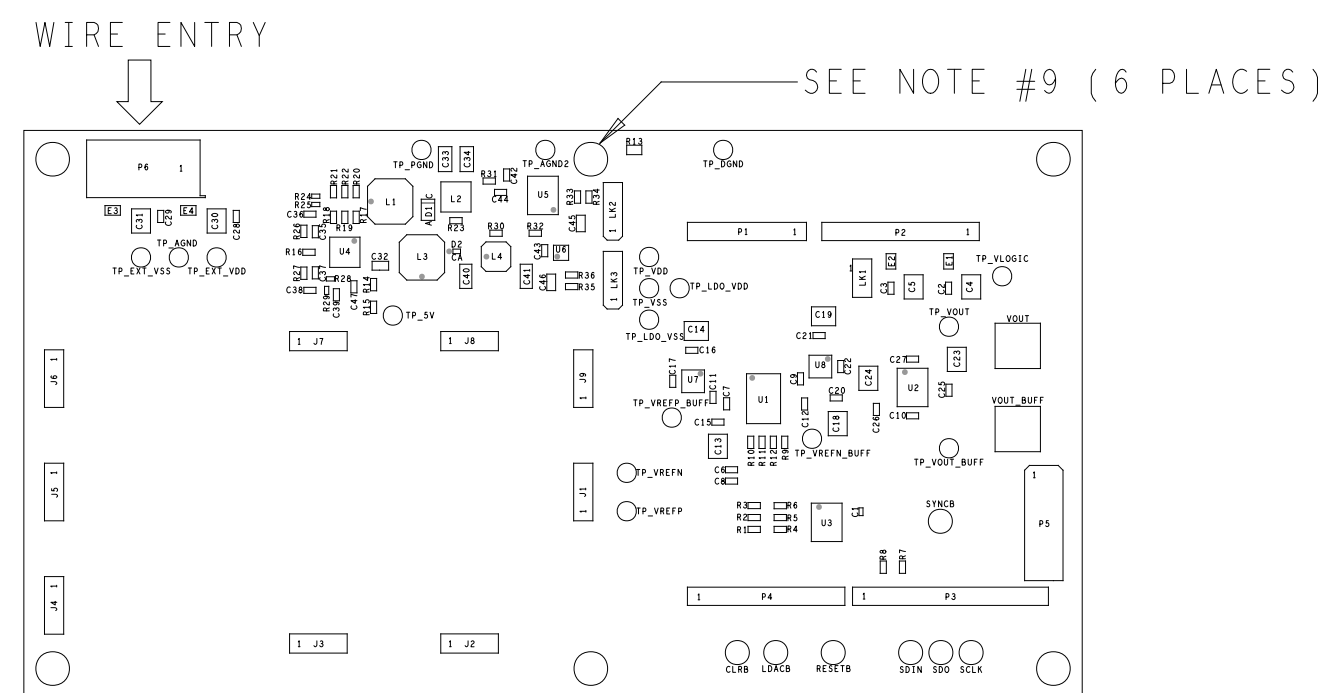



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08JUN22	J. PABALAN
B	ECR-114838	19JUN23	J. PABALAN

ASSEMBLY NOTES:

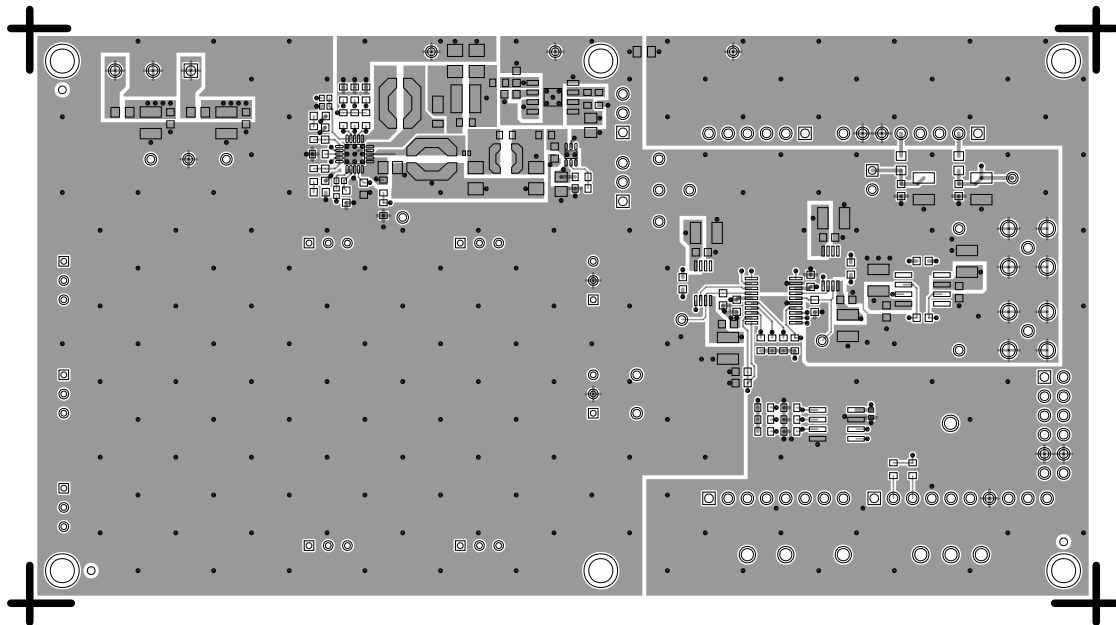
1. BOARD ACCEPTABILITY PER ANALOG DEVICES, INC. SPECIFICATION TST00119 (LATEST REVISION).
2. REPAIRS PER IPC-7711/21(LATEST REVISION) ARE ALLOWED.
3. REPAIRS ARE NOT ALLOWED IN SOLDERMASK FREE AREAS ON EITHER SIDE OF THE BOARD.
4. RoHS COMPLIANCE: ASSEMBLY VENDOR SHOULD ASSURE COMPLIANCE WITH LEAD-FREE AND RoHS PCB ASSEMBLY STANDARDS (EU RoHS DIRECTIVE 2002/95/EC).
5. BOARDS TO BE SHIPPED SINGULATED AFTER ASSEMBLY PROCESS.
6. SMOOTHEN EDGES AND FREE FROM BURRS AFTER DEPANELIZATION PROCESS.
7. DO NOT TRIM/CUT EXCESS TAIL LENGTH FOR P1, P2, P3, AND P4.
8. INSTALL SHUNT CONNECTOR (M031256) TO THE FOLLOWING JUMPERS:
LK1 - INSTALLED
LK2 - PIN 1 AND PIN 2
LK3 - PIN 1 AND PIN 2
9. INSTALL SCREW (M025339) ON PRIMARY SIDE AND STANDOFF (M057696) ON THE SECONDARY SIDE.



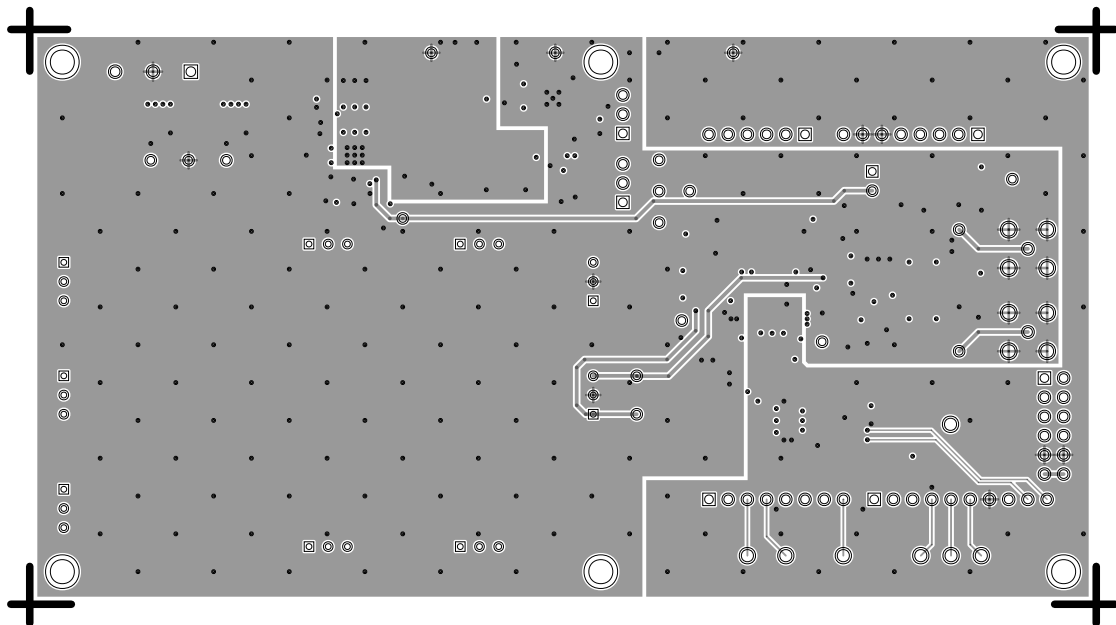
PRIMARY SIDE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM			APPROVAL		DATE		<div>ANALOG DEVICES</div> <div>WWM DIVISION 804 WOBURN STREET WILMINGTON, MA 01887</div>		
TOLERANCES			TEMPLATE ENGINEER N/A		N/A				
DECIMALS	FRACTIONS	ANGLES	HARDWARE SERVICES M. VALE		08JUN22		TITLE ASSEMBLY EVAL - AD5781ARDZ CUSTOMER EVALUATION Z		
.XX -- .010	-- 1/32	-- 2	HARDWARE SYSTEMS N/A		N/A				
.XXX -- .005			TEST ENGINEER N/A		N/A				
.XXXX -- .0050			COMPONENT ENGINEER A. GIRON		08JUN22				
MATERIAL			TEST PROCESS N/A		N/A				
			HARDWARE RELEASE K. JABATAN		08JUN22		SIZE FSCM NO DRAWING NUMBER REV		
FINISH			DESIGNER R. GAVINO		08JUN22				
			PTD ENGINEER J. PABALAN		08JUN22				
			CHECKER N/A		N/A				
DO NOT SCALE DWG			SCALE			1/1			

L1 PRIMARY
08-070775-01
REV B



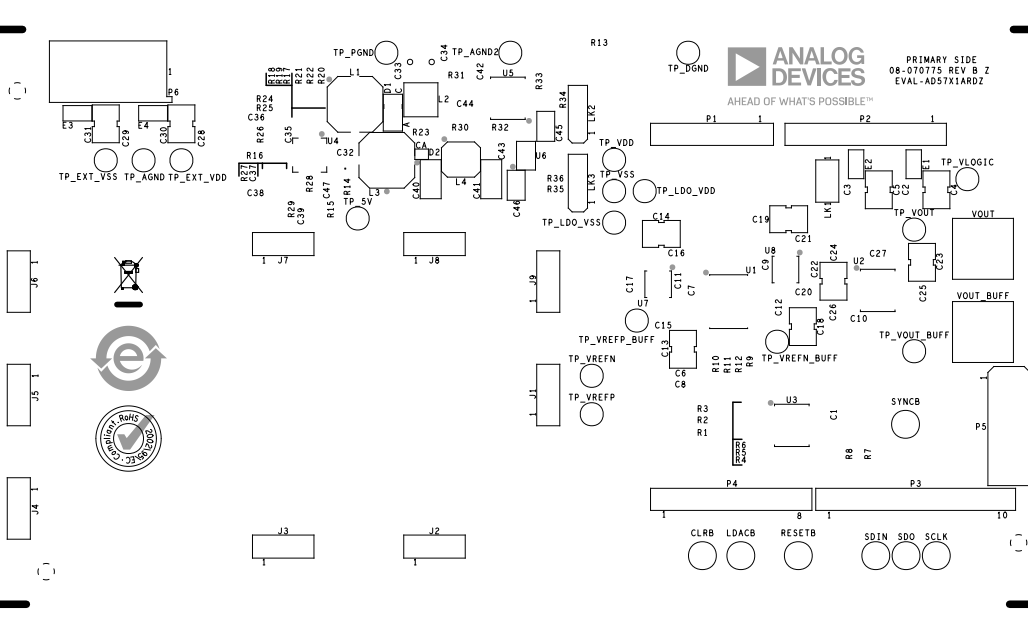
L6 SECONDARY
08-070775-02
REV B



SILKSCREEN PRIMARY

08-070775-03

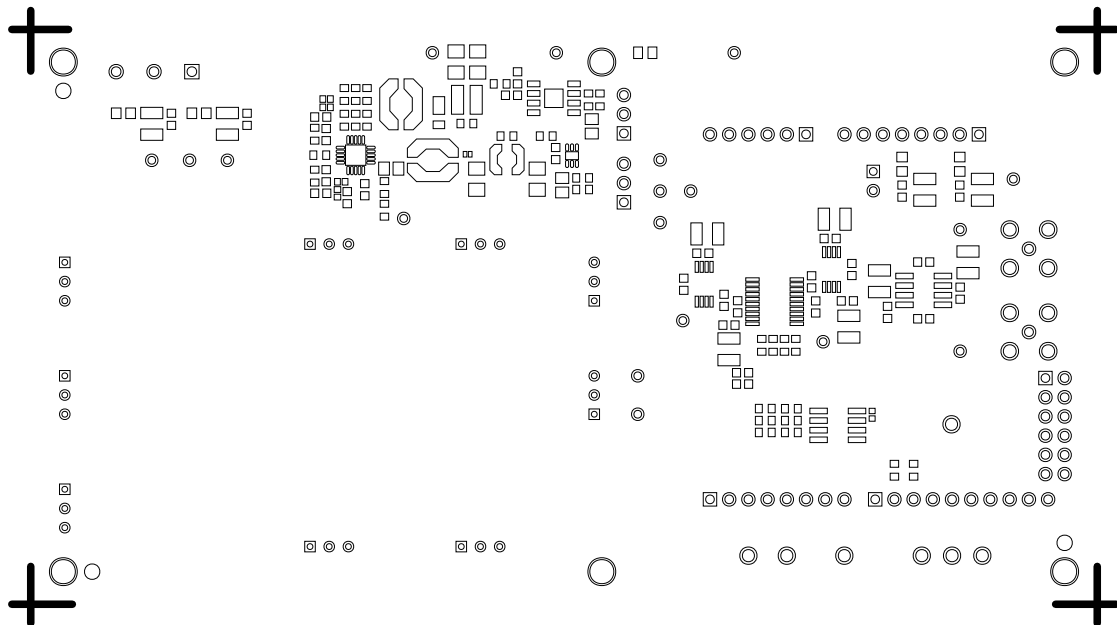
REV B



SOLDERMASK PRIMARY

08-070775-04

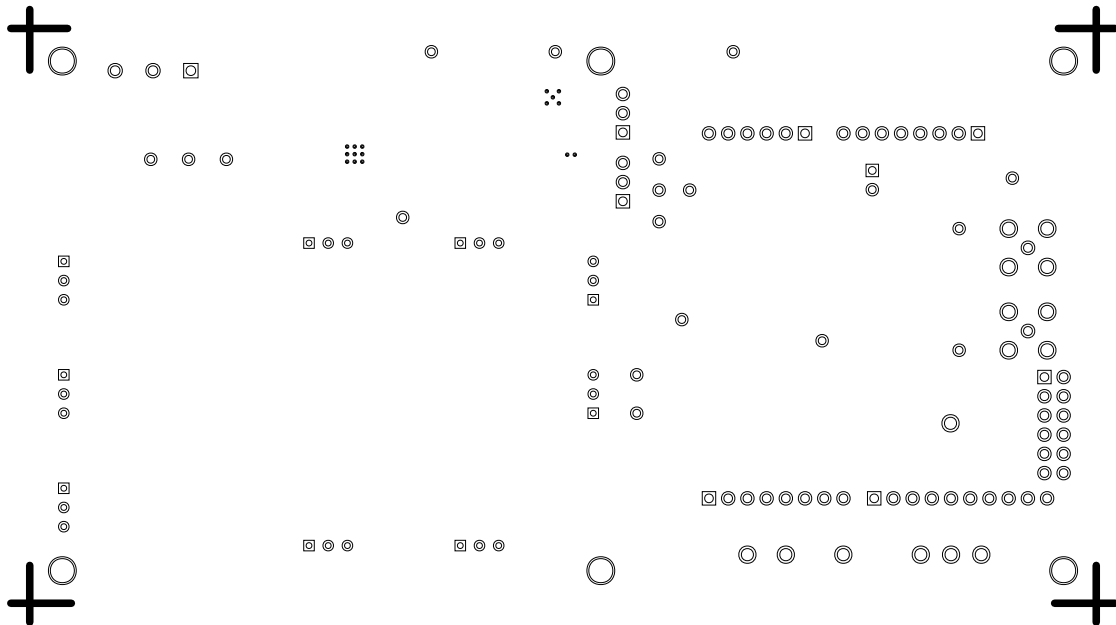
REV B



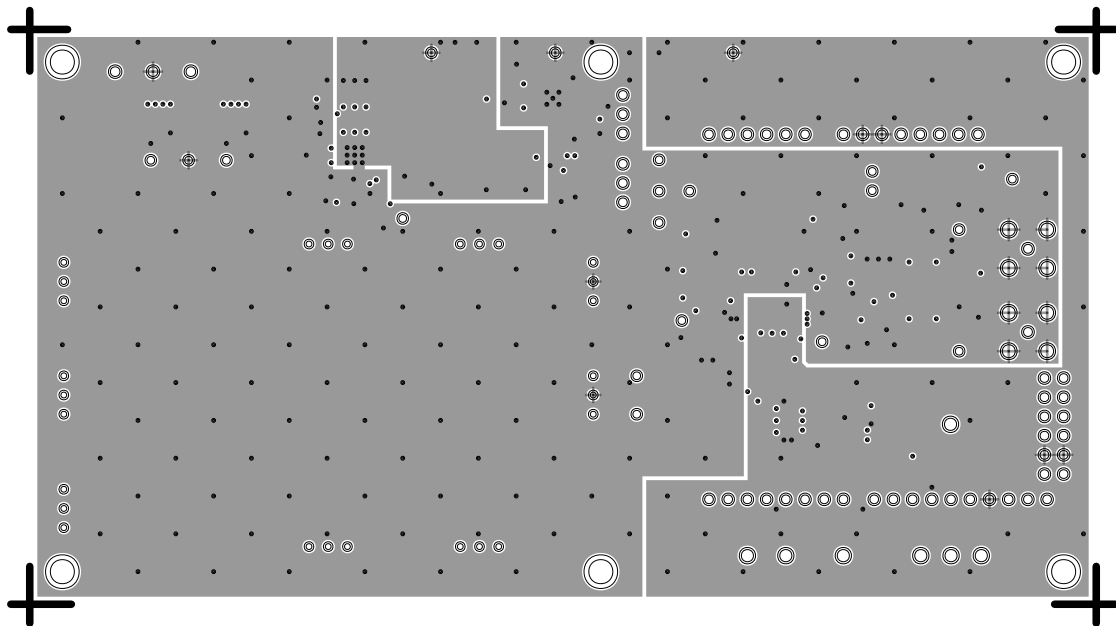
SOLDERMASK SECONDARY

08-070775-05

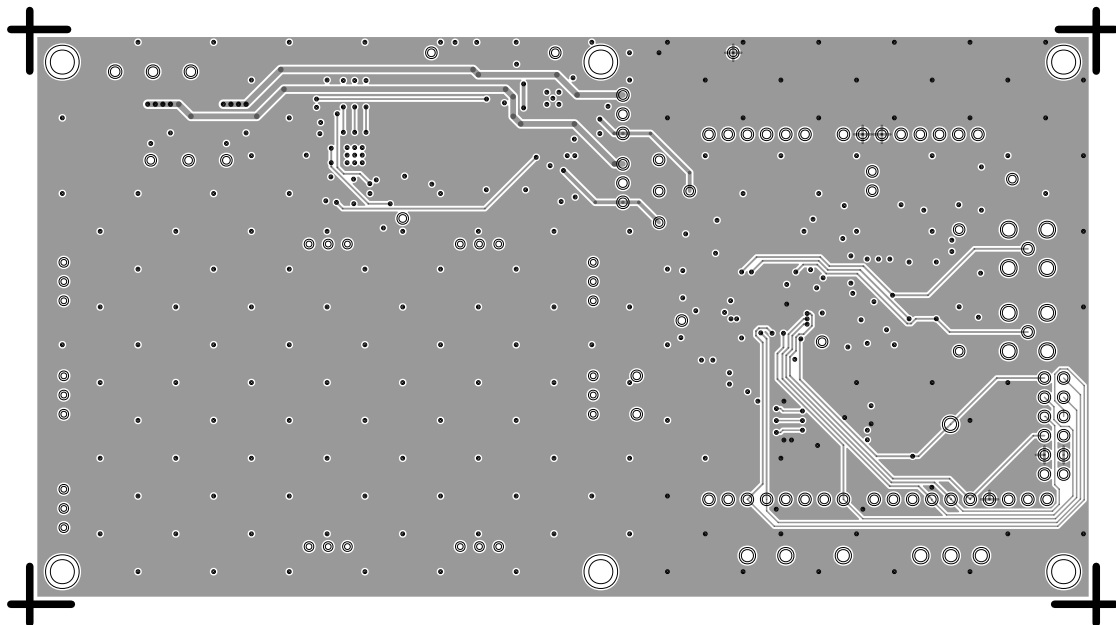
REV B



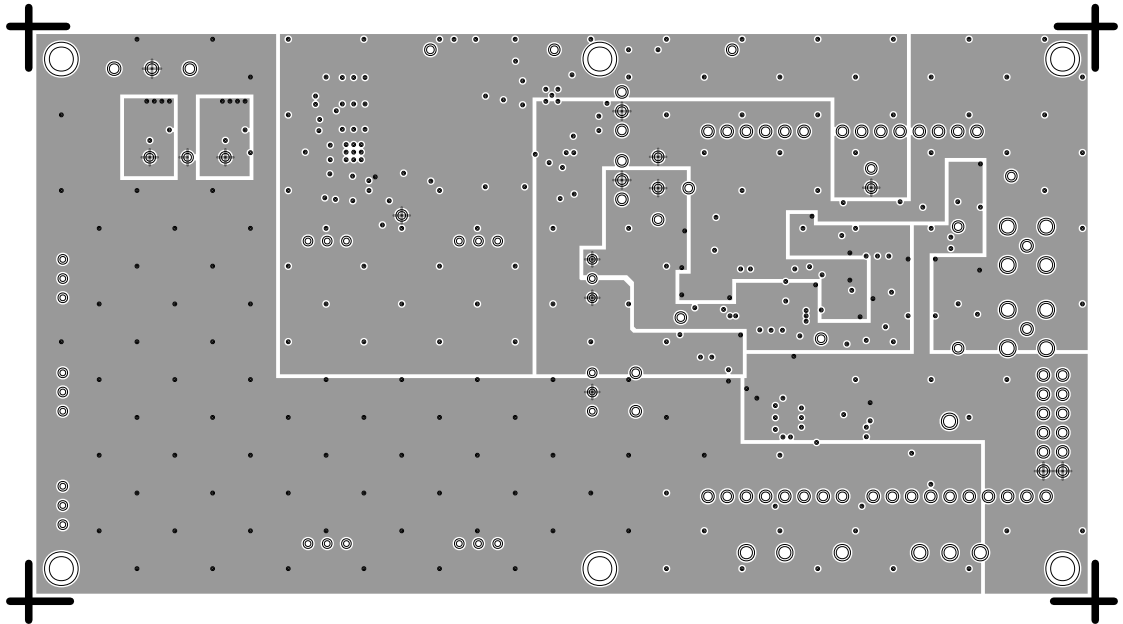
L2 GND
08-070775-06
REV B



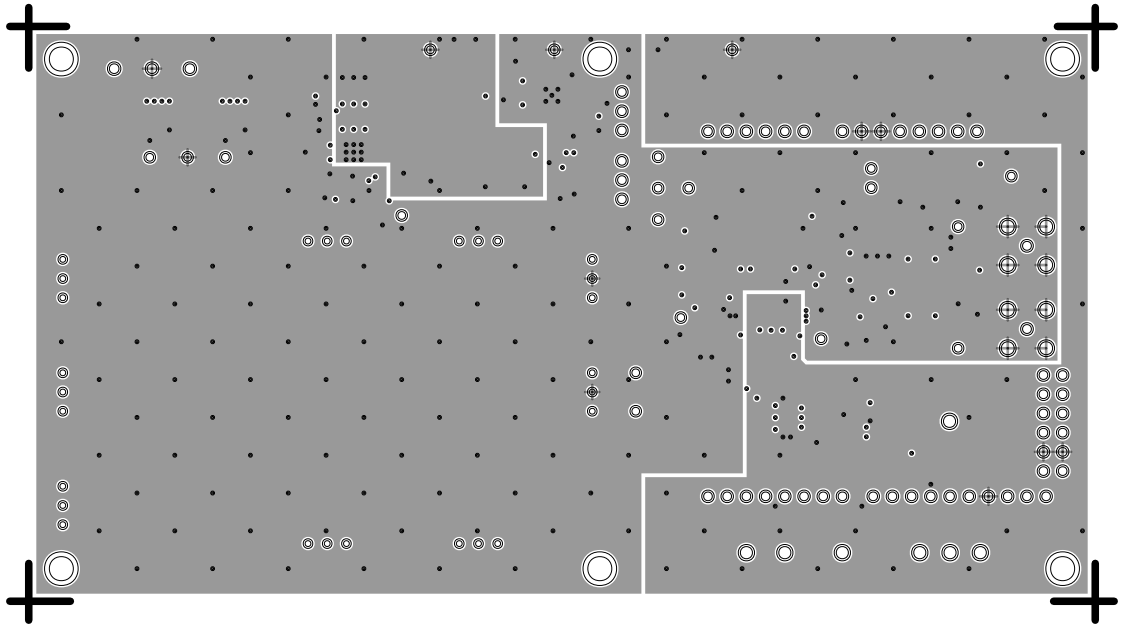
L3 SIG
08-070775-07
REV B



L4 PWR
08-070775-08
REV B



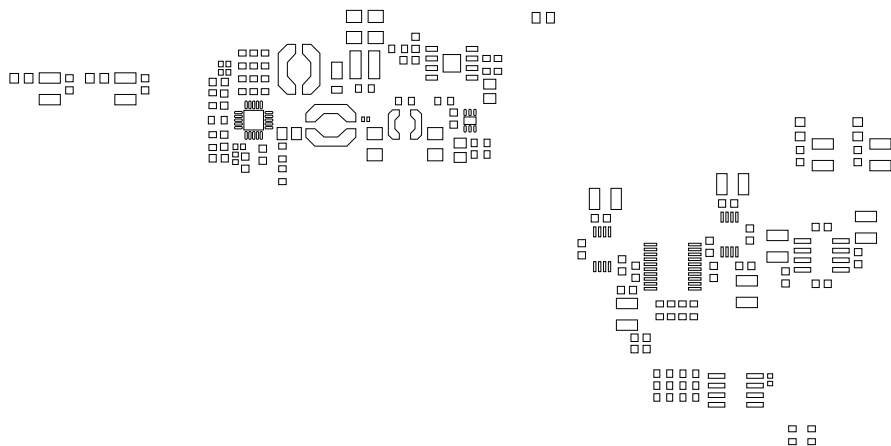
L5 GND
08-070775-09
REV B

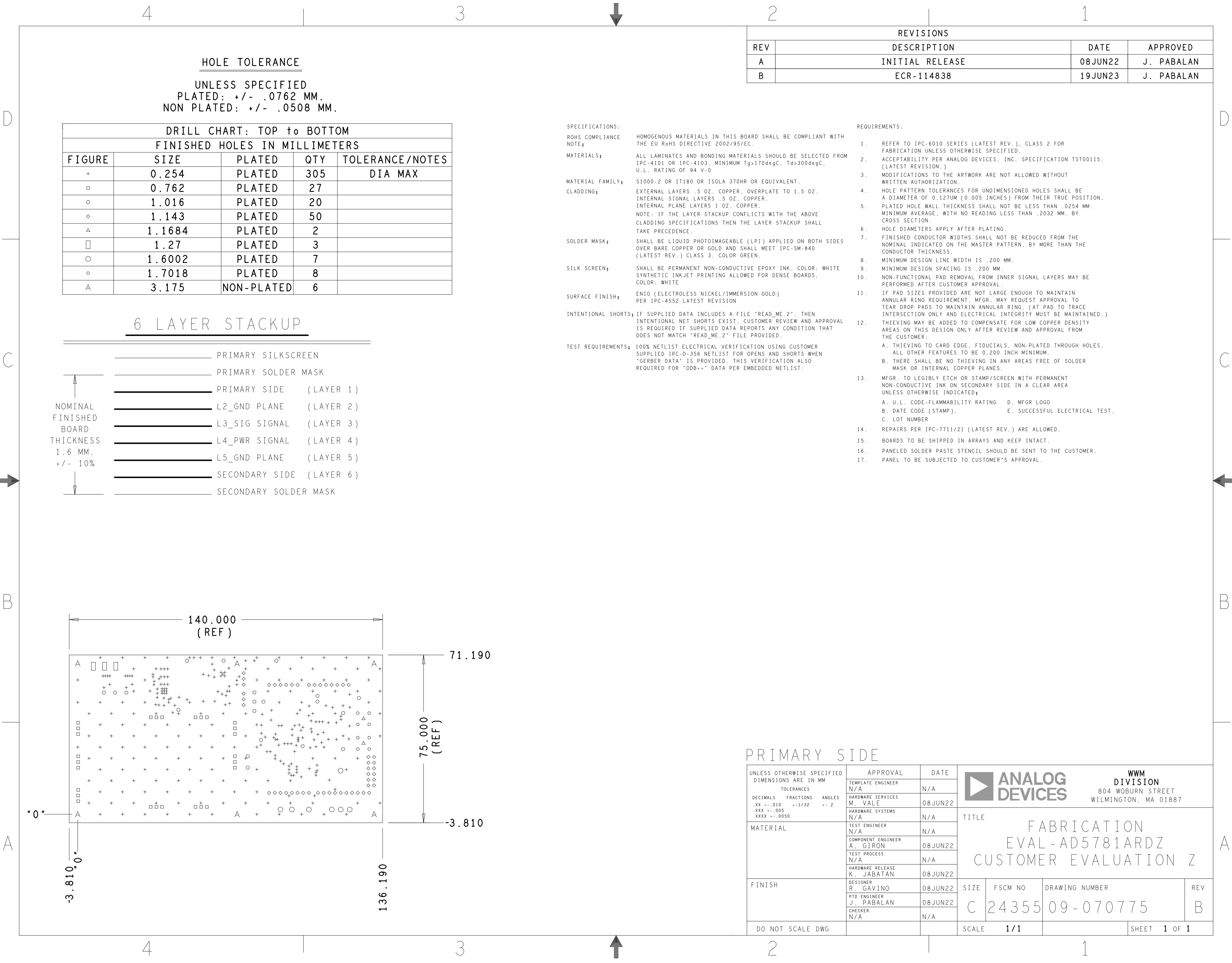


PASTEMASK PRIMARY

08-070775-10

REV B



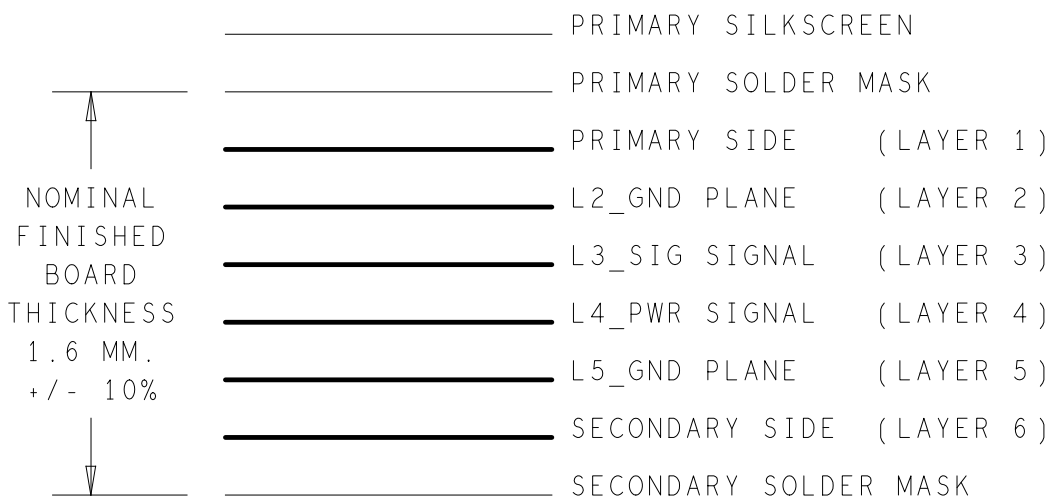


HOLE TOLERANCE

UNLESS SPECIFIED
PLATED: +/- .0762 MM.
NON PLATED: +/- .0508 MM.

DRILL CHART: TOP to BOTTOM				
FINISHED HOLES IN MILLIMETERS				
FIGURE	SIZE	PLATED	QTY	TOLERANCE/NOTES
+	0.254	PLATED	305	DIA MAX
□	0.762	PLATED	27	
○	1.016	PLATED	20	
◇	1.143	PLATED	50	
△	1.1684	PLATED	2	
□	1.27	PLATED	3	
○	1.6002	PLATED	7	
○	1.7018	PLATED	8	
A	3.175	NON-PLATED	6	

6 LAYER STACKUP



SPECIFICATIONS:

ROHS COMPLIANCE NOTE;
MATERIALS;
MATERIAL FAMILY;
CLADDING;
SOLDER MASK;
SILK SCREEN;
SURFACE FINISH;
INTENTIONAL SHORTS;
TEST REQUIREMENTS;

HOMOGENOUS MATERIALS IN THIS BOARD SHALL BE COMPLIANT WITH THE EU RoHS DIRECTIVE 2002/95/EC.

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

S1000-2 OR IT180 OR ISOLA 370HR OR EQUIVALENT.

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

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

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.

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

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


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.

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 0.127UM (0.005 INCHES) FROM THEIR TRUE POSITION. PLATED HOLE WALL THICKNESS SHALL NOT BE LESS THAN .0254 MM. MINIMUM AVERAGE, WITH NO READING LESS THAN .2032 MM. 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 .200 MM.
- MINIMUM DESIGN SPACING IS .200 MM.
- 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:
 - A. THIEVING TO CARD EDGE, FIDUCIALS, NON-PLATED THROUGH HOLES. ALL OTHER FEATURES TO BE 0.200 INCH MINIMUM.
 - B. 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:
 - A. U.L. CODE-FLAMMABILITY RATING
 - B. DATE CODE (STAMP).
 - C. LOT NUMBER
 - D. MFR LOGO
 - E. SUCCESSFUL ELECTRICAL TEST.
- REPAIRS PER IPC-7711/21 (LATEST REV.) ARE ALLOWED.
- BOARDS TO BE SHIPPED IN ARRAYS AND KEEP INTACT.
- PANELED SOLDER PASTE STENCIL SHOULD BE SENT TO THE CUSTOMER.
- PANEL TO BE SUBJECTED TO CUSTOMER'S APPROVAL.

PRIMARY SIDE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM TOLERANCES DECIMALS FRACTIONS ANGLES .XX -.010 --1/32 -- 2 .XXX -.005 .XXXX -.0050	APPROVAL	DATE	<div><div>WWM DIVISION 804 WOBURN STREET WILMINGTON, MA 01887</div></div>			
	TEMPLATE ENGINEER N/A	N/A				
MATERIAL	HARDWARE SERVICES M. VALE	08JUN22	TITLE FABRICATION EVAL - AD5781ARDZ CUSTOMER EVALUATION Z			
	HARDWARE SYSTEMS N/A	N/A				
FINISH	TEST ENGINEER N/A	N/A	SIZE C	FSCM NO 24355	DRAWING NUMBER 09-070775	REV B
	COMPONENT ENGINEER A. GIRON	08JUN22				
	TEST PROCESS N/A	N/A				
	HARDWARE RELEASE K. JABATAN	08JUN22				
DO NOT SCALE DWG	DESIGNER R. GAVINO	08JUN22	SCALE 1/1	SHEET 1 OF 1		
	PTD ENGINEER J. PABALAN	08JUN22				
	CHECKER N/A	N/A				