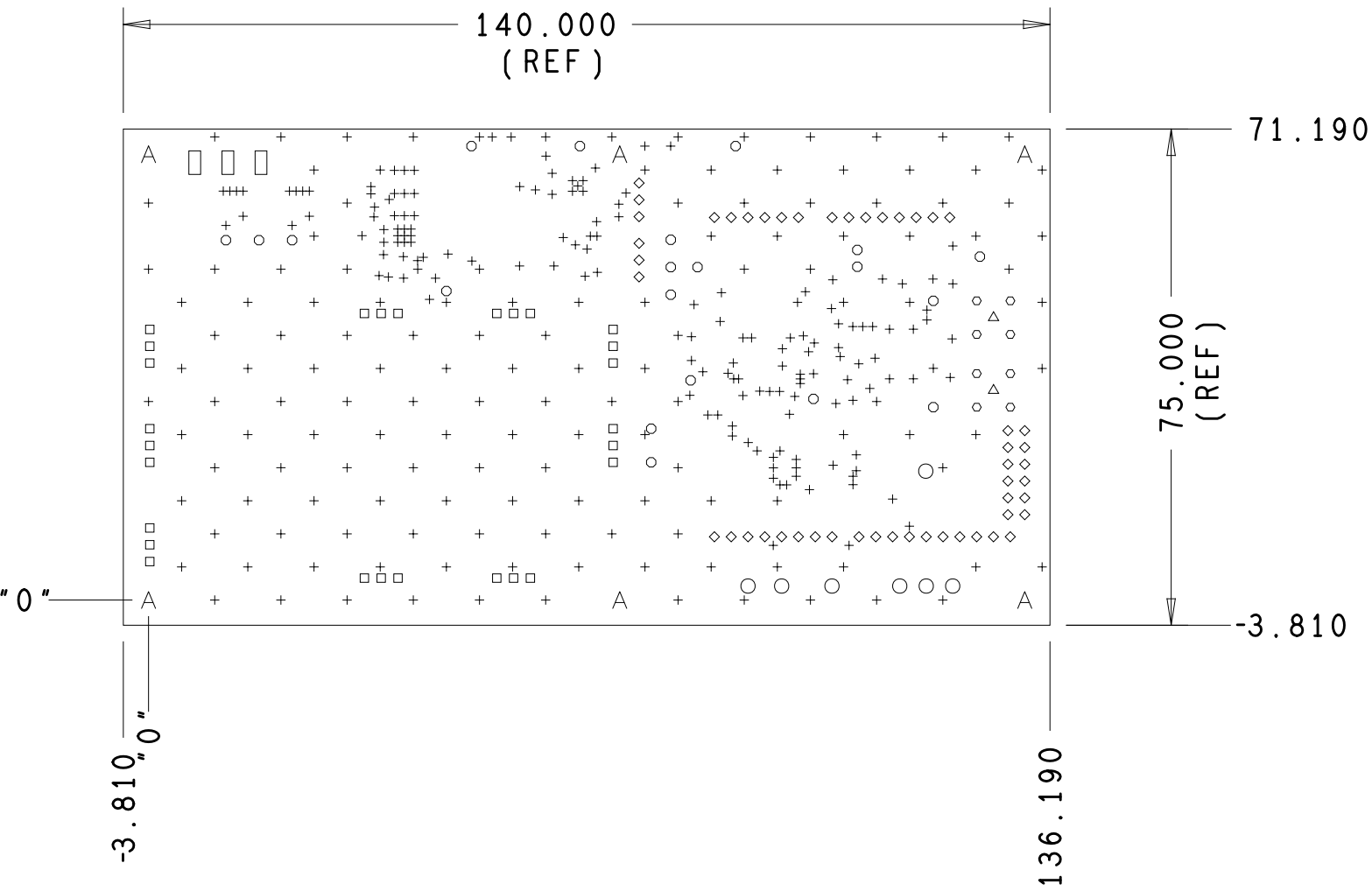
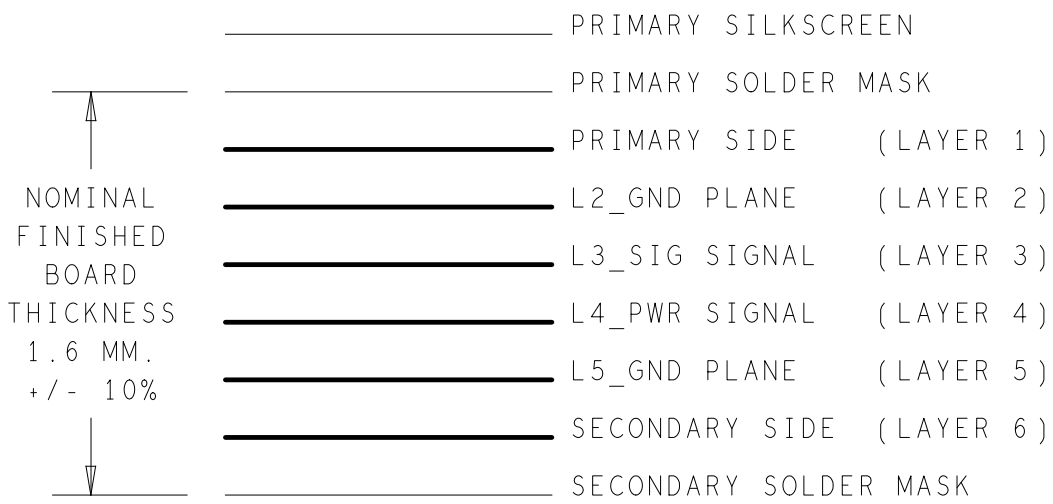


HOLE TOLERANCE

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



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

SPECIFICATIONS:

ROHS COMPLIANCE NOTE;

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;

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.

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 0.127UM (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:
  - 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 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				
DO NOT SCALE DWG	TEST PROCESS N/A	N/A	SCALE 1/1	SHEET 1 OF 1		
	HARDWARE RELEASE K. JABATAN	08JUN22				
	DESIGNER R. GAVINO	08JUN22				
	PTD ENGINEER J. PABALAN	08JUN22				
	CHECKER N/A	N/A				