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: ROGERS 8 MILS 4003C AND ISOLA 370HR

CLADDING: 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.

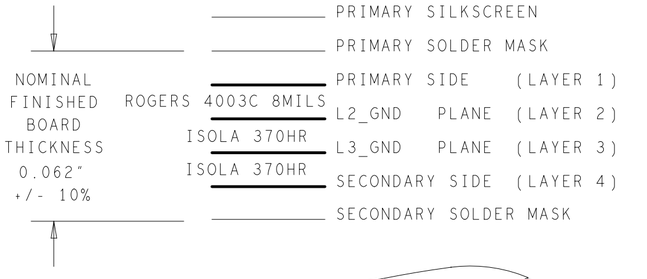
TEST REQUIREMENTS: 100% NETLIST ELECTRICAL VERIFICATION USING CUSTOMER SUPPLIED IPC-D-356 NETLIST FOR OPENS AND SHORTS WHEN "GERBER DATA" IS PROVIDED. THIS VERIFICATION ALSO REQUIRED FOR "ODB++" DATA PER EMBEDDED NETLIST.

HOLE TOLERANCE

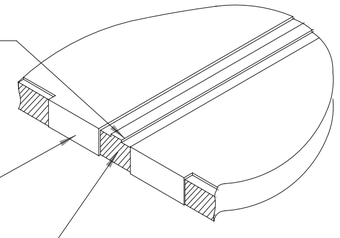
UNLESS SPECIFIED
PLATED: +/- 3 MILS
~~NON-PLATED: +/- 2 MILS~~

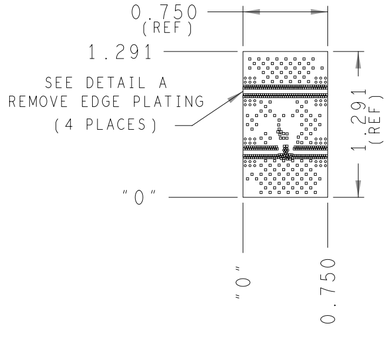
DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	PLATED	QTY	TOLERANCE/NOTES
◦	8.0	PLATED	460	DIA MAX / SEE NOTE 18
◦	8.01	PLATED	10	DIA MAX / SEE NOTE 15
◦	14.0	PLATED	48	DIA MAX / SEE NOTE 18

4 LAYER STACKUP



CLIP BACK THE CENTER CONDUCTOR WITHIN 5 MILS FROM THE EDGE OF THE BOARD.





EDGE PLATING NOT ALLOWED IN CENTER CONDUCTOR AND GAP AREA. EDGE PLATING SHOULD BE IN LINE WITH TOP ETCH.

EDGE PLATING AND PCB ETCH ON RF CONDUCTOR TRACE SHOULD BE FLUSHED +/- .002". NO BUMPS.

DETAIL A

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	17JUN21	P.COCHANGCO

REQUIREMENTS:

1. REFER TO IPC-6010 SERIES (LATEST REV.), CLASS 2 FOR FABRICATION UNLESS OTHERWISE SPECIFIED.
2. ACCEPTABILITY PER ANALOG DEVICES, INC. SPECIFICATION TST00115, (LATEST REVISION.)
3. MODIFICATIONS TO THE ARTWORK ARE NOT ALLOWED WITHOUT WRITTEN AUTHORIZATION.
4. HOLE PATTERN TOLERANCES FOR UNDIMENSIONED HOLES SHALL BE A DIAMETER OF 0.005 INCHES FROM THEIR TRUE POSITION.
5. PLATED HOLE WALL THICKNESS SHALL NOT BE LESS THAN 0.001 INCH MINIMUM AVERAGE, WITH NO READING LESS THAN .0008 BY CROSS SECTION.
6. HOLE DIAMETERS APPLY AFTER PLATING.
7. FINISHED CONDUCTOR WIDTHS SHALL NOT BE REDUCED FROM THE NOMINAL INDICATED ON THE MASTER PATTERN, BY MORE THAN THE CONDUCTOR THICKNESS.
8. MINIMUM DESIGN LINE WIDTH IS 8 MILS.
9. MINIMUM DESIGN SPACING IS 7 MILS.
10. ~~NON-FUNCTIONAL PAD REMOVAL FROM INNER SIGNAL LAYERS MAY BE PERFORMED AFTER CUSTOMER APPROVAL.~~
11. IF PAD SIZES PROVIDED ARE NOT LARGE ENOUGH TO MAINTAIN ANNULAR RING REQUIREMENT, MFGR. MAY REQUEST APPROVAL TO TEAR DROP PADS TO MAINTAIN ANNULAR RING. (AT PAD TO TRACE INTERSECTION ONLY AND ELECTRICAL INTEGRITY MUST BE MAINTAINED.)
12. 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.
13. MFGR. 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. MFGR LOGO
    E. SUCCESSFUL ELECTRICAL TEST.
14. REPAIRS PER IPC-7711/21 (LATEST REV.) ARE ALLOWED.
15. INDICATED VIAS FILLED WITH NON-CONDUCTIVE EPOXY AND PLATED OVER. FLUSH TO .003" BELOW SUFACE BOTH SIDES PRIOR TO FINAL PLATING.
16. CRITICAL LINE WIDTH = 16 MILS +/- 1 MILS ADJUST PROCESS TO ACHIEVE WIDTH
17. BOARD TO HAVE EDGE PLATING AT CONNECTOR EDGE. ALL 4 METAL LAYERS MUST CONNECT.
18. THRU VIAS FILLED WITH NON-CONDUCTIVE EPOXY AND PLATED OVER

PRIMARY SIDE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES .XX +-.010 +-1/32 +- 2 .XXX +-.005 .XXXX +-.0050	APPROVAL	DATE
	TEMPLATE ENGINEER N/A	N/A
	HARDWARE SERVICES M.VALE	17JUN21
	HARDWARE SYSTEMS N/A	N/A
MATERIAL	TEST ENGINEER N/A	N/A
	COMPONENT ENGINEER M.YAN	17JUN21
	TEST PROCESS N/A	N/A
	HARDWARE RELEASE K.JABATAN	17JUN21
FINISH	DESIGNER S.NODADO	17JUN21
	PTD ENGINEER P.COCHANGCO	17JUN21
	CHECKER N/A	N/A
DO NOT SCALE DWG		

ANALOG DEVICES
WWM DIVISION
804 WOBURN STREET
WILMINGTON, MA 01887

TITLE
FABRICATION
ADL8107
CUSTOMER EVALUATION Z

SIZE	FSCM NO	DRAWING NUMBER	REV
C	24355	09-068109	A

SCALE 1/1 SHEET 1 OF 1

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	17JUN21	P.COCHANGCO

ASSEMBLY NOTES:

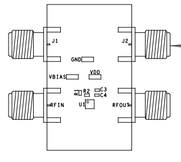
1. BOARD ACCEPTABILITY PER ANALOG DEVICES, INC. SPECIFICATION TST00119 (LATEST REVISION).

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. ATTACH TO PCB WITH CENTER PIN ON TOP SIDE TRACE. MANUALLY DISPENSE SOLDER TO CENTER PIN AND GROUND LEADS, TOP AND BOTTOM. AFTER REFLOW, SOLDER MUST JOIN CONNECTOR AND PCB EDGE.



SEE NOTE#5
(4 PLACES)

PRIMARY SIDE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES .XX +-.010 +-1/32 +- 2 .XXX +-.005 .XXXX +-.0050	APPROVAL	DATE
	TEMPLATE ENGINEER N/A	N/A
	HARDWARE SERVICES M.VALE	17JUN21
	HARDWARE SYSTEMS N/A	N/A
MATERIAL	TEST ENGINEER N/A	N/A
	COMPONENT ENGINEER M.YAN	17JUN21
	TEST PROCESS N/A	N/A
	HARDWARE RELEASE K.JABATAN	17JUN21
FINISH	DESIGNER S.NODADO	17JUN21
	PTD ENGINEER P.COCHANGCO	17JUN21
	CHECKER N/A	N/A
DO NOT SCALE DWG		

ANALOG DEVICES

WWM
DIVISION
804 WOBURN STREET
WILMINGTON, MA 01887

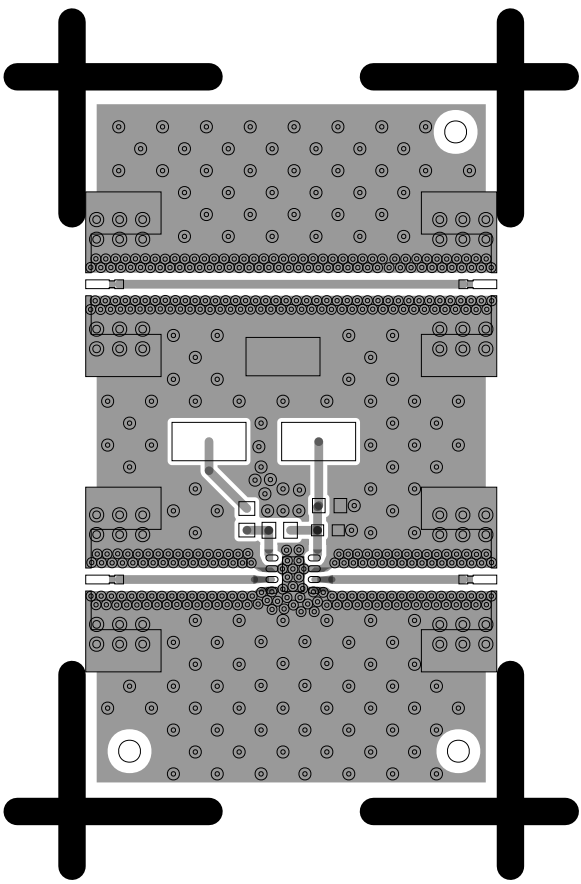
TITLE

ASSEMBLY
ADL8107
CUSTOMER EVALUATION Z

SIZE	FSCM NO	DRAWING NUMBER	REV
C	24355	01-068109	A

SCALE 1/1 SHEET 1 OF 1

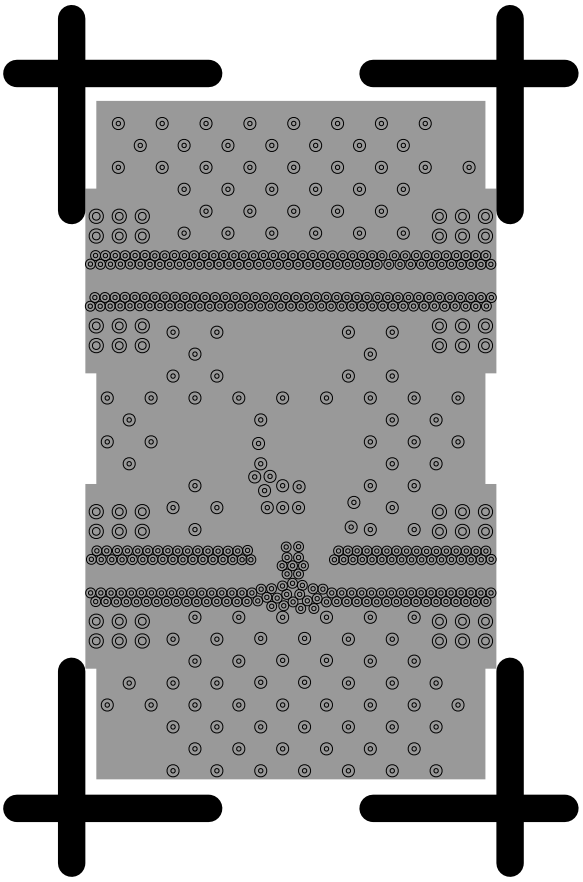
L1 PRIMARY
08-068109-01
REV A



L2 GND

08-068109-06

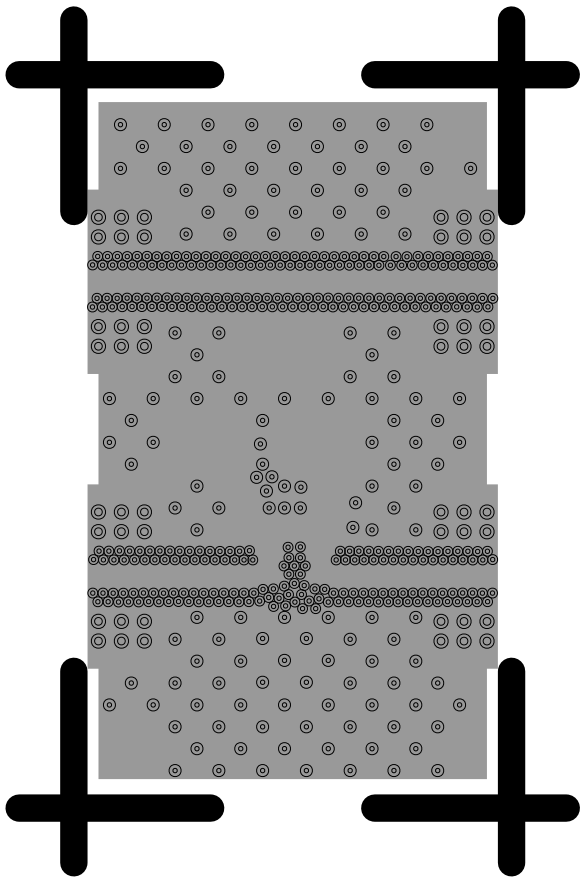
REV A



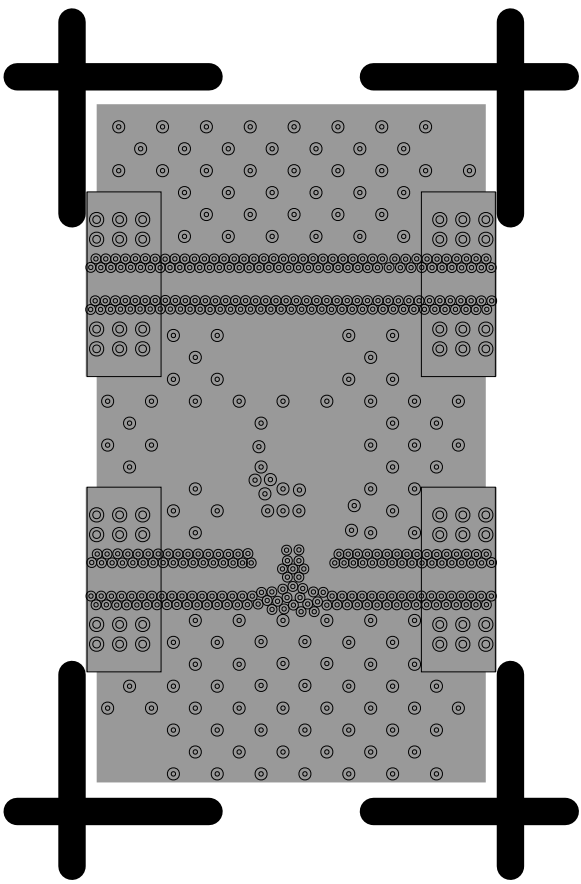
L3 GND

08-068109-07

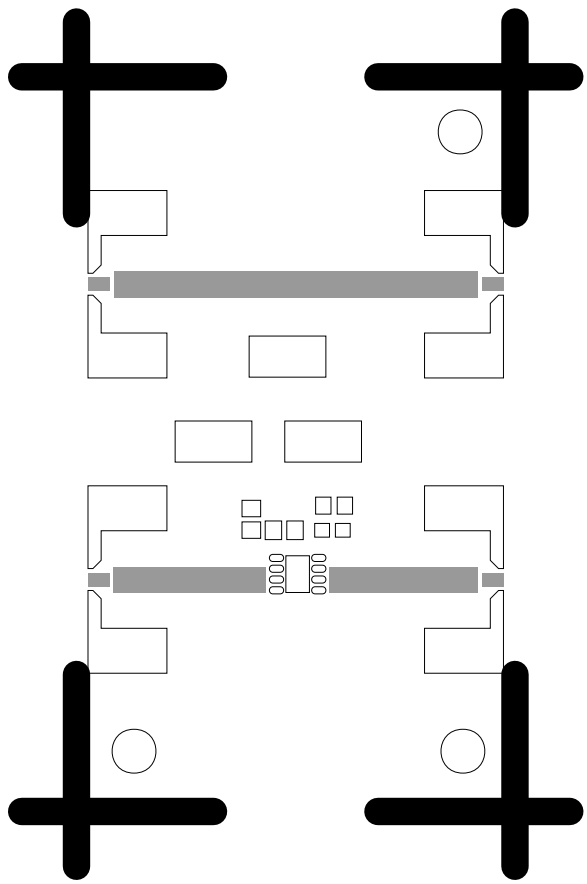
REV A



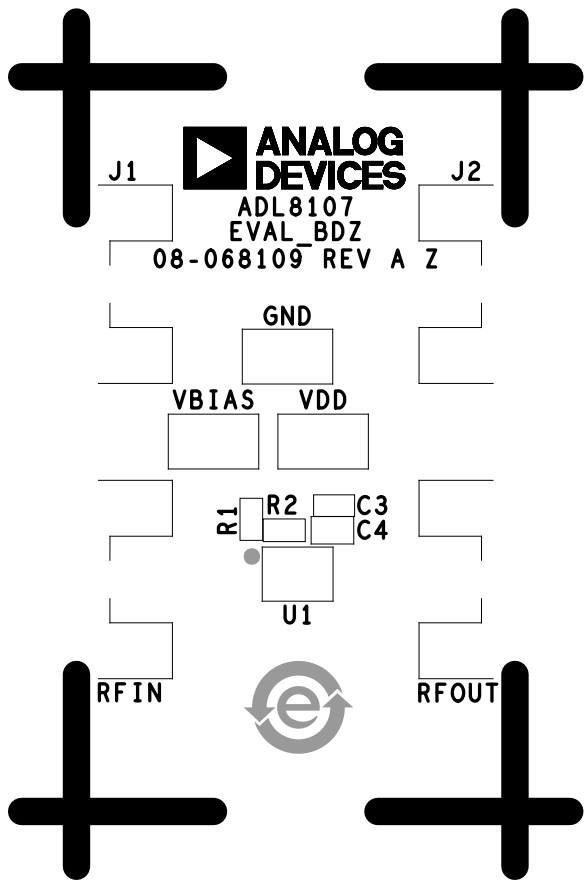
L4 SECONDARY
08-068109-02
REV A



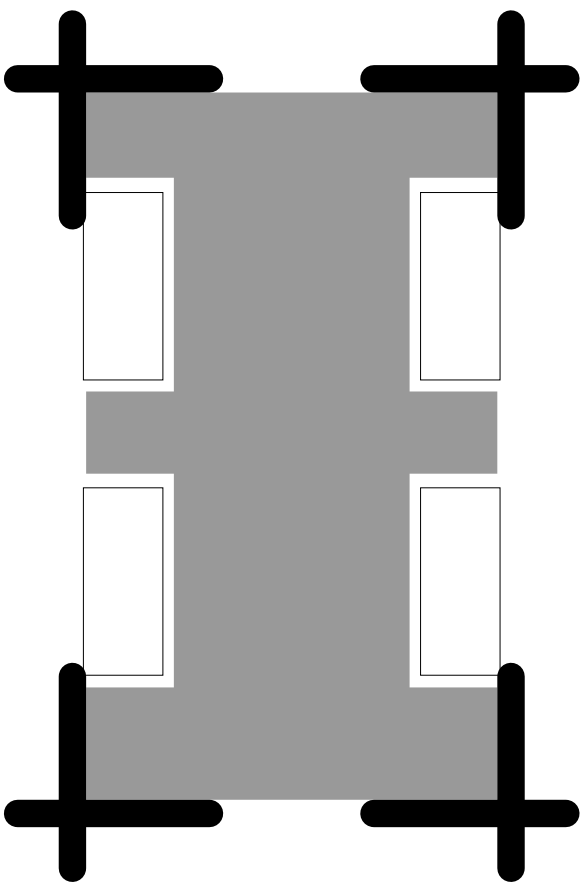
SOLDERMASK PRIMARY
08-068109-04
REV A



SILKSCREEN PRIMARY
08-068109-03
REV A



SOLDERMASK SECONDARY
08-068109-05
REV A



PASTEMASK PRIMARY
08-068109-08
REV A