

4

3

2

1

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	15AUG20	T. CABILDO
B	CHANGES PER ECR-103897	03AUG21	Z. ARCEO

D

D

C

C

B

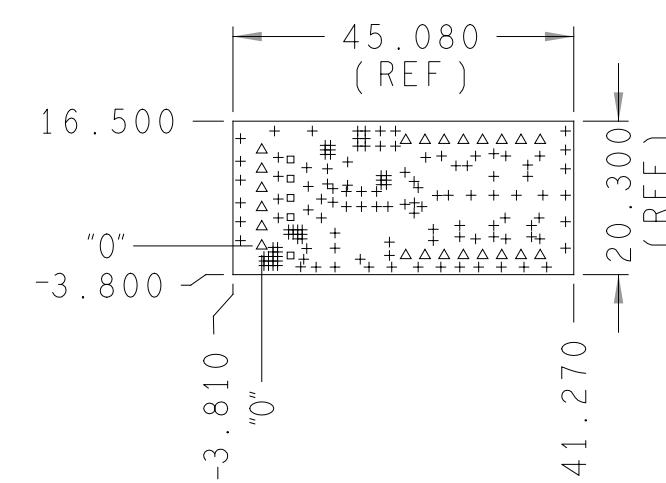
B

B

B

A

A



HOLE TOLERANCE

UNLESS SPECIFIED
PLATED: +/- 0.0762MM

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILLIMETERS				
FIGURE	SIZE	PLATED	QTY	TOLERANCE/NOTES
+	0.254	PLATED	140	DIA MAX
□	0.889	PLATED	5	
△	1.143	PLATED	22	

PRIMARY SIDE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM TOLERANCES DECIMALS FRACTIONS ANGLES .XX254 .1/32 .2 .XXX127 .XXXX1270	APPROVAL	DATE	WWM DIVISION 804 WOBURN STREET WILMINGTON, MA 01887		
MATERIAL	TEMPLATE ENGINEER N/A	N/A	ANALOG DEVICES TITLE FABRICATION EVAL-CN0552-PMDZ CUSTOMER EVALUATION Z		
	HARDWARE SERVICES M. VALE	15AUG20			
	HARDWARE SYSTEMS N/A	N/A			
	TEST ENGINEER N/A	N/A			
FINISH	COMPONENT ENGINEER A. CAULAN	15AUG20	DESIGNER M. NICOPIOR 15AUG20 PTD ENGINEER T. CABILDO 15AUG20 CHECKER N/A N/A		
	TEST PROCESS N/A	N/A			
	HARDWARE RELEASE K. JABATAN	15AUG20			
	SIZE C	FSCM NO 24355	DRAWING NUMBER 09-065434	REV B	
DO NOT SCALE DWG			SCALE 1/1		SHEET 1 OF 2

4

3

2

1

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 $T_g > 170\text{degC}$, $T_d > 300\text{degC}$, U.L. RATING OF 94 V-0

MATERIAL FAMILY: ISOLA 370HR OR EQUIVALENT

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

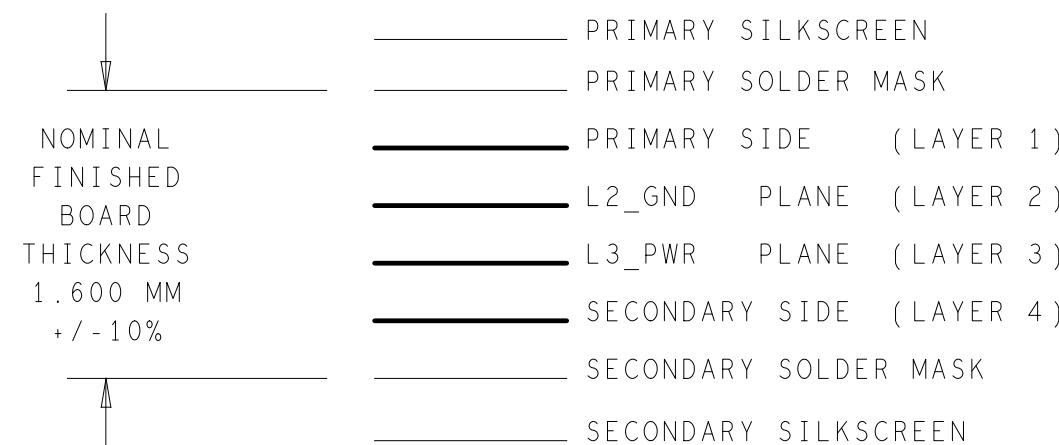
INTENTIONAL SHORTS: IF SUPPLIED DATA INCLUDES A FILE "READ_ME.2", THEN INTENTIONAL NET SHORTS EXIST. CUSTOMER REVIEW AND APPROVAL IS REQUIRED IF SUPPLIED DATA REPORTS ANY CONDITION THAT DOES NOT MATCH "READ_ME.2" FILE PROVIDED.

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.

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 0.127 MM FROM THEIR TRUE POSITION.
5. PLATED HOLE WALL THICKNESS SHALL NOT BE LESS THAN 0.0254MM MINIMUM AVERAGE, WITH NO READING LESS THAN .02032MM 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 .200 MM.
9. MINIMUM DESIGN SPACING IS .100 MM.
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 ANNUAL RING REQUIREMENT, MFGR. MAY REQUEST APPROVAL TO TEAR DROP PADS TO MAINTAIN ANNUAL 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 5.080 MM 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. BOARDS TO BE SHIPPED IN ARRAYS.
16. PANEL TO BE SUBJECT TO CUSTOMER'S APPROVAL.
17. PANELED SOLDER PASTE STENCIL SHOULD BE SENT TO THE CUSTOMER.

4 LAYER STACKUP



PRIMARY SIDE			
ANALOG DEVICES		WWM DIVISION 804 WOBURN STREET WILMINGTON, MA 01887	REV
SIZE	FSCM NO	DRAWING NUMBER	REV
C	24355	09-065234	B
SCALE 1/1			1
			SHEET 2 OF 2

REVISI0NS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	15AUG20	T. CABILDO
B	CHANGES PER ECR-103897	03AUG21	Z. ARCEO

D

D

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. ASSEMBLY VENDOR MUST SOLDER SHORT ON DEFAULT POSITION PIN 1 & 2 OF COMPONENT P7, P1 & P14.
6. ASSEMBLED BOARDS TO BE SHIPPED SINGULATED.
7. SMOOTHEN EDGES AND FREE FROM BURS AFTER DEPANIZATION.

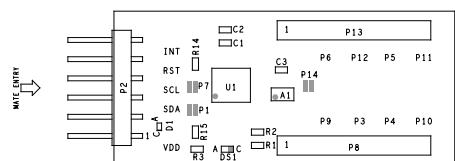
C

C



B

B



A

A

PRIMARY SIDE

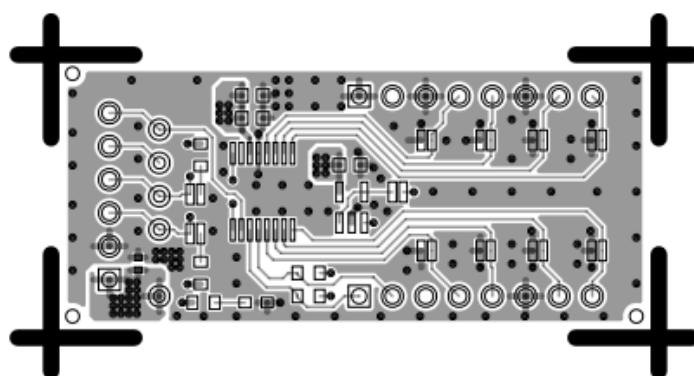
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM	APPROVAL	DATE
TOLERANCES	TEMPLATE ENGINEER	N/A
DECIMALS FRACTIONS ANGLES	N/A	N/A
.XX254 .1/32 .2	HARDWARE SERVICES	
.XXX127	M. VALE	15AUG20
.XXXX1270	HARDWARE SYSTEMS	
	N/A	N/A
MATERIAL	TEST ENGINEER	N/A
	N/A	N/A
	COMPONENT ENGINEER	N/A
	A. CAULAN	15AUG20
	TEST PROCESS	N/A
	N/A	N/A
	HARDWARE RELEASE	N/A
	K. JABATAN	15AUG20
FINISH	DESIGNER	15AUG20
	M. NICOPIOR	15AUG20
	PTD ENGINEER	N/A
	T. CABILDO	15AUG20
	CHECKER	N/A
	N/A	N/A
DO NOT SCALE DWG		
	SCALE	1/1
	SHEET	1 OF 1



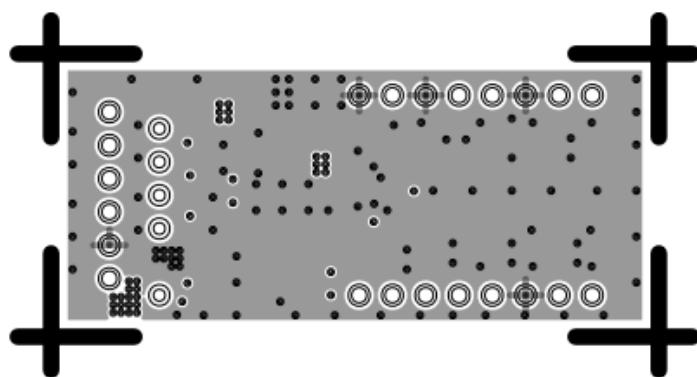
WWM
DIVISION
804 WOBURN STREET
WILMINGTON, MA 01887

TITLE
ASSEMBLY
EVAL-CN0552-PMDZ
CUSTOMER EVALUATION Z

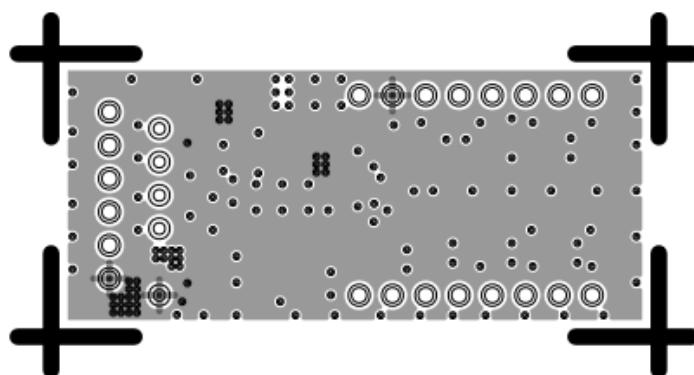
L1 PRIMARY
08-065434-01
REV B



L2 GND
08-065434-07
REV B



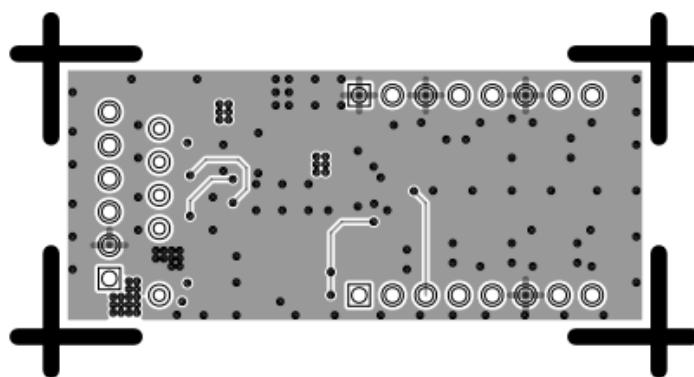
L 3 PWR
08 - 065434 - 08
REV B



L4 SECONDARY

08-065434-02

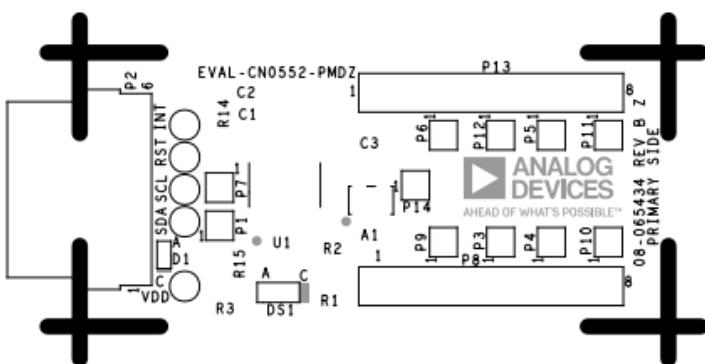
REV B



SILKSCREEN PRIMARY

08-065434-03

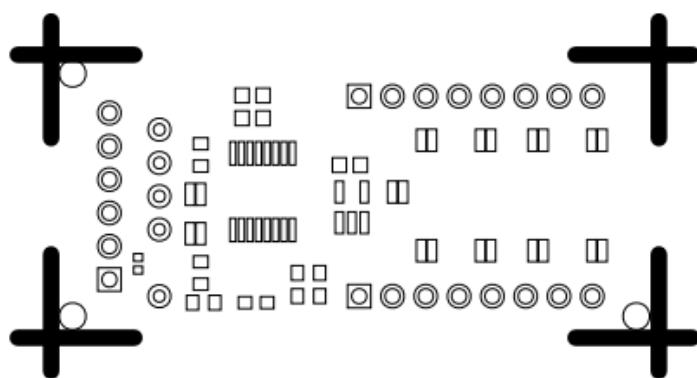
REV B



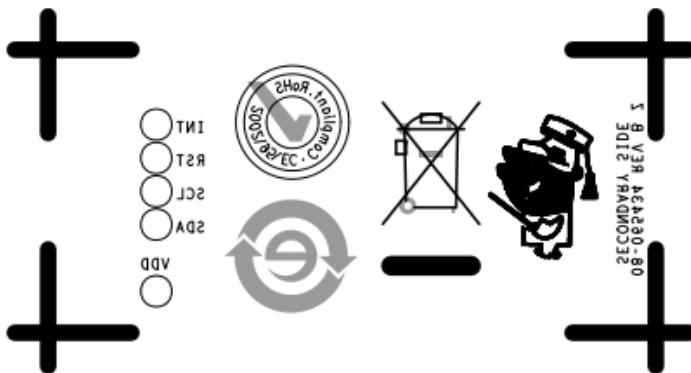
SOLDERMASK PRIMARY

08-065434-04

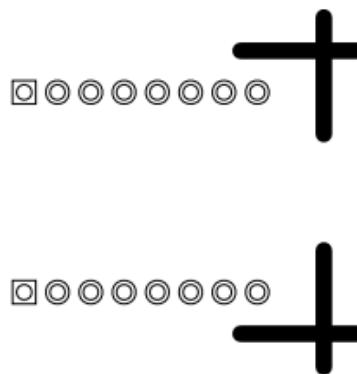
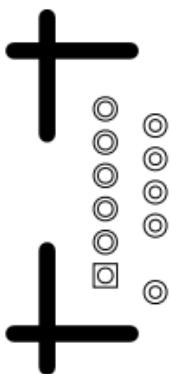
REV B



SILKSCREEN SECONDARY
08-065434-05
REV B



SOLDERMASK SECONDARY
08-065434-06
REV B



PASTEMASK PRIMARY

08-065434-09

REV B

