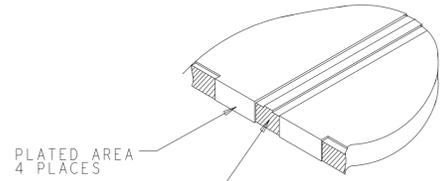
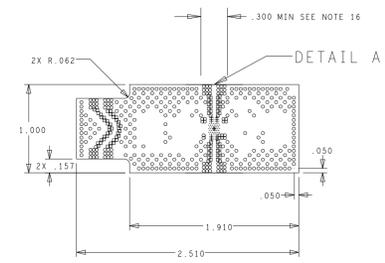


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03/2018	HN
B	PER ECR# 084871	01/2019	HN



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

DETAIL A



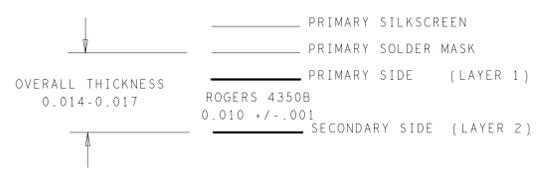
SPECIFICATIONS:

- 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 4350B
- CLADDING;** EXTERNAL LAYERS .5 OZ. COPPER, OVERPLATE TO 1.5 OZ. INTERNAL SIGNAL LAYERS 5 OZ. COPPER. INTERNAL PLANE LAYERS 1 OZ. COPPER.
- SOLDER MASK;** SHALL BE LIQUID PHOTOIMAGEABLE (LPI) APPLIED PRIMARY SIDE 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 .010 INCH.
- MINIMUM DESIGN SPACING IS .008 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:
 - 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. REPAIRS ARE NOT ALLOWED IN ANY AREA DEFINED ON GOLD_PRM AND/OR GOLD_SEC ARTWORK LAYERS WHEN PROVIDED IN GERBER OR ODB++ DATA.
- CRITICAL LINE WIDTH = .016+/- .001 ON LAYER 1. ADJUST PROCESS TO ACHIEVE WIDTH.
- CONNECTOR EDGE PLATING MUST CONNECT BOTH LAYERS 4 PLACES.
- INDICATED VIAS TO BE NON-CONDUCTIVE FILLED, GROUND FLUSH TO 0.003 BELOW SURFACE BOTH SIDES PRIOR TO OVERPLATING.

2 LAYER STACKUP



HOLE TOLERANCE
UNLESS SPECIFIED
PLATED: +/- 3 MILS
NON PLATED: +/- 5 MIL

FINISHED HOLES IN MILS				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	PLATED	QTY	TOLERANCE/NOTES
.	10.0	PLATED	48	SEE NOTE 17
+	10.0	PLATED	12	SEE NOTE 17
o	14.0	PLATED	349	SEE NOTE 17
□	14.1	PLATED	84	

PRIMARY SIDE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVAL	DATE			RFMG DIVISION 804 WOBURN STREET WILMINGTON, MA 01887	
TOLERANCES				TITLE		FABRICATION	
DECIMALS	FRACTIONS	ANGLES		ADPA7002LS6 EVAL BOARD			
.XX	..010	..1/32	..2				
.XXX	..005						
.XXXX	..0050						
MATERIAL							
FINISH	DESIGNER R. HUNTLEY	03/2018	SIZE	FSCM NO	DRAWING NUMBER	REV	
	PRO-ENGINEER H. NGUYEN	05/2016	D	24355	09-049181	B	
DO NOT SCALE DWG			SCALE	1/1	SHEET		1 OF 1