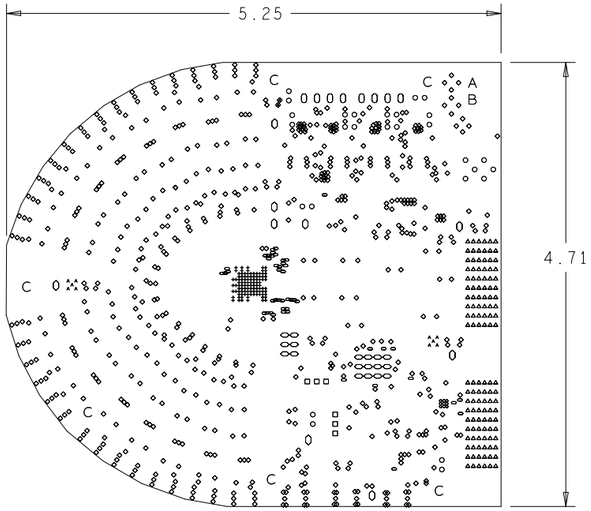
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/12	S.G.
B	CHANGES AS PER ECR-040692	14FEB13	S.GIBBS
C	CHANGES AS PER ECR-043384	20SEP13	D.M.L.



NOTES:

MATERIALS; ISOLA 370HR IN ACCORDANCE WITH IPC-4101/126

BONDING AGENT; PREIMPREGNATED B STAGE EPOXY GLASS CLOTH IN ACCORDANCE WITH IPC-L-109 (LATEST REV.).
CLADDING; EXTERNAL LAYERS 1/2 OZ. COPPER, OVERPLATE TO 1 OZ.
INTERNAL SIGNAL LAYERS 1/2 OZ. COPPER.
INTERNAL PLANE LAYERS 1 OZ. COPPER.
SOLDER MASK; SHALL BE BLUE LIQUID PHOTOIMAGABLE (LPI) APPLIED ON BOTH SIDES OVER BARE COPPER AND SHALL MEET IPC-SM-840 (LATEST REV.) CLASS 3.
SILK SCREEN; SHALL BE PERMANENT NON-CONDUCTIVE EPOXY INK, COLOR WHITE.
U.L. RATING; 94VO MINIMUM.

FABRICATION:

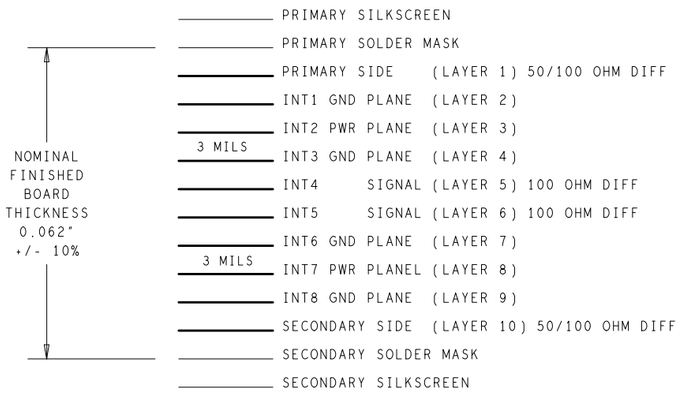
1. REFER TO IPC-6010 SERIES (LATEST REV.), CLASS 2 FOR FABRICATION UNLESS OTHERWISE SPECIFIED.
2. UNDIMENSIONED HOLES TO BE LOCATED WITHIN +/-.005 OF THEIR TRUE POSITION WITH RESPECT TO ARTWORK.
3. PLATED HOLE WALL THICKNESS SHALL NOT BE LESS THAN .001 INCH MINIMUM AVERAGE, WITH NO READING LESS THAN .0008 BY CROSS SECTION.
4. HOLE DIAMETERS APPLY AFTER PLATING.
5. FINISHED CONDUCTOR WIDTHS SHALL NOT BE REDUCED FROM THE NOMINAL, INDICATED ON THE MASTER PATTERN, BY MORE THAN THE CONDUCTOR THICKNESS.
6. MINIMUM DESIGN LINE WIDTH IS .003 INCH.
7. MINIMUM DESIGN SPACING IS .003 INCH.
8. BOARD/PANEL MUST MEET IPC-A-600 (LATEST REV.) CLASS 2 FOR FLATNESS.
9. 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
   B. DATE CODE (STAMP)
   C. FLAMMABILITY RATING
   D. MFGR. LOGO
   E. SUCCESSFUL ELECTRICAL BOARD TEST.
10. NON-FUNCTIONAL PADS MAY BE REMOVED FROM INNER SIGNAL LAYERS AT MFGR. DISCRETION.
11. IF PAD SIZES PROVIDED ARE NOT LARGE ENOUGH TO MAINTAIN ANNULAR RING REQUIREMENT, MFGR. MAY TEAR DROP PADS TO MAINTAIN ANNULAR RING AT PAD TO CIRCUIT INTERFACE ONLY AND MUST INSURE ELECTRICAL INTEGRITY.
12. REPAIRS PER IPC-R-700 ARE ALLOWED.
13. MODIFICATIONS TO THE ARTWORK, OTHER THAN THOSE DESCRIBED ON THE FABRICATION DRAWING, ARE NOT ALLOWED WITHOUT WRITTEN AUTHORIZATION.
14. SURFACE FINISH TO BE SILVER IMMERSION
15. FILL VIAS WITH NON-CONDUCTIVE EPOXY AND OVER PLATE

HOLE TOLERANCE

UNLESS SPECIFIED
PLATED: +/- .003
NON PLATED: +/- .005

FINISHED HOLES IN MILS ALL UNITS ARE IN MILS					
FIGURE	SIZE	PLATED	QTY	TOLERANCE/NOTES	
·	6.0	PLATED	104	MAX DIA THRU	SEE NOTE 15
▫	8.0	PLATED	47	MAX DIA THRU	
◦	11.5	PLATED	9	MAX DIA THRU	SEE NOTE 15
◇	12.0	PLATED	691	MAX DIA THRU	
◆	20.0	PLATED	2	MAX DIA THRU	
△	28.0	PLATED	120	+/-.003	
□	35.0	PLATED	6	+/-.003	
▵	37.0	PLATED	8	+/-.003	
▲	39.0	PLATED	2	+/-.003	
○	40.0	PLATED	28	+/-.003	
⬭	45.0	PLATED	18	+/-.005	
0	50.0	PLATED	8	+/-.005	
0	63.0	PLATED	9	+/-.005	
A	64.0	NON-PLATED	1		
B	71.0	NON-PLATED	1		
C	160.0	NON-PLATED	6		

10 LAYER STACKUP



CHARACTERISTIC IMPEDANCE = 50 OHMS +/- 5%
ARTWORK LINE WIDTH FOR
IMPEDANCE CONTROLLED LINES = 0.0085"

DIFFERENTIAL IMPEDANCE = 100 OHMS +/- 10%
ARTWORK LINE WIDTH FOR
IMPEDANCE CONTROLLED LINES = 0.005"
IMPEDANCE CONTROLLED SPACING = 0.005"

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS .XX +-.010 .XXX +-.005 FRACTIONS +-1/32 ANGLES +/- 2

NCDRILL

	APPROVAL	DATE
DRAWN BY		
DESIGNED	J.J.F.	10/12
CHECKED		
APPROVED		
MFG ENGINEER	S.G.	10/12

MATERIAL

FINISH

DO NOT SCALE DWG

ANALOG DEVICES
ASC DIVISION
804 WOBURN STREET
WILMINGTON, MA 01887

TITLE
AD9249-65
EVALUATION BOARD Z

SIZE	FSCM NO	DRAWING NUMBER	REV
C		09-034937	C

SCALE 1/1 SHEET 1 OF 1