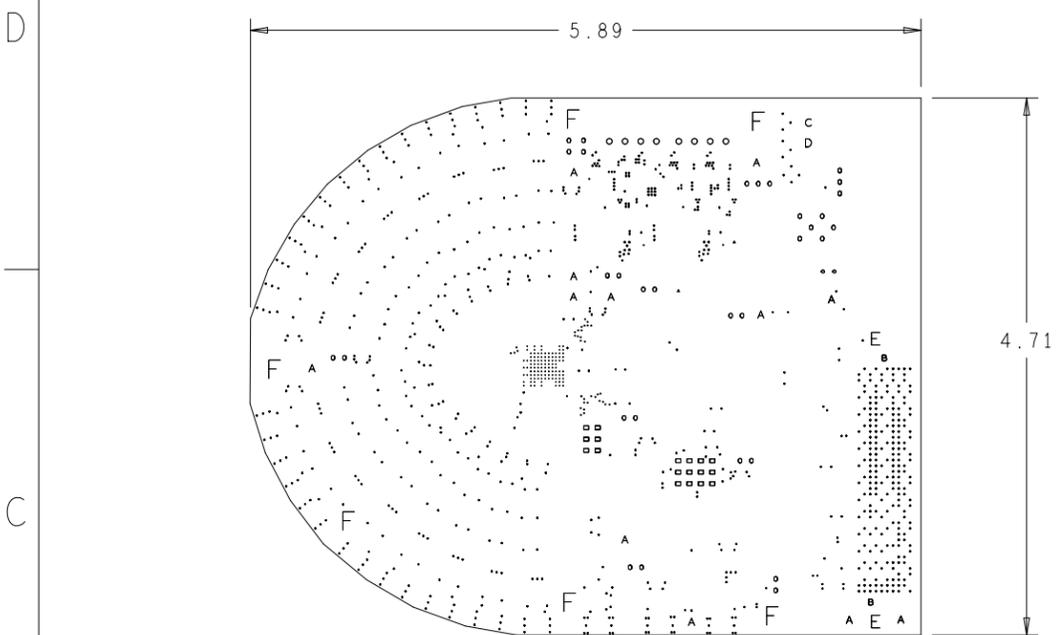


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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04AUG14	D.M.L..
B	MINOR REVISIONS	04OCT15	D.M.L..



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:

- REFER TO IPC-6010 SERIES (LATEST REV.), CLASS 2 FOR FABRICATION UNLESS OTHERWISE SPECIFIED.
- UNDIMENSIONED HOLES TO BE LOCATED WITHIN +/- .005 OF THEIR TRUE POSITION WITH RESPECT TO ARTWORK.
- PLATED HOLE WALL THICKNESS SHALL NOT BE LESS THAN .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 .003 INCH.
- MINIMUM DESIGN SPACING IS .003 INCH.
- BOARD/PANEL MUST MEET IPC-A-600 (LATEST REV.) CLASS 2 FOR FLATNESS.
- 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 D. MFR. LOGO
B. DATE CODE (STAMP) E. SUCCESSFUL ELECTRICAL BOARD TEST.
C. FLAMMABILITY RATING
- NON-FUNCTIONAL PADS MAY BE REMOVED FROM INNER SIGNAL LAYERS AT MFR. DISCRETION.
- IF PAD SIZES PROVIDED ARE NOT LARGE ENOUGH TO MAINTAIN ANNULAR RING REQUIREMENT, MFR. MAY TEAR DROP PADS TO MAINTAIN ANNULAR RING AT PAD TO CIRCUIT INTERFACE ONLY AND MUST INSURE ELECTRICAL INTEGRITY.
- REPAIRS PER IPC-R-700 ARE ALLOWED.
- MODIFICATIONS TO THE ARTWORK, OTHER THAN THOSE DESCRIBED ON THE FABRICATION DRAWING, ARE NOT ALLOWED WITHOUT WRITTEN AUTHORIZATION.
- SURFACE FINISH TO BE SILVER IMMERSION
- FILL VIAS WITH NON-CONDUCTIVE EPOXY AND OVER PLATE

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

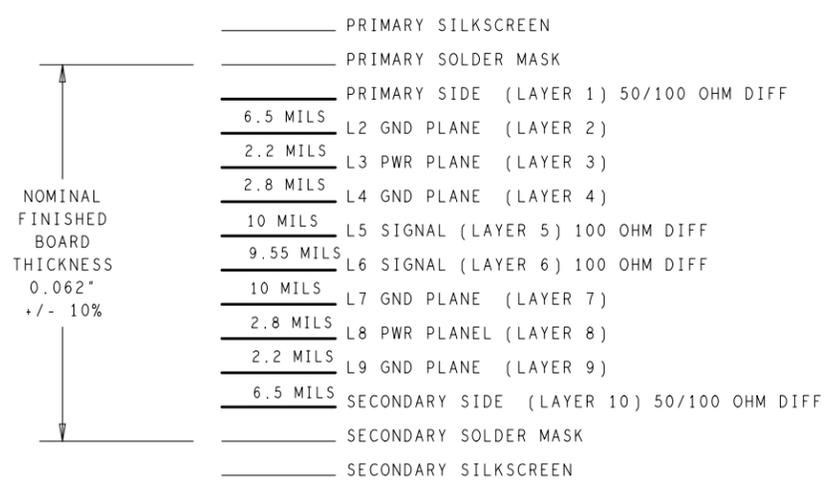
FINISHED HOLES IN MILS				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	PLATED	QTY	TOLERANCE/NOTES
.	6.0	PLATED	106	MAX DIA THRU
.	8.0	PLATED	36	MAX DIA THRU
.	10.0	PLATED	12	MAX DIA THRU
.	12.0	PLATED	633	MAX DIA THRU
.	13.01	PLATED	20	MAX DIA THRU
.	15.0	PLATED	219	+/- .003
.	20.0	PLATED	2	+/- .003
.	30.0	PLATED	2	+/- .003
o	40.0	PLATED	32	+/- .003
o	45.0	PLATED	18	+/- .003
o	50.0	PLATED	8	+/- .005
A	63.0	PLATED	12	+/- .005
B	50.0	NON-PLATED	2	+/- .005
C	64.0	NON-PLATED	1	
D	71.0	NON-PLATED	1	
E	110.0	NON-PLATED	2	
F	160.0	NON-PLATED	6	

SEE NOTE 15

SEE NOTE 15

SEE NOTE 15

10 LAYER STACKUP



NOMINAL FINISHED BOARD THICKNESS 0.062" +/- 10%

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				ASC DIVISION 804 WOBURN STREET WILMINGTON, MA 01887	
DECIMALS	FRACTIONS	ANGLES		APPROVAL	DATE	TITLE	
.XX +/- .010	--1/32	+/- 2		DESIGNED BY	04AUG14	AD9249-65	
.XXX +/- .005				CHECKED		EVALUATION BOARD Z	
MATERIAL		FINISH		APPROVED		SIZE	FSCM NO
				MFG ENGINEER	D.I.	04AUG14	DRAWING NUMBER
						C	09-039099
DO NOT SCALE DWG				SCALE	1/1		REV B
						SHEET 1 OF 1	

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