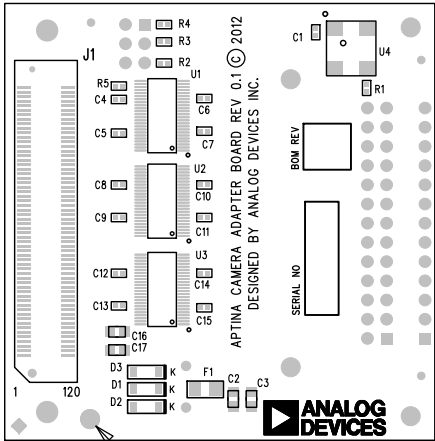



REVISIONS				
REV	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
0.1	NEW RELEASE	EASTERN CIRCUITS	03/02/12	

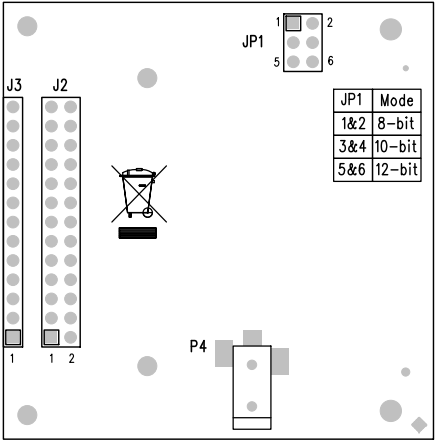



BAD MARK FIDUCAL

REFERENCE DESIGNATIONS	
LAST USED	NOT USED
C17	
D3	
F1	
J3	
JP1	
P4	P1-P3
R5	
U4	

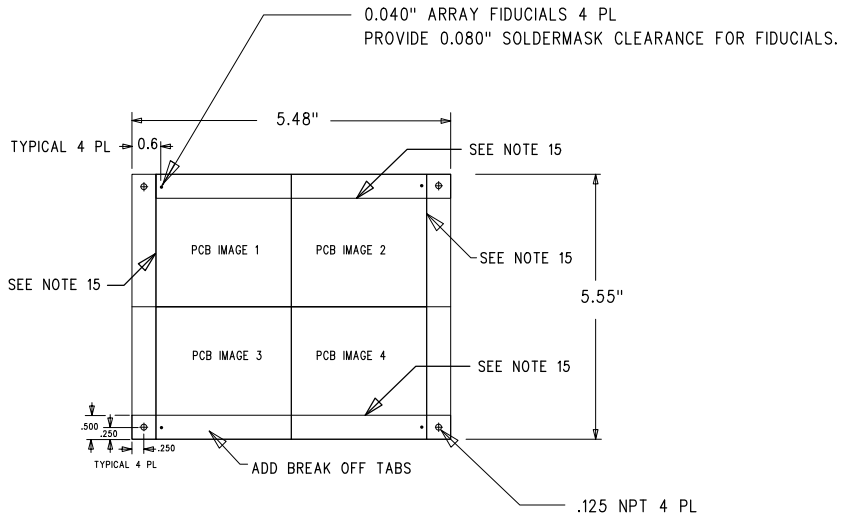
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE : .XX +/- .010 .XXX +/- .005	CONTRACT NO.		 <div>20 Cotton Road Nashua, New Hampshire 03063 (603) 883-2430 FAX (603) 882-2655</div>	
	APPROVALS	DATE		
	DRAWN EASTERN CIRCUITS	03/02/12	ASSEMBLY DRAWING TOP SIDE APTINA CAMERA ADAPTER BOARD	
	CHECKED			
MATERIAL	ENGINEERING		SIZE B	DWG. NO. ASSMAA0351-2012
FINISH	QUALITY			REV. 0.1
DO NOT SCALE THIS DRAWING	MANUFACTURING		SCALE 1 : 1	SHEET 1 OF 2

REVISIONS				
REV	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
0.1	NEW RELEASE	EASTERN CIRCUITS	03/02/12	

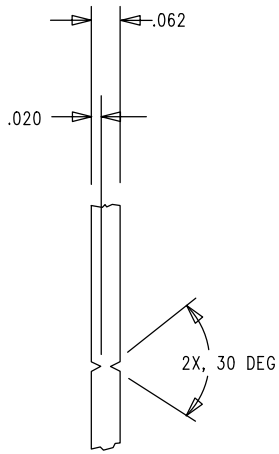


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE : .XX +/- .010 .XXX +/- .005	CONTRACT NO.		 20 Cotton Road Nashua, New Hampshire 03063 (603) 883-2430 FAX (603) 882-2655	
	APPROVALS	DATE		
	DRAWN EASTERN CIRCUITS	03/02/12	ASSEMBLY DRAWING BOTTOM SIDE APTINA CAMERA ADAPTER BOARD	
	CHECKED			
MATERIAL	ENGINEERING		SIZE B	REV. 0.1
FINISH	QUALITY		DWG. NO. ASSMAA0351-2012	
DO NOT SCALE THIS DRAWING	MANUFACTURING		SCALE 1 : 1	SHEET 2 OF 2

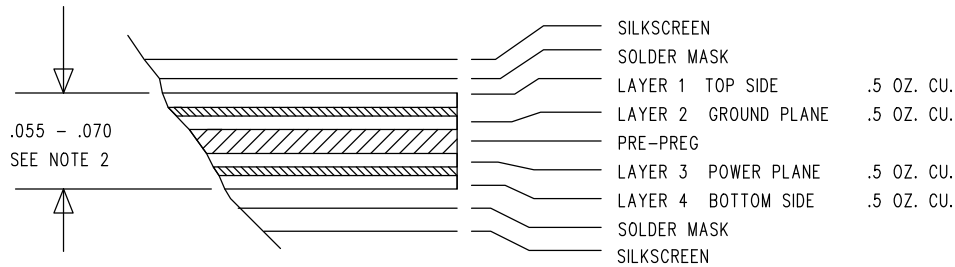
REVISIONS				
REV	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
0.1	NEW RELEASE	EASTERN CIRCUITS	03/02/12	



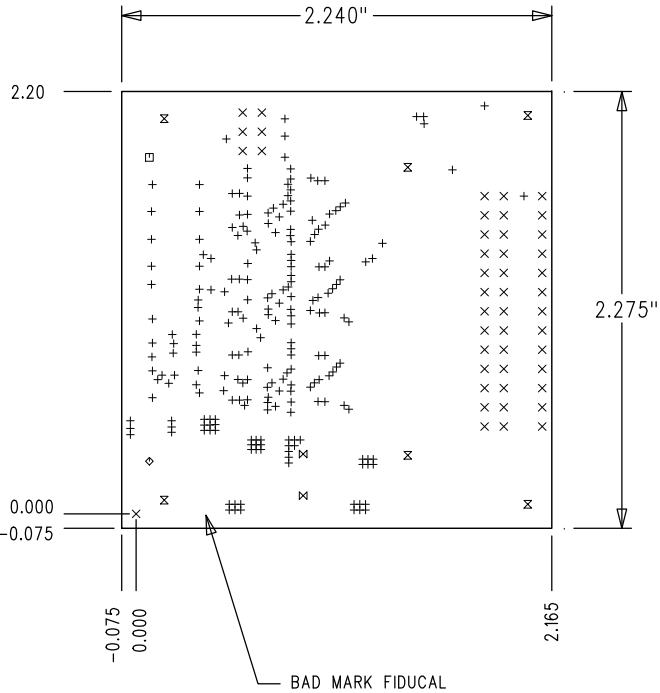
PANEL DETAIL
X-OUTS ARE ALLOWED



SCORING DETAIL



4 LAYER CONSTRUCTION VIEW
SCALE : NONE




UNLESS OTHERWISE SPECIFIED

- BOARD TO BE FABRICATED PER IPC-6012A, CLASS 2.
- MATERIAL: POLYCLAD FR-370HR OR EQUIVALENT. OUTER LAYERS 1/2 OZ/SQFT CU
INNER LAYERS 1/2 OZ/SQFT CU FINISHED .062 (.056 MIN .076 MAX SEE DETAIL).
VENDOR MAY ADJUST THICKNESS TO FULFILL NOTE 9.
- PLATING: ADDITIONAL CU PLATING 1 OZ/SQFT
ALL HOLES PLATED THROUGH, EXCEPT AS NOTED IN HOLE LEGEND.
MINIMUM PTH BARREL THICKNESS = 0.0008" MINIMUM AVERAGE
PER IPC-6012A WITH AMENDMENT 1, CLASS 2 REQUIREMENTS.
WITH NO SINGLE MEASUREMENT LESS THAN 0.00071 IN THE PLATED HOLES.
- FINISH: SURFACES TO BE COATED BY ENIG OF 2 TO 10 MICROINCHES OVER
A MINIMUM OF 60-200 MICROINCHES OF LOW STRESS NICKEL.
- SOLDERMASK: SOLDER MASK TO BE TRANSPARENT GREEN LPI BOTH SIDES PER GERBER FILES.
- SILKSCREEN: WHITE EPOXY INK, APPLY TO TOP AND BOTTOM SIDE PER GERBER FILE.
- ARTWORK: MINIMUM FEATURE SIZE = 0.005
MINIMUM AIR GAP = 0.0047
- ALL DIMENSIONS ARE IN INCHES.
- CONTROLLED IMPEDANCE: BOARD TO BE BUILT TO YIELD CONTROLLED IMPEDANCE
CONTROLLED IMPEDANCE (+/-10%):
OF 50 OHMS +/- 10% ON ALL .005" LINE WIDTHS
- THIEVING IS ALLOWED, UNLESS OTHERWISE SPECIFIED.
- VIAS SHOULD BE COVERED ACCORDING TO ONE OF THE FOLLOWING METHODS.
METHOD 1: VIAS MUST BE FILLED WITH SOLDERMASK MATERIAL AFTER
ELECTROLESS NICKEL/IMMERSION GOLD AND BEFORE PRIMARY LPI MASK. AFTER THE
FILL IS CURED, THE PRIMARY MASK IS THEN APPLIED WITH NO VIA APERTURES BOTH SIDES.

METHOD 2: AFTER APPLICATION OF FULL BODY ELECTROLESS NICKEL/IMMERSION
GOLD, APPLY PRIMARY MASK WITH REDUCED VIA APERTURES THAT ARE 6 MILS
LARGER THAN DRILLED HOLE DIAMETER BOTH SIDES. THEN APPLY SOLDER MASK PLUG ON COMPONENT SIDE.
- VIA HOLES (.010) REQUIRE TANGENCY ONLY, INSTEAD OF ANNULAR RING.
- TEARDROP PADS ARE ACCEPTABLE WHERE NEEDED.
- USE IPC-D-356 NETLIST AS SUPPLIED FOR CHECKING.
- BUILD AS 5.48" X 5.55" PANELIZED PCB, SEE DETAIL. X-OUTS ARE ALLOWED.
V SCORE 6 LINES ON BOTH SIDES OF THE BOARD.
- WHEN STEP AND REPEAT IS COMPLETE A SOLDERPASTE MASKS (GERBER FILES) ARE NEED
FOR THE ASSEMBLY HOUSE FOR THE 5.48" X 5.55" PANEL.
PLEASE SUPPLY TO KEVIN GAGNE AT ANALOG DEVICES.

SIZE	QTY	SYM	PLATED	TOL
0.01	224	+	YES	+0.003/-0.010
0.037	46	×	YES	+/-0.003
0.028	1	□	NO	+/-0.003
0.043	1	◇	NO	+/-0.003
0.065	2	⊠	NO	+/-0.003
0.144	6	⊠	NO	+/-0.005

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	APPROVALS	DATE	
MATERIAL SEE NOTES	DRAWN EASTERN CIRCUITS	03/02/12	FABRICATION DRAWING APTINA CAMERA ADAPTER BOARD
	CHECKED		
FINISH SEE NOTES	ENGINEERING		SIZE B
	QUALITY		
DO NOT SCALE THIS DRAWING	MANUFACTURING		SCALE 1 : 1
		SHEET 1 OF 1	REV. 0.1

