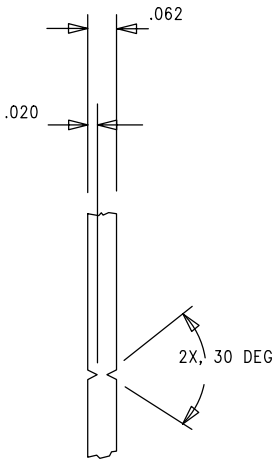
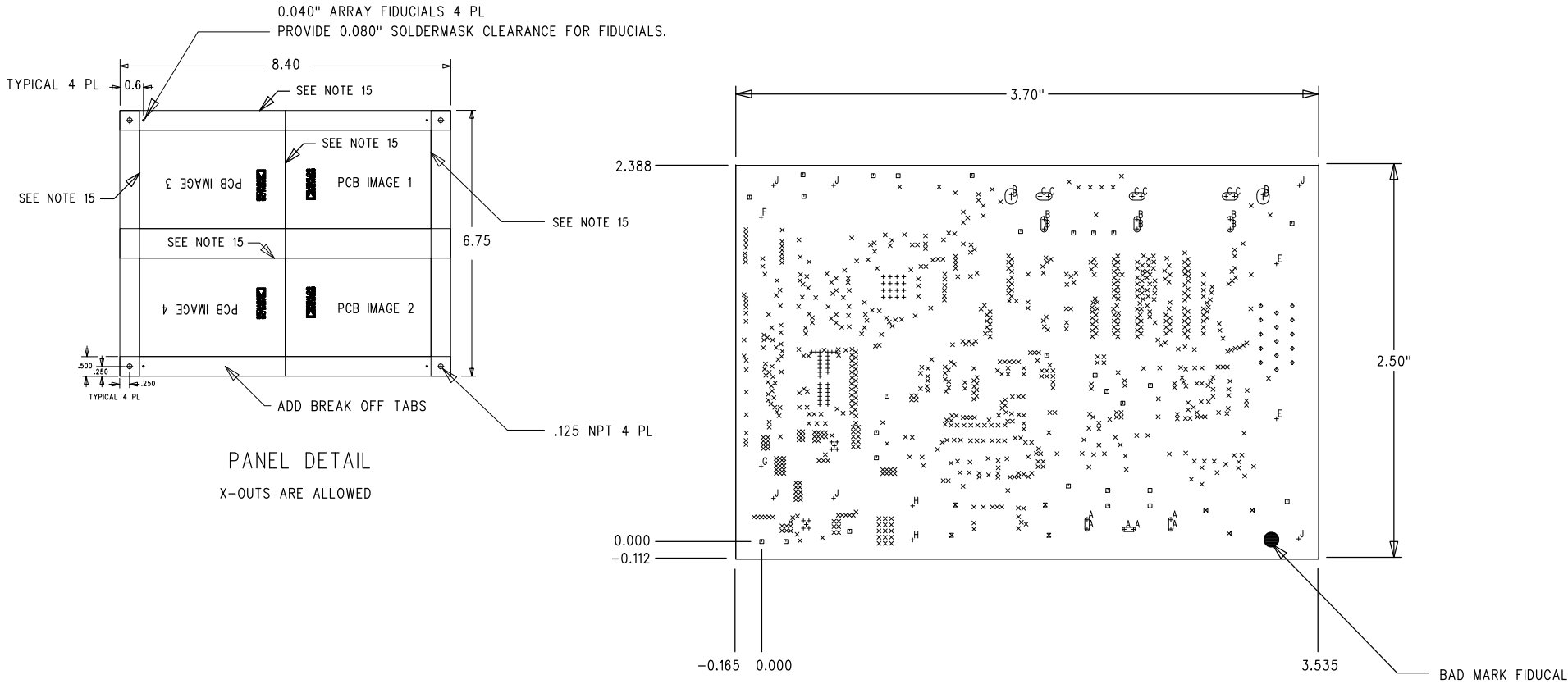


REVISIONS				
REV	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
0.1	NEW RELEASE	EASTERN CIRCUITS	10/12/11	
1.0	ECO2012-012	EASTERN CIRCUITS	03-14-12	

UNLESS OTHERWISE SPECIFIED

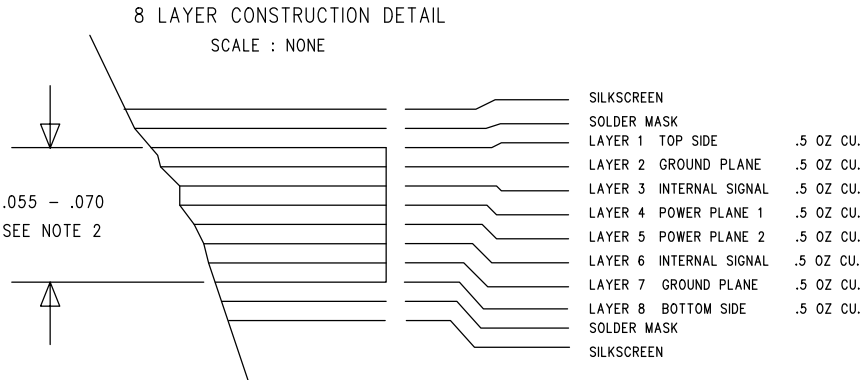
- BOARD TO BE FABRICATED PER IPC-6012A, CLASS 2.
- MATERIAL: POLYCLAD FR-370HR OR EQUIVALENT. OUTER LAYERS 1/2 OZ/SQFT CU
INNER LAYERS 1/2 OZ/SQFT CU FINISHED .062 (.056 MIN .076 MAX SEE DETAIL).
VENDOR MAY ADJUST THICKNESS TO FULFILL NOTE 9.
- PLATING: ADDITIONAL CU PLATING 1 OZ/SQFT
ALL HOLES PLATED 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 BOTH SIDES PER GERBER FILES.
- ARTWORK: MINIMUM FEATURE SIZE = 0.00394
MINIMUM AIR GAP = 0.00267
- ALL DIMENSIONS ARE IN INCHES.
- CONTROLLED IMPEDANCE: BOARD TO BE BUILT TO YIELD CONTROLLED IMPEDANCE
CONTROLLED IMPEDANCE (+/-10%):
ALL .00492" TRACES TO BE 50 OHM SINGLE ENDED.
ALL .007" TRACES TO BE 100 OHM DIFFERENTIAL PAIRS.
ALL .0079" TRACES TO BE 75 OHM SINGLE ENDED.
- THIEVING IS ALLOWED, UNLESS OTHERWISE SPECIFIED.
- VIAS SHOULD BE COVERED ACCORDING TO ONE OF THE FOLLOWING METHODS.
METHOD 1 IS PREFERRED.
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 (.006,.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 8.40" X 6.75" PANELIZED PCB, SEE DETAIL. X-OUTS ARE ALLOWED.
V SCORE 7 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 8.40" X 6.75" PANEL.
PLEASE SUPPLY TO KEVIN GAGNE AT ANALOG DEVICES.



SCORING DETAIL

SIZE	QTY	SYM	PLATED	TOL
0.006	55	+	YES	+0.003/-0.006
0.01	833	X	YES	+0.003/-0.010
0.028 x 0.087	3	-1 ^A	YES	+/-0.003
0.04	28	-1 ^B	YES	+/-0.003
0.04 x 0.1	3	-1 ^B	YES	+/-0.003
0.047 x 0.1	3	-1 ^C	YES	+/-0.003
0.047	15	-1 ^D	YES	+/-0.003
0.052	4	-1 ^E	YES	+/-0.003
0.085	3	-1 ^F	YES	+/-0.003
0.12	2	-1 ^G	YES	+/-0.003
0.028	1	-1 ^H	NO	+/-0.003
0.043	1	-1 ^I	NO	+/-0.003
0.065	2	-1 ^J	NO	+/-0.003
0.078 x 0.1	2	-1 ^K	NO	+/-0.003
0.144	6	-1 ^L	NO	+/-0.005



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE : .XX +/- .010 .XXX +/- .005	CONTRACT NO.		 ANALOG DEVICES		20 Cotton Road Nashua, New Hampshire 03063 (603) 883-2430 FAX (603) 882-2655	
	APPROVALS	DATE				
MATERIAL SEE NOTES	DRAWN EASTERN CIRCUITS	03-14-12	FABRICATION DRAWING VIDEO ENCODER EZ-EXTENDER BOARD			
	CHECKED					
FINISH SEE NOTES	ENGINEERING		SIZE B	DWG. NO.	A0252-2010	REV. 1.0
	QUALITY					
DO NOT SCALE THIS DRAWING	MANUFACTURING		SCALE 1 : 1		SHEET 1 OF 1	

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FABRICATION DRAWING
VIDEO ENCODER EZ-EXTENDER BOARD