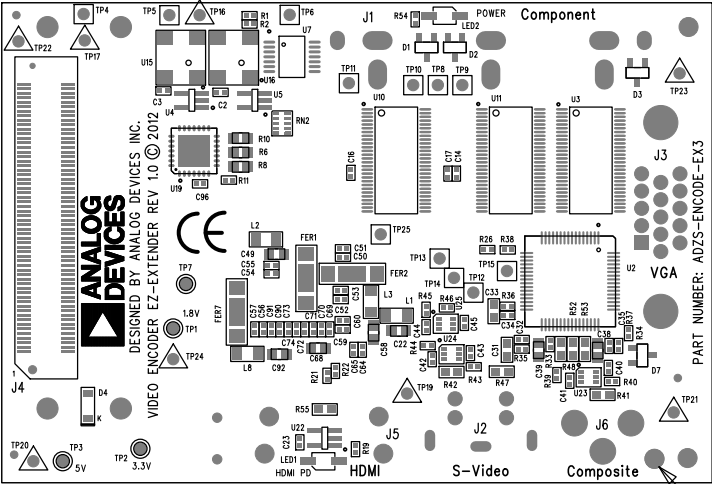



REVISIONS				
REV	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
0.1	NEW RELEASE	EASTERN CIRCUITS	10/12/11	
1.0	EC02012-012	EASTERN CIRCUITS	03-14-12	



BAD MARK FIDUCAL

REFERENCE DESIGNATIONS	
LAST USED	NOT USED
C96	C5,6,13,27,28,78,79,88,89
D11	
F1	
FER8	
J6	
L9	
LED2	
P1	
R58	
RN2	
TP25	TP18
U25	U20,21
VR2	

- NOTES:
1. MASK PADS FOR TP'S BEFORE SOLDERING.
  2. BREAK OFF STRIPS AT COMPLETION OF ASSEMBLY.

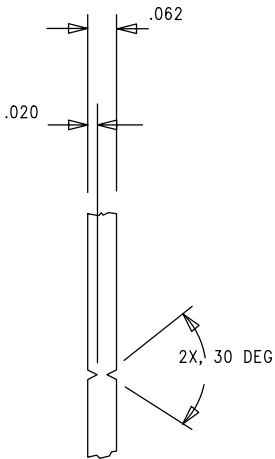
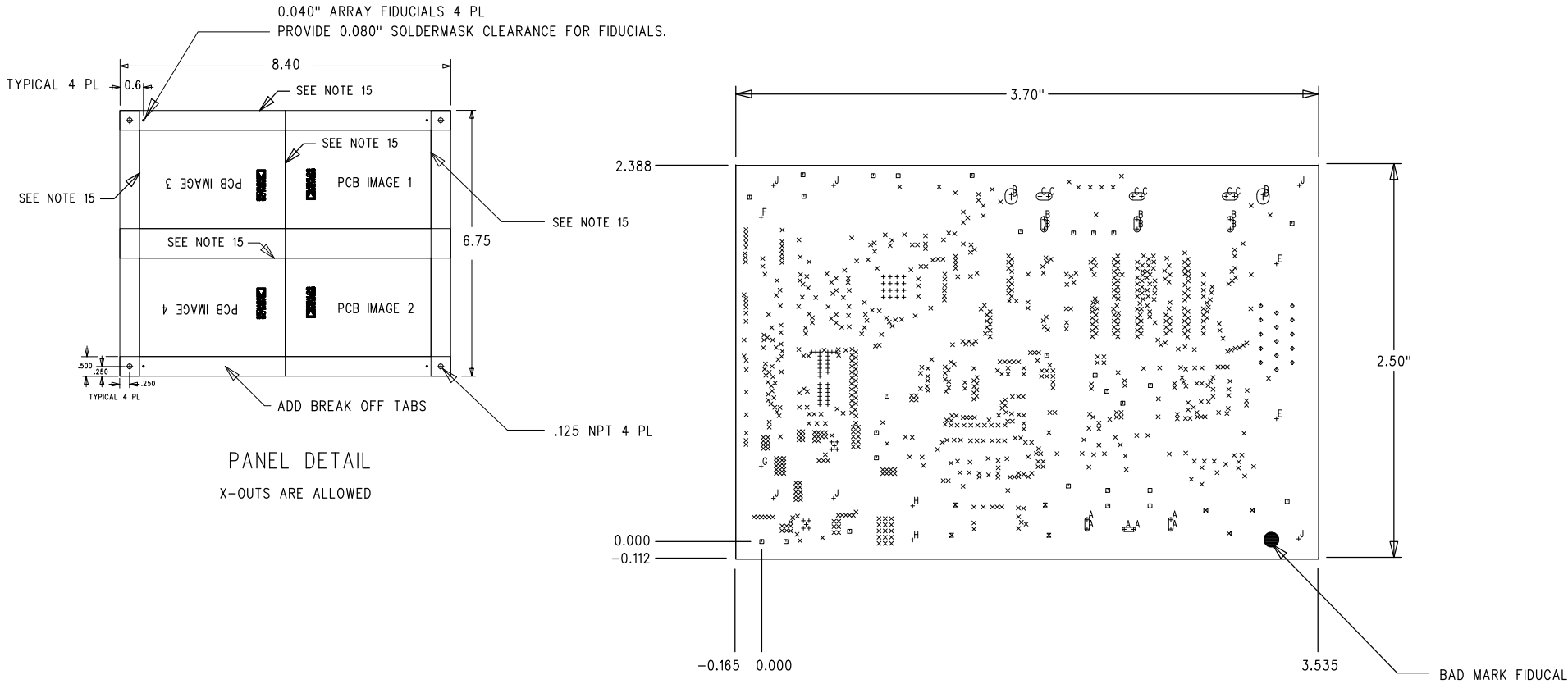
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE : .XX +/- .010 .XXX +/- .005	CONTRACT NO.		 20 Cotton Road Nashua, New Hampshire 03063 (603) 883-2430 FAX (603) 882-2655	
	APPROVALS	DATE		
	DRAWN EASTERN CIRCUITS	03-14-12	ASSEMBLY DRAWING TOP SIDE	
	CHECKED		VIDEO ENCODER EZ-EXTENDER BOARD	
MATERIAL	ENGINEERING		SIZE B	DWG. NO. ASSMAA0252-2010
FINISH	QUALITY			
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	10/12/11	
1.0	ECO2012-012	EASTERN CIRCUITS	03-14-12	

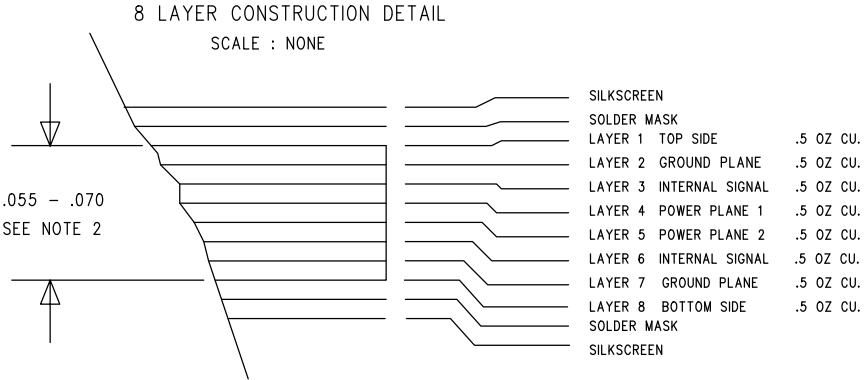
UNLESS OTHERWISE SPECIFIED


- 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	-I <sup>A</sup>	YES	+/-0.003
0.04	28	-I <sup>B</sup>	YES	+/-0.003
0.04 x 0.1	3	-I <sup>B</sup>	YES	+/-0.003
0.047 x 0.1	3	-I <sup>C</sup>	YES	+/-0.003
0.047	15	-I <sup>D</sup>	YES	+/-0.003
0.052	4	-I <sup>E</sup>	YES	+/-0.003
0.085	3	-I <sup>F</sup>	YES	+/-0.003
0.12	2	-I <sup>F</sup>	YES	+/-0.003
0.028	1	-I <sup>G</sup>	NO	+/-0.003
0.043	1	-I <sup>G</sup>	NO	+/-0.003
0.065	2	-I <sup>H</sup>	NO	+/-0.003
0.078 x 0.1	2	-I <sup>D</sup>	NO	+/-0.003
0.144	6	-I <sup>J</sup>	NO	+/-0.005



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	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

