REVISIONS				
REV	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
0.1	NEW RELEASE	EASTERN CIRCUITS	10/24/11	
1.0	ECO2012-013	EASTERN CIRCUITS	03/21/12	

PANEL DETAIL

X-OUTS ARE ALLOWED

UNLESS OTHERWISE SPECIFIED

1. BOARD TO BE FABRICATED PER IPC-6012A, CLASS 2.
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.
3. 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.
4. FINISH: SURFACES TO BE COATED BY ENIG OF 2 TO 10 MICROINCHES OVER
   A MINIMUM OF 60-200 MICROINCHES OF LOW STRESS NICKEL.
5. SOLDERMASK: SOLDER MASK TO BE TRANSPARENT GREEN LPI BOTH SIDES PER GERBER FILES.
6. SILKSCREEN: WHITE EPOXY INK, APPLY TO BOTH SIDES PER GERBER FILES.
7. ARTWORK: MINIMUM FEATURE SIZE = 0.00394
   MINIMUM AIR GAP = 0.00361
8. ALL DIMENSIONS ARE IN INCHES.
9. 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.
10. THIEVING IS ALLOWED, UNLESS OTHERWISE SPECIFIED.
11. 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 APERATURES 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.
12. VIA HOLES (.006,.010) REQUIRE TANGENCY ONLY, INSTEAD OF ANNULAR RING.
13. TEARDROP PADS ARE ACCEPTABLE WHERE NEEDED.
14. USE IPC-D-356 NETLIST AS SUPPLIED FOR CHECKING.
15. BUILD AS 9.70" X 6.75" PANELIZED PCB, SEE DETAIL. X-OUTS ARE ALLOWED.
    V SCORE 7 LINES ON BOTH SIDES OF THE BOARD.
16. WHEN STEP AND REPEAT IS COMPLETE A SOLDERPASTE MASKS (GERBER FILES) ARE NEED
    FOR THE ASSEMBLY HOUSE FOR THE 9.70" X 6.75" PANEL.
    PLEASE SUPPLY TO KEVIN GAGNE AT ANALOG DEVICES.

SCORING DETAIL

SIZE	QTY	SYM	PLATED	TOL
0.006	62	+	YES	+0.003/-0.006
0.01	923	×	YES	+0.003/-0.010
0.028 x 0.087	3	A	YES	+/-0.003
0.04	18	D	YES	+/-0.003
0.04 x 0.1	3	B	YES	+/-0.003
0.047 x 0.1	3	C	YES	+/-0.003
0.047	15	E	YES	+/-0.003
0.052	8	1	YES	+/-0.003
0.085	3	F	YES	+/-0.003
0.12	2	G	YES	+/-0.003
0.028	1	H	NO	+/-0.003
0.043	1	J	NO	+/-0.003
0.065	2	L	NO	+/-0.003
0.078 x 0.1	2	Z	NO	+/-0.003
0.144	6	M	NO	+/-0.005

8 LAYER CONSTRUCTION DETAIL

SCALE : NONE

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	03/21/12	FABRICATION DRAWING VIDEO DECODER EZ-EXTENDER BOARD
	CHECKED		
FINISH SEE NOTES	ENGINEERING		SIZE B DWG. NO. A0253-2010 REV. 1.0
	QUALITY		
DO NOT SCALE THIS DRAWING	MANUFACTURING		SCALE 1 : 1 SHEET 1 OF 1