

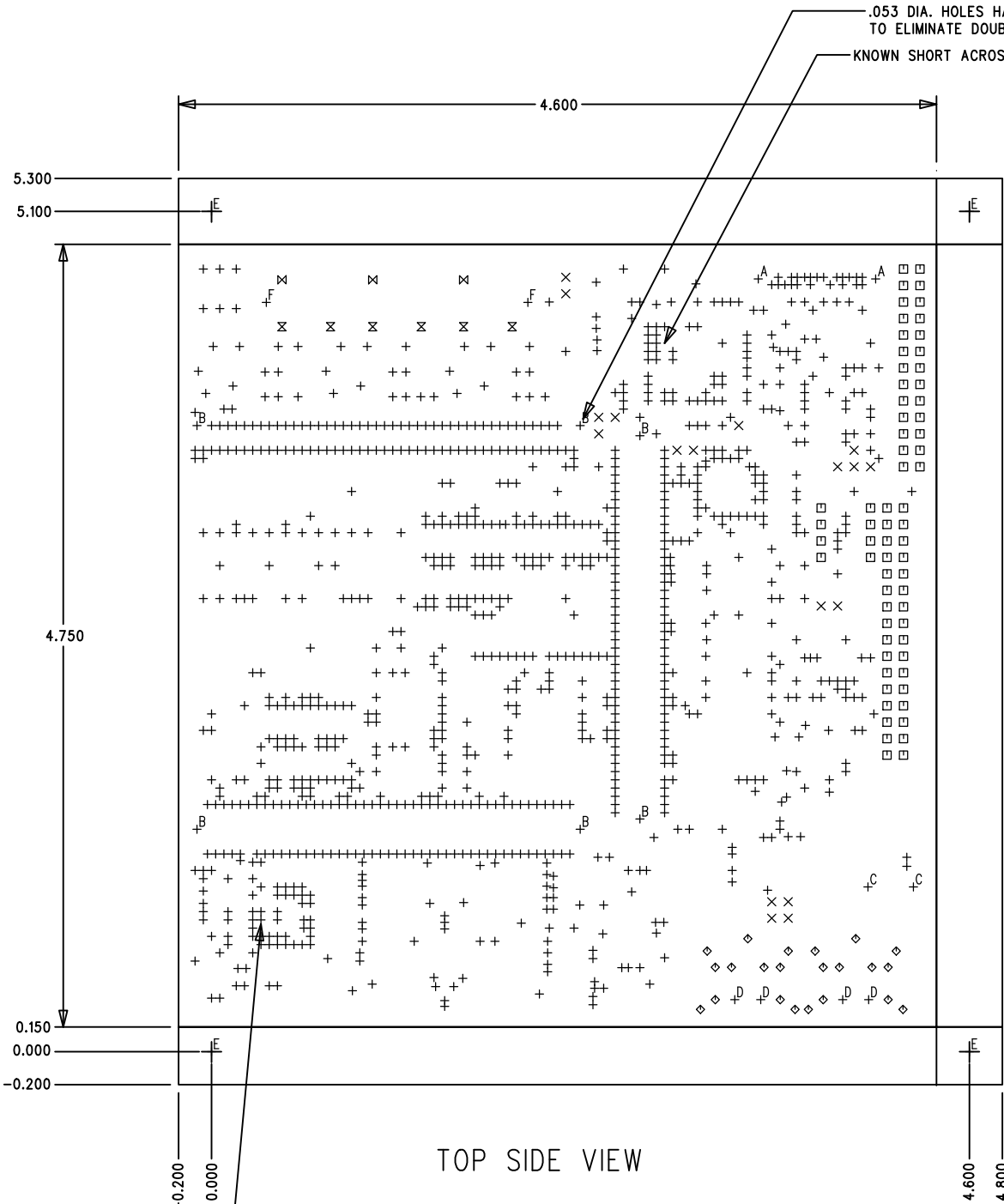
REVISIONS				
REV	DESCRIPTION OF CHANGE	DRFTR	DATE	APPROVED
1.0	NEW RELEASE		10/15/04	
1.1	RELEASE PER ECO2004-094		12/08/04	
1.2	RELEASE PER ECO2005-012		02/10/05	
2.0	REFER TO ECO2005-152		01/06/06	
2.1	REFER TO ECO2011-031		06/10/11	

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 (.055 MIN .070 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 = 0.005
MINIMUM AIR GAP = 0.005
- ALL DIMENSIONS ARE IN INCHES.
- CONTROLLED IMPEDANCE: BOARD TO BE BUILT TO YIELD CONTROLLED IMPEDANCE
OF 60 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 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 (.013) REQUIRE TANGENCY ONLY, INSTEAD OF ANNULAR RING.
- TEARDROP PADS ARE ACCEPTABLE WHERE NEEDED.
- USE IPC-D-356 NETLIST AS SUPPLIED FOR CHECKING.
- V SCORE 3 LINES ON BOTH SIDES OF THE BOARD. SEE DETAIL.

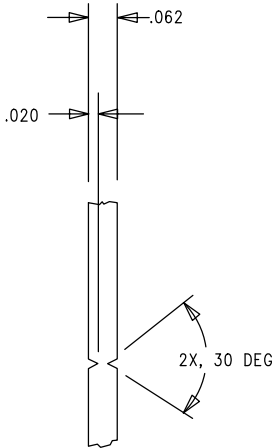
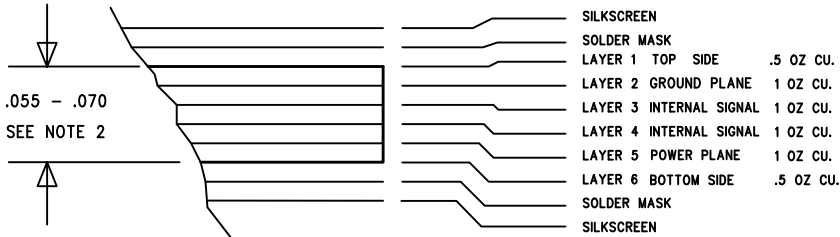
SIZE	QTY	SYM	PLATED	TOL
0.013	1056	+	YES	+0.000/-0.013
0.037	18	×	YES	+/-0.003
0.041	66	⌈	YES	+/-0.003
0.043	22	◇	YES	+/-0.003
0.051	6	⊠	YES	+/-0.003
0.059	3	⊞	YES	+/-0.003
0.051	2	+ ^A	NO	+/-0.003
0.053	6	+ ^B	NO	+0.003-0.000
0.068	2	+ ^C	NO	+/-0.003
0.117	4	+ ^D	NO	+/-0.003
0.125	4	+ ^E	NO	+/-0.005
0.14	2	+ ^F	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	DRAWN	FREEDOMCAD	06/10/11	FABRICATION DRAWING BLACKFIN A-V EZ-EXTENDER
SEE NOTES	CHECKED			
FINISH	ENGINEERING			
SEE NOTES	QUALITY			SIZE B
DO NOT SCALE THIS DRAWING	MANUFACTURING			DWG. NO. A0193-2004
		SCALE	1 : 1	SHEET 1 OF 1



KNOWN SHORT ACROSS GND & AGND ON BOTTOM SIDE

6 LAYER CONSTRUCTION DETAIL
SCALE : NONE



SCORING DETAIL