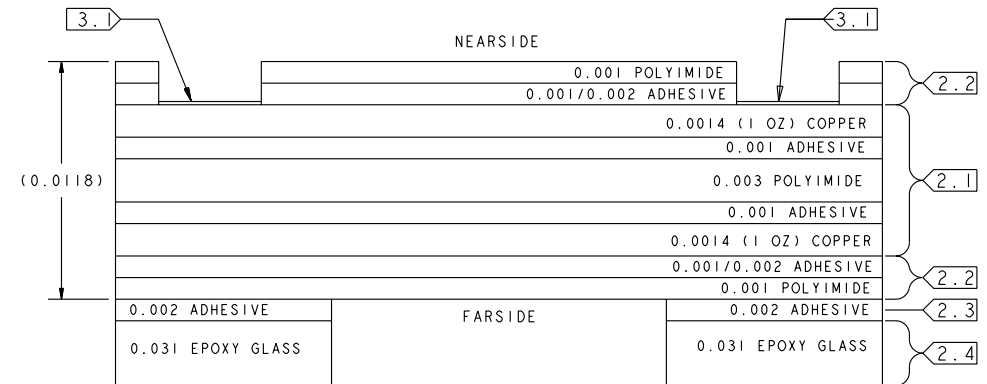PRODUCT NUMBER

10074499-001
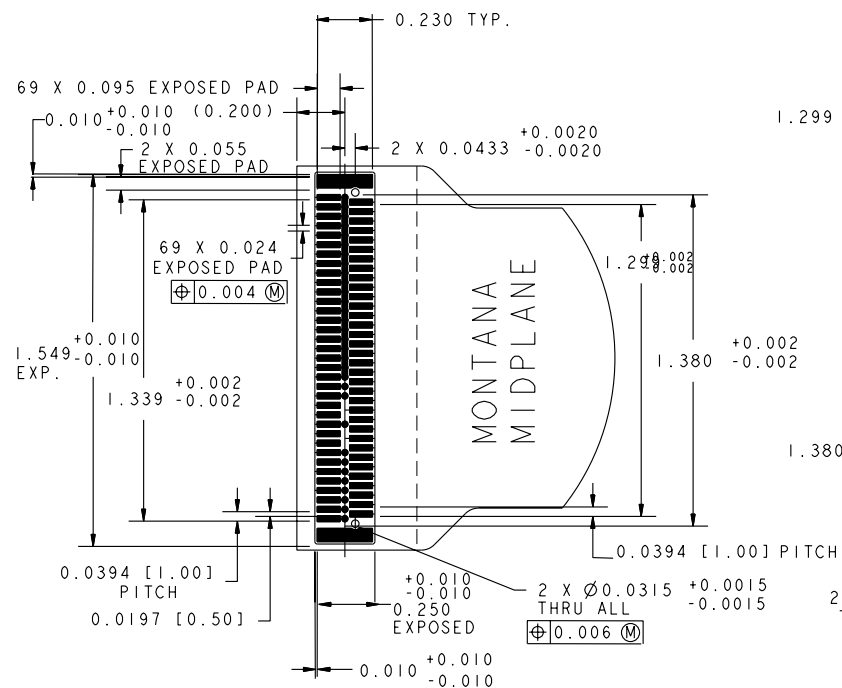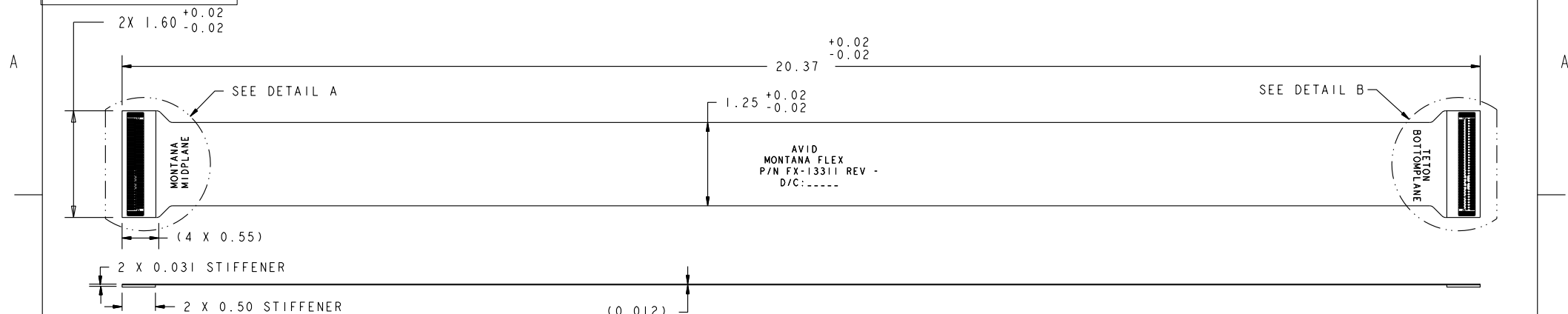
NOTES:
1.0 FLEXIBLE PRINTED CIRCUIT TO BE BUILT IN ACCORDANCE WITH
     IPC-6013 CLASS 2 SPECIFICATIONS.
2.0 MATERIALS:
     2.1 BASE LAMINATE: METAL CLAD FLEXIBLE DIELECTRIC PER
          IPC-4204/1 E1E3M1/1 CU-W7-1/1.   USE FR ADHESIVE.
     2.2 COVER LAYER: ADHESIVE COATED DIELECTRIC FILM PER
          IPC-4203/1 E1E1Mx/0 (x = 1 OR 2 AS REQ'D). USE FR
          ADHESIVE.
     2.3 ADHESIVE: UNSUPPORTED ACRYLIC ADHESIVE PER
          IPC-4203/18 0000M2. USE FR ADHESIVE.
     2.4 STIFFENER: UNCLAD EPOXY GLASS PER IPC-4101/21
3.0 FINISH:
     3.1 EXPOSED PADS TO BE SOLDERCOATED AND REFLOWED WITH
          63/37 TIN/LEAD TO A MIN THICKNESS OF 0.0003 AND A MAX
          THICKNESS OF 0.0020 MEASURED AT THE SOLDER CREST.
4.0 MIN CONDUCTOR WIDTH SHALL BE 0.004
5.0 MIN CONDUCTOR SPACE SHALL BE 0.008
6.0 COPPER PLATING:
     6.1 SELECTIVELY (BUTTON) PLATE APPROXIMATELY 0.001 THICK.
          MINIMUM COPPER IN HOLES SHALL BE 0.0007. ALL HOLES LESS
          THAN 0.020 DIA. MAY BE PLUGGED.
7.0 MARKING:
     7.1 MARK PARTS AS INDICATED ON SHEET 5 OF 5 USING
          PERMANENT WHITE EPOXY INK.
8.0 DIMENSIONS NOT SPECIFIED SHALL BE DEFINED BY ELECTRONIC
     DATA FILE 13311.DXF.
9.0 CIRCUIT OUTLINE MAY BE LASER CUT. FLEX CIRCUIT
     VENDOR SHALL PROVIDE A MINIMUM OF 2 ETCHED LASER
     REGISTRATION FIDUCIALS PER PART ON THE PANEL.
10.0 ALL DIMENSIONS APPLY AFTER ETCHING. FLEX CIRCUIT VENDOR
     MAY ADJUST ARTWORK TO COMPENSATE FOR ETCH LOSS AND
     MANUFACTURING PROCESS TOLERANCES.
11.0 THE CHARACTERISTIC IMPEDANCE OF THE DIFFERENTIAL PAIRS
     SHALL BE A NOMINAL 100 OHMS. SKEW BETWEEN PAIRS IS NOT
     SPECIFIED.

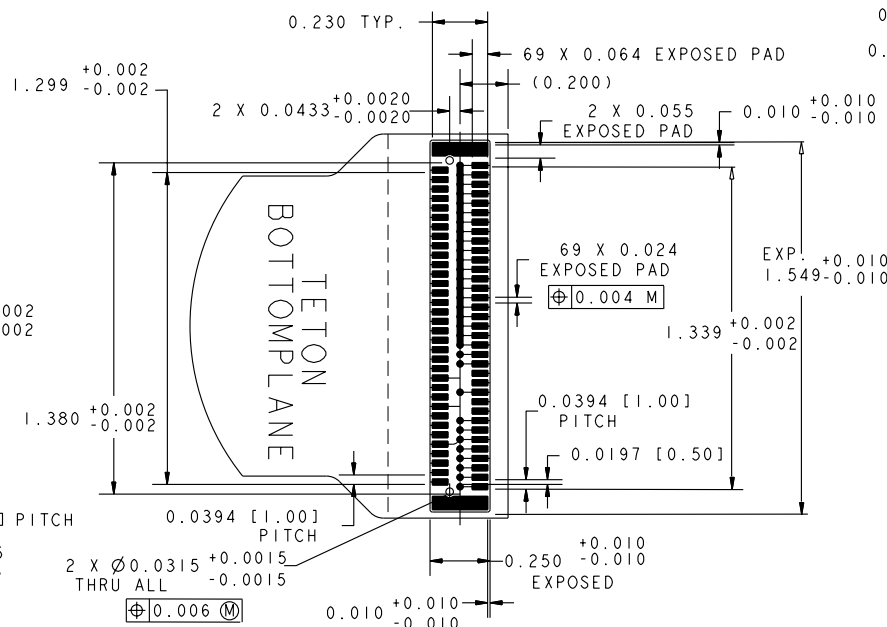12.0 THIS DRAWING IS NOT TO SCALE IS FOR DESIGN REFERENCE ONLY.

NEARSIDE

3.1   3.1

0.001 POLYIMIDE
0.001/0.002 ADHESIVE   2.2

0.0014 (1 OZ) COPPER
0.001 ADHESIVE
0.003 POLYIMIDE   2.1
0.001 ADHESIVE
0.0014 (1 OZ) COPPER
0.001/0.002 ADHESIVE
0.001 POLYIMIDE   2.2

(0.0118)

0.002 ADHESIVE   FARSIDE   0.002 ADHESIVE   2.3

0.031 EPOXY GLASS   0.031 EPOXY GLASS   2.4

www.fciconnect.com

surface — tolerance std   projection   INCH
TOLERANCES UNLESS OTHERWISE SPECIFIED

rev	ecn no	dr	date
A	V07-0037	DAI	2007-01-19
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Dr	D.INGRAM	2007-01-19	
Eng	J.DUARTE	2007-01-19	ANGULAR LINEAR
Chr	J.DUARTE	2007-01-19	0° ±°
Appr	J.DUARTE	2007-01-19	Product family

	0.X	±
	0.XX	±
	0.XXX	±

size A4   Scale NTS
ECN V07-0037
Spec ref -

title FLEX CIRCUIT CABLE ASSEMBLY

dwg no 10074499   Rev. A

catalog no   -

CUSTOMER   sheet 1 of 6

REV F - 2006-04-17

PRODUCT NUMBER

10074499-001

2X 1.60 +0.02 / -0.02

20.37 +0.02 / -0.02

SEE DETAIL A

SEE DETAIL B

1.25 +0.02 / -0.02

MONTANA MIDPLANE

AVID
MONTANA FLEX
P/N FX-13311 REV -
D/C:_____

TETON BOTTOMPLANE

(4 X 0.55)

2 X 0.031 STIFFENER

2 X 0.50 STIFFENER

(0.012)

DETAIL A
NTS

0.230 TYP.

69 X 0.095 EXPOSED PAD

0.010 +0.010 / -0.010 (0.200)

2 X 0.055 EXPOSED PAD

2 X 0.0433 +0.0020 / -0.0020

69 X 0.024 EXPOSED PAD
⊕ 0.004 Ⓜ

MONTANA MIDPLANE

1.299 +0.002 / -0.002

1.380 +0.002 / -0.002

1.549 +0.010 / -0.010 EXP.

1.339 +0.002 / -0.002

0.0394 [1.00] PITCH

0.0197 [0.50]

0.250 EXPOSED

2 X Ø0.0315 +0.0015 / -0.0015 THRU ALL
⊕ 0.006 Ⓜ

0.0394 [1.00] PITCH

0.010 +0.010 / -0.010

DETAIL B
NTS

0.230 TYP.

69 X 0.064 EXPOSED PAD

1.299 +0.002 / -0.002

2 X 0.0433 +0.0020 / -0.0020

(0.200)

2 X 0.055 EXPOSED PAD

0.010 +0.010 / -0.010

TETON BOTTOMPLANE

69 X 0.024 EXPOSED PAD
⊕ 0.004 M

EXP. 1.549 +0.010 / -0.010

1.380 +0.002 / -0.002

1.339 +0.002 / -0.002

0.0394 [1.00] PITCH

0.0197 [0.50]

2 X Ø0.0315 +0.0015 / -0.0015 THRU ALL
⊕ 0.006 Ⓜ

0.0394 [1.00] PITCH

0.250 EXPOSED

0.010 +0.010 / -0.010

DETAIL C
EPOXY GLASS STIFFENER
NTS

0.50

(0.110)

0.243

0.031

1.60

1.380

Ø0.063 THRU

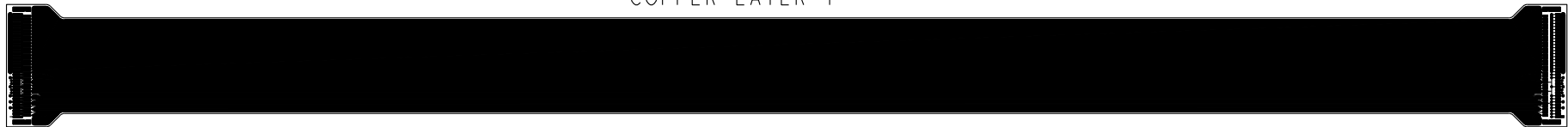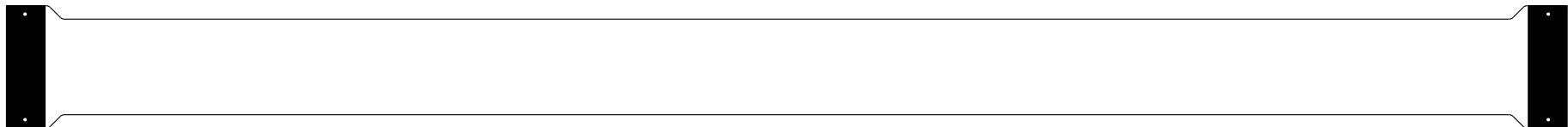| title FLEX CIRCUIT CABLE ASSEMBLY	dwg no	10074499	Rev. A
catalog no	-	CUSTOMER	sheet 2 of 6

PRODUCT NUMBER

10074499-001

(NEARSIDE)
COPPER LAYER 1

A

B

C

ALL LAYERS VIEWED FROM NEARSIDE

D

title	FLEX CIRCUIT CABLE ASSEMBLY	dwg no	10074499	Rev. A
catalog no		-	CUSTOMER	sheet 3 of 6

PDM: Rev:A   STATUS:Released   Printed: Jun 09, 2007

PRODUCT NUMBER

10074499-001

DETAIL C
NTS

SEE DETAIL C

COPPER LAYER 2

(FAR SIDE)

title	FLEX CIRCUIT CABLE ASSEMBLY	dwg no	10074499	Rev.
				A
catalog no		-	CUSTOMER	sheet 4 of 6

REV F - 2006-04-17

COVER FILM

COVER FILM
(FARSIDE)

BUTTON PLATE-SIDE 1
(NEARSIDE)

title FLEX CIRCUIT CABLE ASSEMBLY	dwg no 10074499	Rev. A
catalog no	–	CUSTOMER	sheet 5 of 6

REV F - 2006-04-17

PRODUCT NUMBER

10074499-001

BUTTON PLATE - SIDE 2

(FARSIDE)

MONTANA
MIDPLANE

AVID
MONTANA FLEX
P/N FX-13311 REV -
D/C:_____

TETON
BOTTOMPLANE
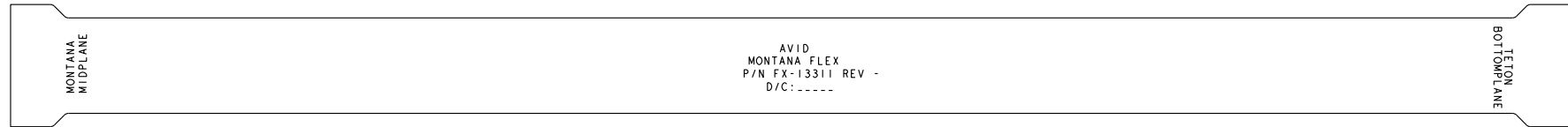
SILKSCREEN
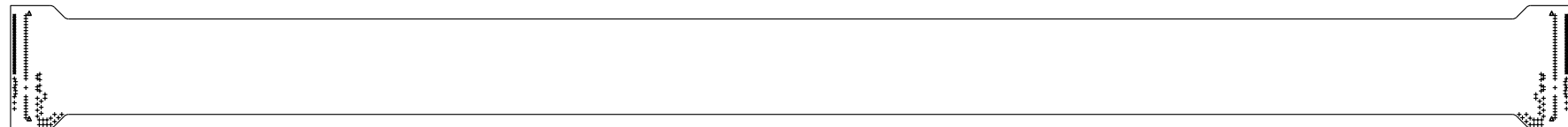
(NEARSIDE)

DRILL
ALL LAYERS VIEWED FROM NEARSIDE

HOLE TABLE				
HOLE	Ø	QTY	TOL.	PLATED
△	Ø.0315	4	+/-0.0015	NO
×	Ø.0310	40	+/-0.003	YES
+	Ø.0100	138	+0.003/-0.010	YES

title	FLEX CIRCUIT CABLE ASSEMBLY	dwg no	10074499	Rev.
				A
catalog no		-	CUSTOMER	sheet 6 of 6

REV F - 2006-04-17

Printed: Jun 09, 2007