

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0760151125

Status:

Active

Overview:

gbx_itrac_backplane_connector_system

Description:

1.85mm by 3.70mm (.073" by .146") Pitch, GbX I-Trac™ Vertical Header Module, Unguided, Dual End Walls, 7 Rows, 10 Columns, 140 Circuits, Staggered Mating Pin Length 4.70mm (.185") & 5.70mm (.224"), Lead Free

Documents:

3D Model

Drawing (PDF)

Product Specification PS-75710-999 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

UL

E29179

General

Product Family

Series

Application

Application Tooling Documents

Component Type

More Detailed Tech Information

Overview

Product Name

Style

Backplane Connectors

76015

Backplane, Midplane, Orthogonal

Tooling Manual

PCB Header

I-Trac@molex.com

gbx_itrac_backplane_connector_system

GbX I-Trac™

N/A

Physical

Circuits (Loaded)

Circuits (maximum)

Color - Resin

Durability (mating cycles max)

First Mate / Last Break

Flammability

Guide to Mating Part

Keying to Mating Part

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Columns

Number of Pairs

Number of Rows

Orientation

PC Tail Length (in)

PC Tail Length (mm)

PCB Locator

PCB Retention

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

140

140

Black

200

Yes

94V-0

No

None

High Performance Alloy (HPA)

Gold

Tin

High Temperature Thermoplastic

10

4, Open Pin Field

7

Vertical

0.083 In

2.10 mm

No

None

0.063 In

1.60 mm

Tray

0.073 In, 0.146 In

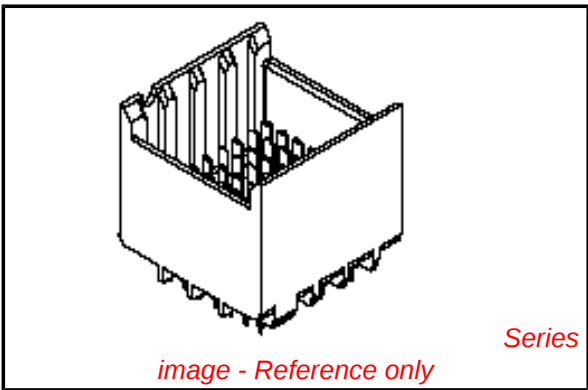
1.85 mm, 3.70 mm

0.039 In, 0.106 In

1.00 mm, 2.70 mm

30.4

0.76



EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email productcompliance@molex.com

For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

76015Series

Mates With

76020 GbX I-Trac™ Right Angle Receptacle Module

Use With

78227 GbX I-Trac™ Vertical Power Receptacle. 75234 Backplane Free Standing Guide Pin

Application Tooling | FAQ

Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.

Global

Description

Product #

Press-In Tool, GbX I-Trac™ Vertical Header 7 Row, 10 Column

0622018609

Plating min: Termination (μin)	30.4
Plating min: Termination (μm)	0.76
Polarized to PCB	No
Stackable	Yes
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	85°C
Termination Interface: Style	Through Hole - Compliant Pin

Electrical

Current - Maximum per Contact	1A
Data Rate	12.0 Gbps
Shield Type	N/A
Shielded	No
Voltage - Maximum	120V AC (RMS)/DC

Material Info

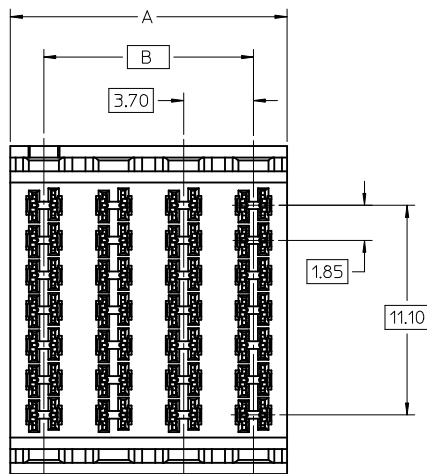
Reference - Drawing Numbers

Packaging Specification	PK-70873-802
Product Specification	PS-75710-999
Sales Drawing	SD-76015-001

Backplane Insertion	<u>0621005110</u>
Tool, GbX I-Trac™	
Signal Contact	
Insertion	

This document was generated on 05/14/2010

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76015-****

MODULE TYPE -- TAIL PLATING TYPE

UNGUIDED -- TIN/LEAD = 0

UNGUIDED -- TIN ONLY = 1

OF COLUMNS

4 = 4 COL

6 = 6 COL

1 = 10 COL

PIN LENGTH (P)

2 = 3.90

3 = 4.70

4 = 5.70

5 = 4.70 & 5.70

STAGGERED

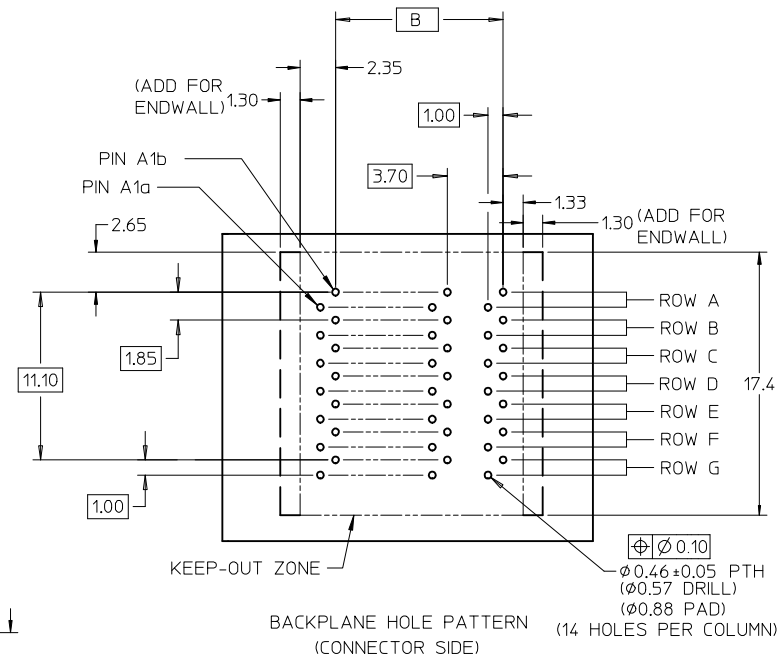
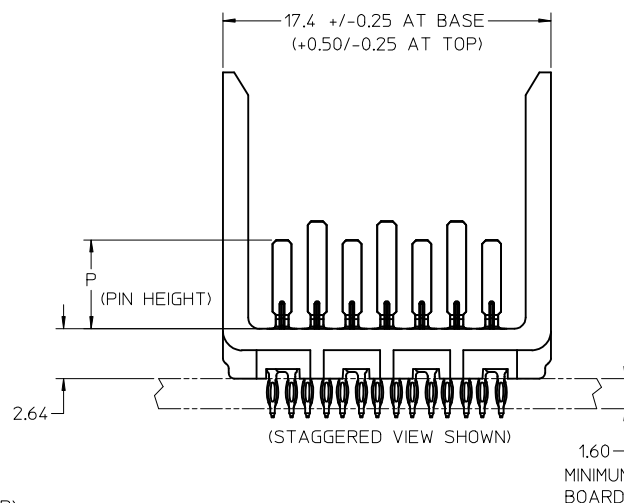
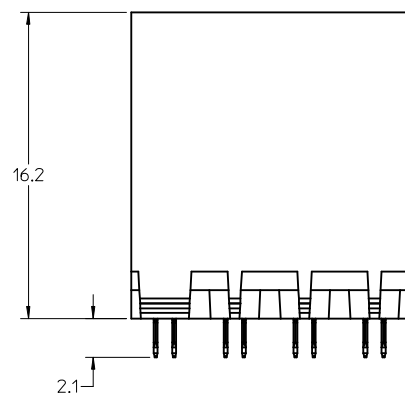
PART SYTLE

0 = OPEN ENDS

1 = LEFT END WALL

2 = DUAL END WALL

3 = RIGHT END WALL



NOTES:

1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP)
GLASS-FILLED, UL94V-0
TERMINALS - HIGH PERFORMANCE COPPER ALLOY
2. FINISH: 30uIN MIN. GOLD IN CONTACT AREA.
SELECTIVE TIN/LEAD OR SELECTIVE TIN
ON PCB TAILS. NICKEL OVERALL.
3. REFER TO MOLEX PRODUCT SPECIFICATION PS-75710-999
FOR PERFORMANCE SPECIFICATIONS.
4. FOR MIXED CONTACT MATING LENGTHS, CONSULT MOLEX
FOR AVAILABILITY.
5. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF
MOLEX COSMETIC SPEC PS-45499-002
6. PACKAGE PER: PK-70873-802.
7. REFER TO PCB ROUTING GUIDE FOR ANTIPAD AND
ROUTING RECOMMENDATIONS.

REVISE SHEETS 3 & 4
EC NO: UCP2009-2507
2009/04/16
DRWN: C STEWART
CHKD: J BINGHAM
2009/04/17
APPR: J BINGHAM
2009/04/17

QUALITY
SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 1/2°		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY
BPISZCZOR

DATE
2007/01/25

CHECKED BY
JLAURX

DATE
2007/02/06

APPROVED BY
CBIXLER

DATE
2007/02/06

MATERIAL NO.

SIZE
C

SEE CHART

SCALE
5:1

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

TITLE
I-TRAC BACKPLANE 7 ROW
UNGUIDED ASSEMBLY
SALES DRAWING

MOLEX MOLEX INCORPORATED

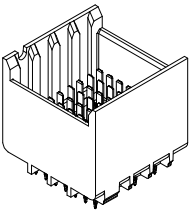
DOCUMENT NO.
SD-76015-001

SHEET NO.
1 OF 4

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

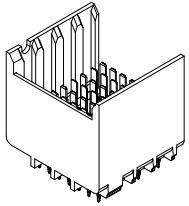
MATERIAL NUMBER	# OF COLUMNS	DIM "A"	DIM "B"
76015- $\times$ 42 $\times$	4	17.3	11.10
76015- $\times$ 62 $\times$	6	24.7	18.50
76015- $\times$ 12 $\times$	10	39.5	33.30

DUAL END STYLE



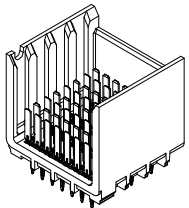
MATERIAL NUMBER	# OF COLUMNS	DIM "A"	DIM "B"
76015- $\times$ 41 $\times$	4	16.0	11.10
76015- $\times$ 61 $\times$	6	23.4	18.50
76015- $\times$ 11 $\times$	10	38.2	33.30

LEFT END STYLE



MATERIAL NUMBER	# OF COLUMNS	DIM "A"	DIM "B"
76015- $\times$ 43 $\times$	4	16.0	11.10
76015- $\times$ 63 $\times$	6	23.4	18.50
76015- $\times$ 13 $\times$	10	38.2	33.30

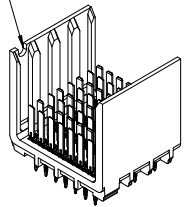
RIGHT END STYLE



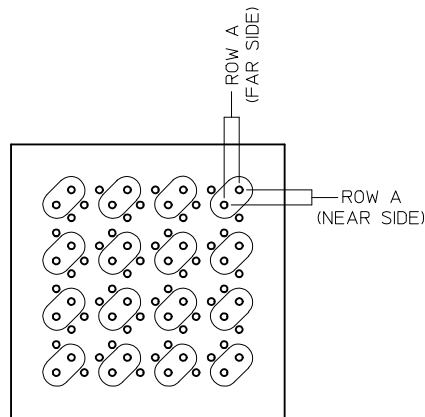
MATERIAL NUMBER	# OF COLUMNS	DIM "A"	DIM "B"
76015- $\times$ 40 $\times$	4	14.7	11.10
76015- $\times$ 60 $\times$	6	22.1	18.50
76015- $\times$ 10 $\times$	10	36.9	33.30

OPEN END STYLE

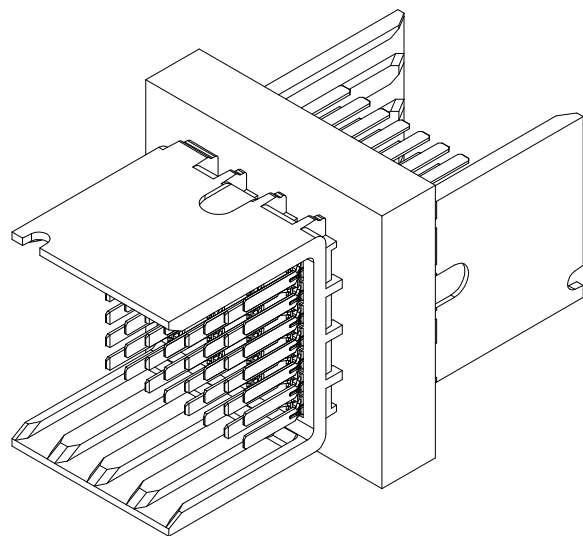
NOTCH DESIGNATES
ROW A



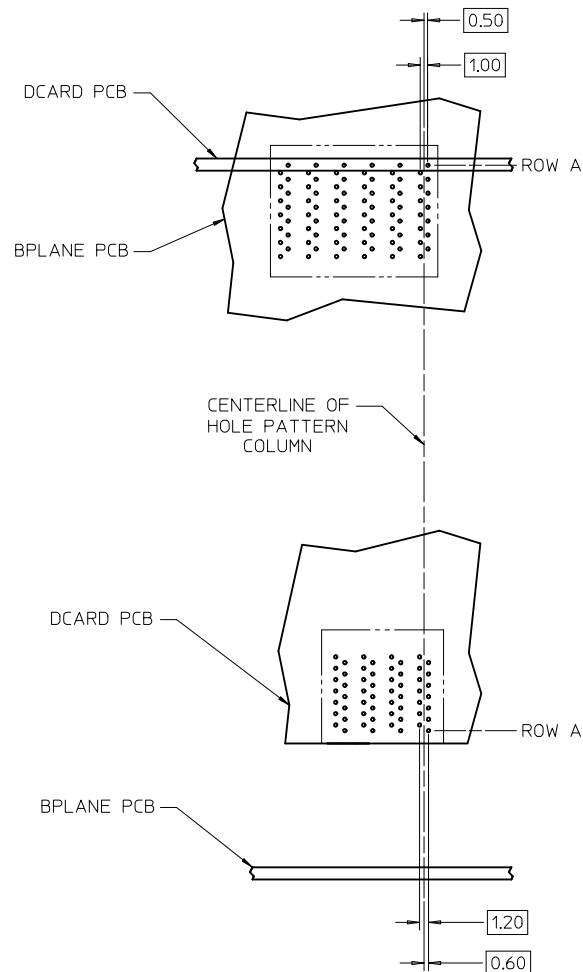
SEE SHEET ONE EC NO: UCP2009-2507 DRAWN: C STEWART 2009/04/16 CHKD: J B INGHAM 2009/04/17 APPR: J B INGHAM 2009/04/17	REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
					mm	INCH	DRAWN BY BPISZCZOR	DATE 2007/01/25	TITLE I-TRAC BACKPLANE 7 ROW UNGUIDED ASSEMBLY SALES DRAWING					
				4 PLACES	± ---	± ---	CHECKED BY JLAURX	DATE 2007/02/06						
				3 PLACES	± ---	± ---	APPROVED BY CBIXLER	DATE 2007/02/06						
				2 PLACES	± 0.13	± ---	ANGULAR ±1/2°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
				1 PLACE	± 0.25	± ---			SEE CHART		SD-76015-001		2 OF 4	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						



ORTHOGONAL MIDPLANE HOLE PATTERN
(16 SIGNAL PAIRS SHARE VIAS)

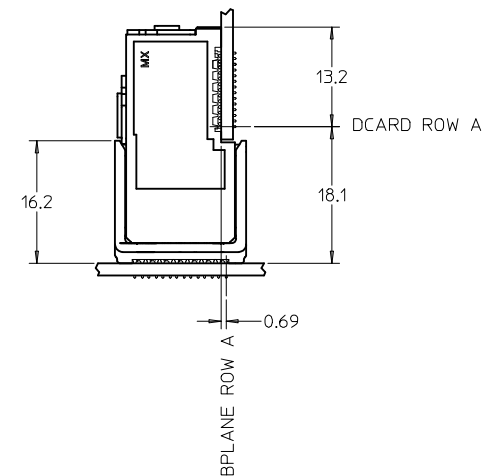


16 PAIR ORTHOGONAL MIDPLANE NODE
(USES TWO 4 COLUMN 7 ROW HEADERS)

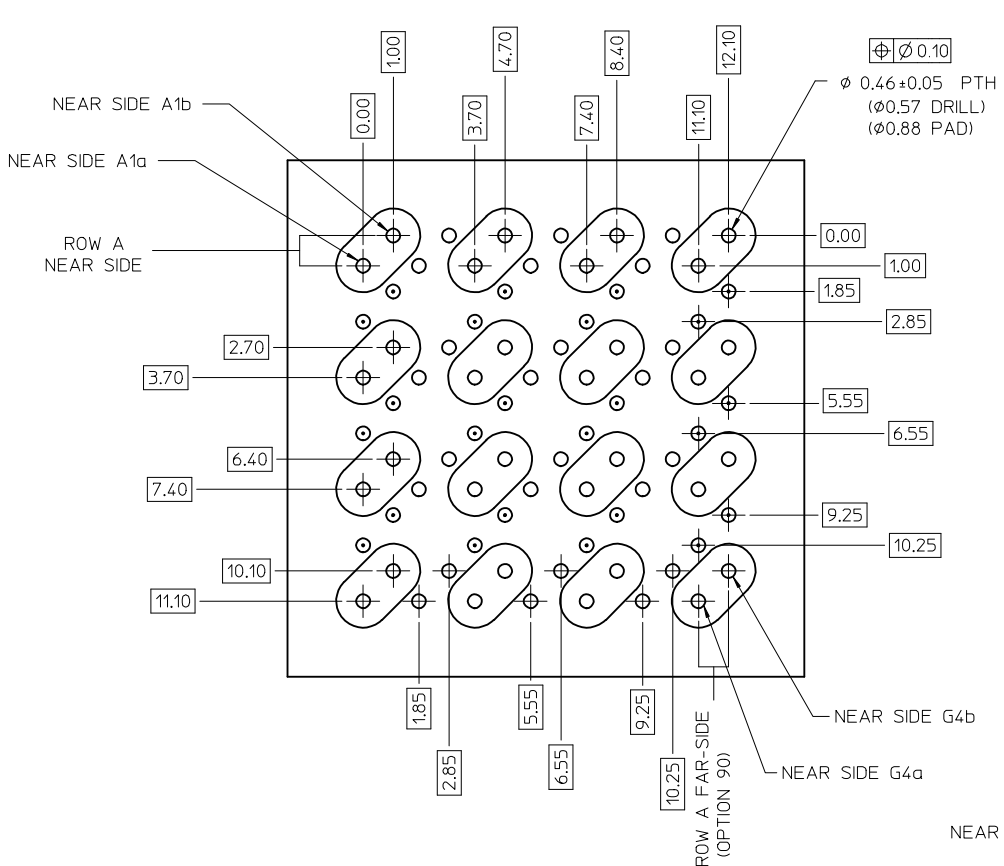


7 ROW I-TRAC BOARD RELATIONSHIPS

SCALE 2:1



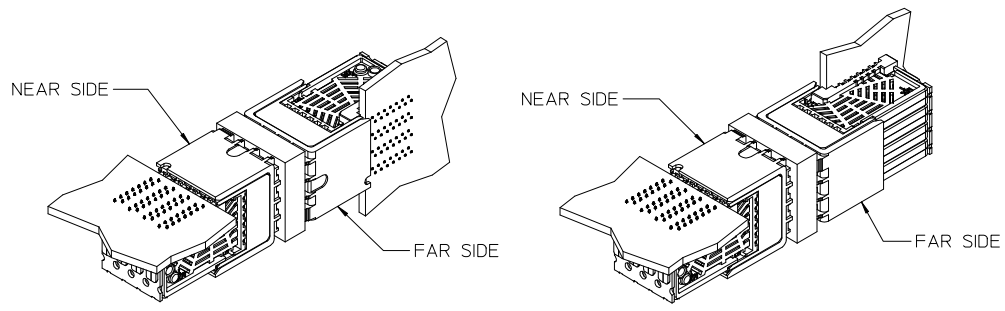
REV ORTHO HOLE PATTERN EC NO: UCP2009-2507 DRWN: STEWART 2009/04/16 CHKD: BINGHAM 2009/04/17 APPR: BINGHAM 2009/04/17	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY BPISZCZOR	DATE 2007/01/25	TITLE I-TRAC BACKPLANE 7 ROW UNGUIDED ASSEMBLY SALES DRAWING					
			4 PLACES	± ---	± ---	CHECKED BY JLAURX	DATE 2007/02/06	MOLEX MOLEX INCORPORATED					
			3 PLACES	± ---	± ---	APPROVED BY CBIXLER	DATE 2007/02/06						
			2 PLACES	± 0.13	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
			1 PLACE	± 0.25	± ---	SEE CHART		SD-76015-001		3 OF 4			
			ANGULAR ±1/2°										
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							



Orthogonal PCB Layout

ORTHO PIN MAPPING			
OPTION 90 (NEAR SIDE - FAR SIDE)			
A1b-G4b	A2b-E4b	A3b-C4b	A4b-A4b
A1a-G4a	A2a-E4a	A3a-C4a	A4a-A4a
C1b-G3b	C2b-E3b	C3b-C3b	C4b-A3b
C1a-G3a	C2a-E3a	C3a-C3a	C4a-A3a
E1b-G2b	E2b-E2b	E3b-C2b	E4b-A2b
E1a-G2a	E2a-E2a	E3a-C2a	E4a-A2a
G1b-G1b	G2b-E1b	G3b-C1b	G4b-A1b
G1a-G1a	G2a-E1a	G3a-C1a	G4a-A1a

ORTHO PIN MAPPING			
OPTION 270 (NEAR SIDE - FAR SIDE)			
A1b-A1a	A2b-C1a	A3b-E1a	A4b-G1a
A1a-A1b	A2a-C1b	A3a-E1b	A4a-G1b
C1b-A2a	C2b-C2a	C3b-E2a	C4b-G2a
C1a-A2b	C2a-C2b	C3a-E2b	C4a-G2b
E1b-A3a	E2b-C3a	E3b-E3a	E4b-G3a
E1a-A3b	E2a-C3b	E3a-E3b	E4a-G3b
G1b-A4a	G2b-C4a	G3b-E4a	G4b-G4a
G1a-A4b	G2a-C4b	G3a-E4b	G4a-G4b



OPTION 90

OPTION 270

NOTES:



- NEAR SIDE GROUNDS
- FAR SIDE GROUNDS

REV ORTHO PCB LAYOUT EC NO: UCP2009-2507 DRWN: STEWART 2009/04/16 CHKD: BINGHAM 2009/04/17 APPR: BINGHAM 2009/04/17 D	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION					
				mm	INCH	DRAWN BY BPISZCZOR	DATE 2007/01/25	TITLE I-TRAC BACKPLANE 7 ROW UNGUIDED ASSEMBLY SALES DRAWING						
			4 PLACES	± ---	± ---	CHECKED BY JLAURX	DATE 2007/02/06							
			3 PLACES	± ---	± ---	APPROVED BY CBIXLER		DATE 2007/02/06		MOLEX INCORPORATED				
			2 PLACES	± 0.13	± ---									
			1 PLACE	± 0.25	± ---	ANGULAR ± 1/2°		MATERIAL NO. SEE CHART						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									