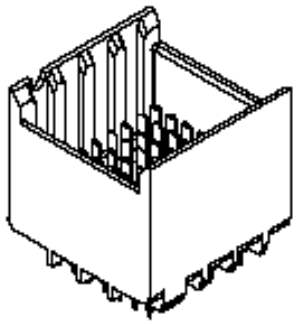
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This document was generated on 05/14/2010

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



Series image - Reference only

Documents:

- 3D Model
- Drawing (PDF)
- Product Specification PS-75710-999 (PDF)
- RoHS Certificate of Compliance (PDF)

Agency Certification

UL	E29179

General

Product Family	Backplane Connectors
Series	76015
Application	Backplane, Midplane, Orthogonal
Application Tooling Documents	Tooling Manual
Component Type	PCB Header
More Detailed Tech Information	I-Trac@molex.com
Overview	gbx_itrac_backplane_connector_system
Product Name	GbX I-Trac™
Style	N/A

Physical

Circuits (Loaded)	140
Circuits (maximum)	140
Color - Resin	Black
Durability (mating cycles max)	200
First Mate / Last Break	Yes
Flammability	94V-0
Guide to Mating Part	No
Keying to Mating Part	None
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Columns	10
Number of Pairs	4, Open Pin Field
Number of Rows	7
Orientation	Vertical
PC Tail Length (in)	0.083 In
PC Tail Length (mm)	2.10 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.063 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.073 In, 0.146 In
Pitch - Mating Interface (mm)	1.85 mm, 3.70 mm
Pitch - Term. Interface (in)	0.039 In, 0.106 In
Pitch - Term. Interface (mm)	1.00 mm, 2.70 mm
Plating min: Mating (µin)	30.4
Plating min: Mating (µm)	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

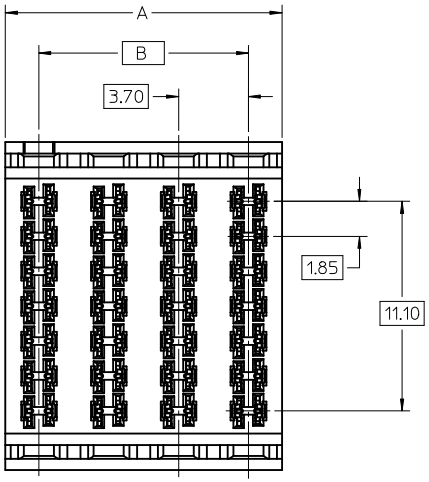
Current - Maximum per Contact	1A
Data Rate	12.0 Gbps
Shield Type	N/A
Shielded	No
Voltage - Maximum	120V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

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

Backplane Insertion 0621005110 Tool, GbX I-Trac™ Signal Contact Insertion



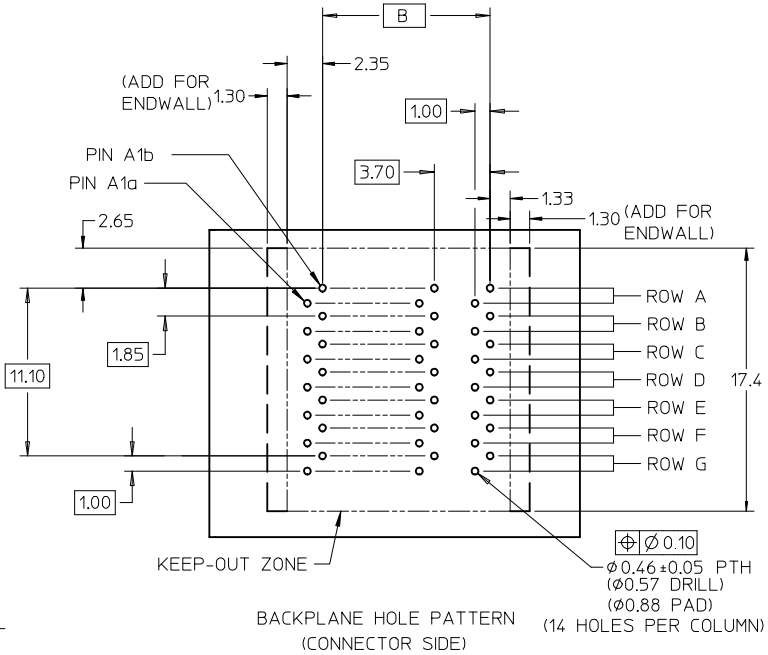
76015-****

MODULE TYPE -- TAIL PLATING TYPE
UNGUIDED -- TIN/LEAD = 0
UNGUIDED -- TIN ONLY = 1

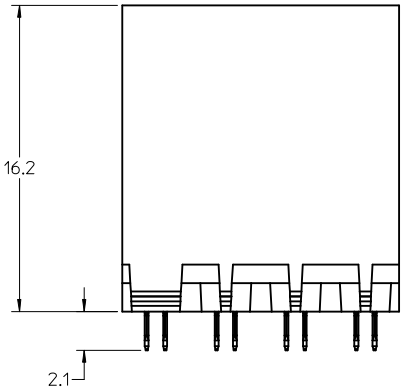
# OF COLUMNS
4 = 4 COL
6 = 6 COL
1 = 10 COL

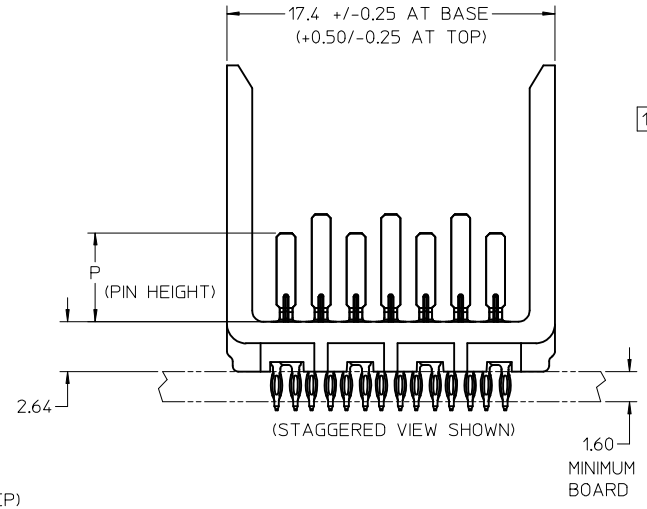
PART SYTLE
0 = OPEN ENDS
1 = LEFT END WALL
2 = DUAL END WALL
3 = RIGHT END WALL

PIN LENGTH (P)
2 = 3.90
3 = 4.70
4 = 5.70
5 = 4.70 & 5.70 STAGGERED



BACKPLANE HOLE PATTERN
(CONNECTOR SIDE)





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 AVAILABLITY.
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
DRWN: CSTEWART 2009/04/16
CH'KD: JB INGHAM 2009/04/17
APPR: JB INGHAM 2009/04/17
DESCRIPTION
REV: D

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
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY	BPISZCZOR	DATE 2007/01/25
CHECKED BY	JLAURX	DATE 2007/02/06
APPROVED BY	CBIXLER	DATE 2007/02/06

TITLE: I-TRAC BACKPLANE 7 ROW UNGUIDED ASSEMBLY SALES DRAWING

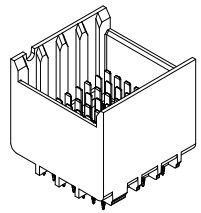
molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-76015-001
SHEET NO.: 1 OF 4
SIZE: C

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

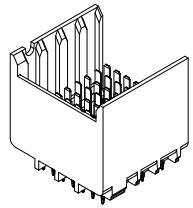
MATERIAL NUMBER	# OF COLUMNS	DIM "A"	DIM "B"
76015-*42*	4	17.3	11.10
76015-*62*	6	24.7	18.50
76015-*12*	10	39.5	33.30

DUAL END STYLE



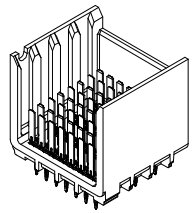
MATERIAL NUMBER	# OF COLUMNS	DIM "A"	DIM "B"
76015-*41*	4	16.0	11.10
76015-*61*	6	23.4	18.50
76015-*11*	10	38.2	33.30

LEFT END STYLE



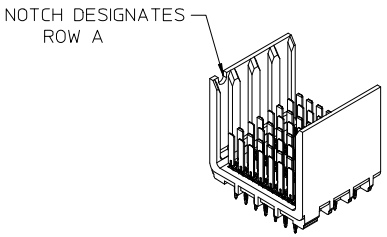
MATERIAL NUMBER	# OF COLUMNS	DIM "A"	DIM "B"
76015-*43*	4	16.0	11.10
76015-*63*	6	23.4	18.50
76015-*13*	10	38.2	33.30

RIGHT END STYLE



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

OPEN END STYLE



SEE SHEET ONE
EC NO: UCP2009-2507 2009/04/16
DRWN:CSTEWART 2009/04/17
CH'KD:JBINGHAM
APPR:JBINGHAM
DESCRIPTION
REV
D

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
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

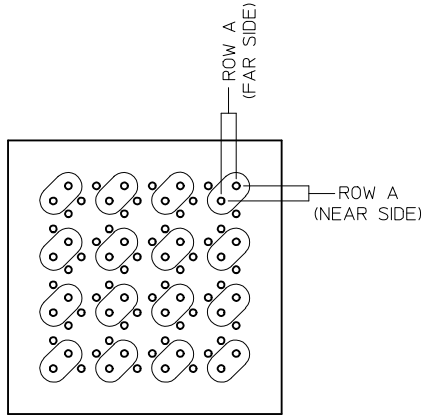
		DATE
DRAWN BY	BPISZCZOR	2007/01/25
CHECKED BY	JLAURX	2007/02/06
APPROVED BY	CBIXLER	2007/02/06

TITLE: I-TRAC BACKPLANE 7 ROW UNGUIDED ASSEMBLY SALES DRAWING

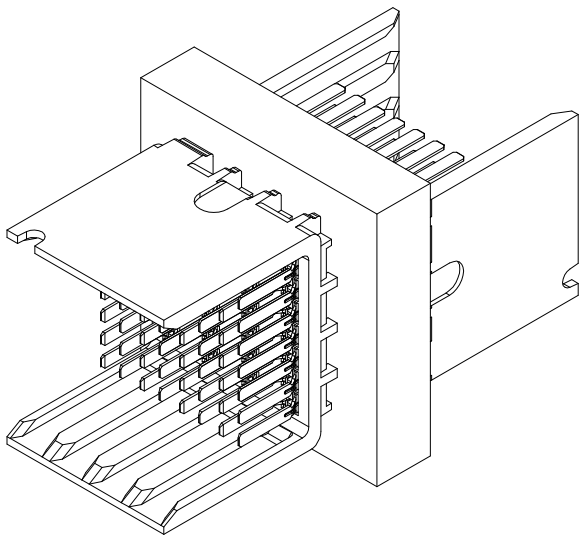
MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-76015-001
SHEET NO.: 2 OF 4
SIZE: C

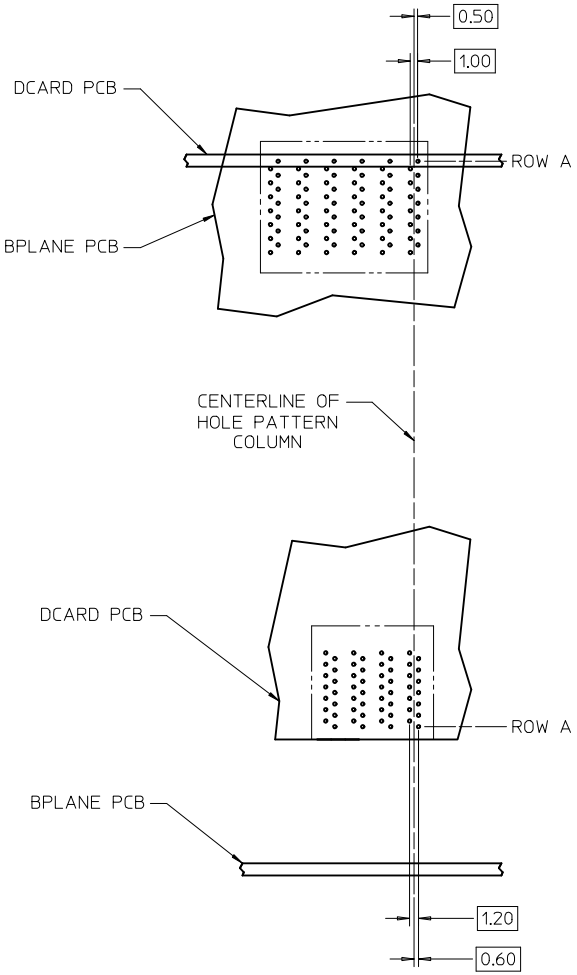
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ORTHOGONAL MIDPLANE HOLE PATTERN
(16 SIGNAL PAIRS SHARE VIAS)

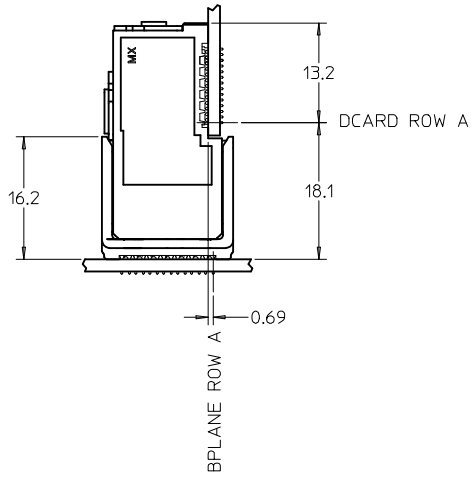


16 PAIR ORTHOGONAL MIDPLANE NODE
(USES TWO 4 COLUMN 7 ROW HEADERS)



7 ROW I-TRAC BOARD RELATIONSHIPS

SCALE 2:1



REV	DESCRIPTION	DATE
ORTHO HOLE PATTERN	EC NO: UCP2009-2507	2009/04/16
	DRWN: CSTEWART	2009/04/17
	CHKD: JBINGHAM	2009/04/17
	APPR: JBINGHAM	
D		

QUALITY SYMBOLS
▼=0
▽(C)=0

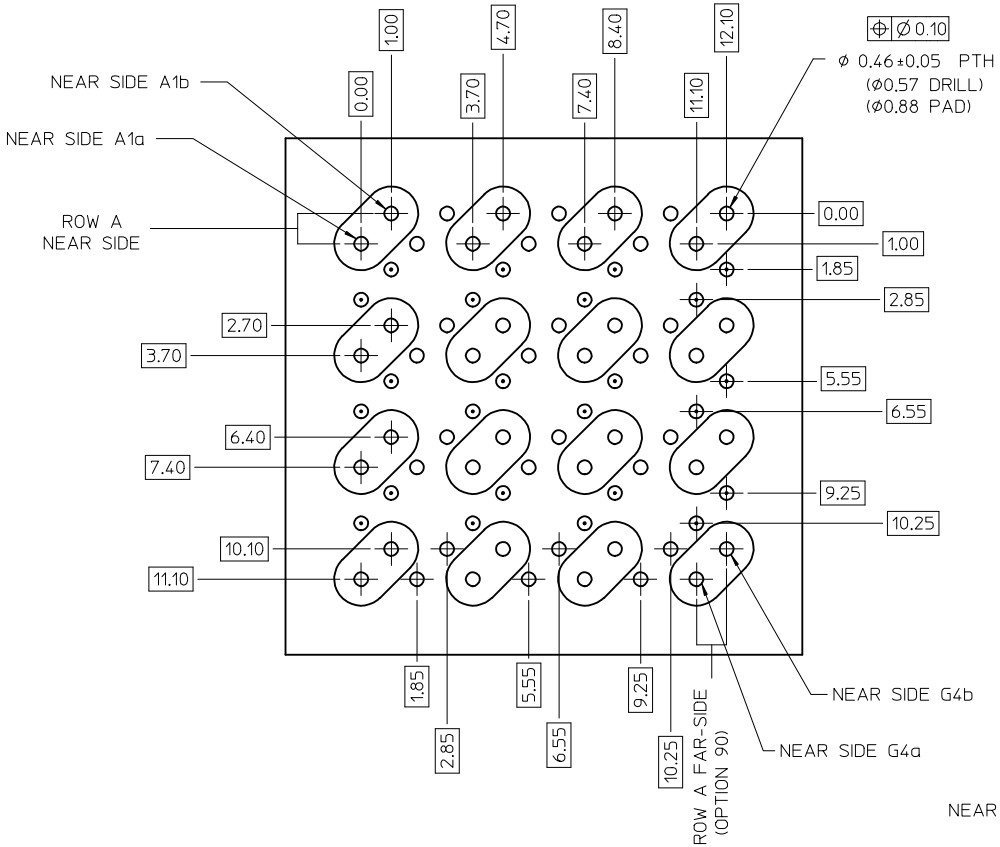
GENERAL TOLERANCES (UNLESS SPECIFIED)

	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
SCALE	4:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	BPISZCZOR
DATE	2007/01/25
CHECKED BY	JLAURX
DATE	2007/02/06
APPROVED BY	CBIXLER
DATE	2007/02/06
MATERIAL NO.	SEE CHART
TITLE	I-TRAC BACKPLANE 7 ROW UNGUIDED ASSEMBLY SALES DRAWING
	MOLEX INCORPORATED
DOCUMENT NO.	SD-76015-001
SHEET NO.	3 OF 4
SIZE	C

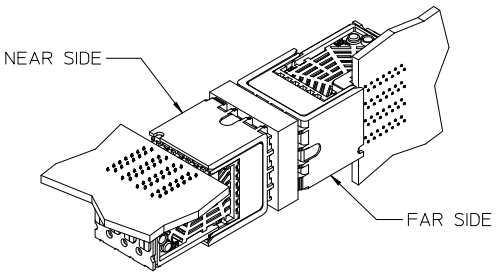
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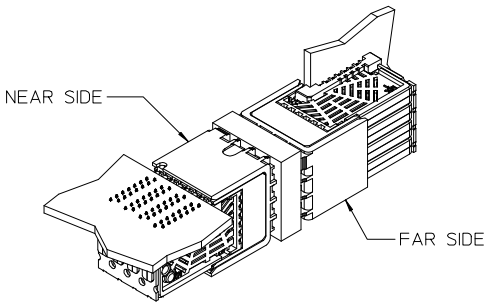
Orthogonal PCB Layout

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:

SIGNAL PAIRS (SHARED VIAS)

NEAR SIDE GROUNDS

FAR SIDE GROUNDS

REV ORTHO PCB LAYOUT
EC NO: UCP2009-2507 2009/04/16
DRWN: CSTEWART 2009/04/17
CHKD: JBINGHAM 2009/04/17
APPR: JBINGHAM 2009/04/17
DESCRIPTION
D
REV

QUALITY SYMBOLS
▼=0
▽C=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
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: BPISZCZOR DATE: 2007/01/25
CHECKED BY: JLAURX DATE: 2007/02/06
APPROVED BY: CBIXLER DATE: 2007/02/06

TITLE: I-TRAC BACKPLANE 7 ROW UNGUIDED ASSEMBLY SALES DRAWING

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-76015-001
SHEET NO.: 4 OF 4
SIZE: C

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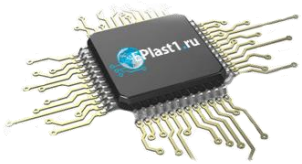
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.