

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0753310664

Status:

Active

Overview:

gbx\_backplane\_connector\_system

Description:

1.85mm by 1.85mm (.073 by .073") Pitch 3-Pair GbX® Backplane Connector System, Power Module, 6 Circuits, 1.27µm (50µ") Gold (Au)

Documents:

Drawing (PDF)

Product Specification PS-75221-999 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

UL

E29179

General

Product Family

Series

Application

Application Tooling Documents

Comments

Component Type

Overview

Product Name

Style

Backplane Connectors

75331

Backplane

<a href="http://www.molex.com/pdm\_docs/ats/TM-622022099.pdf">Tooling Manual</a>

Blade Length A 6.00mm, B 6.00mm, C 4.00mm

Power Header

gbx\_backplane\_connector\_system

GbX®

N/A

Physical

Circuits (Loaded)

Circuits (maximum)

Circuits Detail

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)

6

6

Rows A, B & C

Gray (Dark)

200

Yes

94V-0

No

None

High Performance Alloy (HPA)

Gold

Tin-Lead

High Temperature Thermoplastic

N/A

3

3

Vertical

0.090 In

2.28 mm

Yes

Yes

0.063 In

1.60 mm

Tube

0.000 In

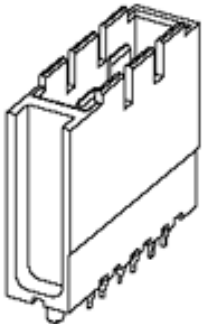
0.00 mm

0.102 In

2.60 mm

50

1.25



Series  
image - Reference only

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



Pb

Need more information on product environmental compliance?

Email [productcompliance@molex.com](mailto: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  
75331Series

Mates With  
75292 GbX® Daughtercard

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 #  |
|-------------------------------|------------|
| GbX® Single Pin Repair Tool   | 0622022090 |
| GbX® Shield Removal Tool      | 0622022100 |
| GbX® 3 Pair 1-Up Power Module | 0622022580 |

|                                |                              |
|--------------------------------|------------------------------|
| Plating min: Termination (μin) | 30                           |
| Plating min: Termination (μm)  | 0.75                         |
| Polarized to PCB               | Yes                          |
| Stackable                      | No                           |
| Surface Mount Compatible (SMC) | Yes                          |
| Temperature Range - Operating  | 105°C                        |
| Termination Interface: Style   | Through Hole - Compliant Pin |

**Electrical**

|                               |                  |
|-------------------------------|------------------|
| Current - Maximum per Contact | 6A               |
| Data Rate                     | 8.0 Gbps         |
| Real Signals (per 25mm)       | 0                |
| Shield Type                   | N/A              |
| Shielded                      | No               |
| Voltage - Maximum             | 120V AC (RMS)/DC |

**Material Info**

**Reference - Drawing Numbers**

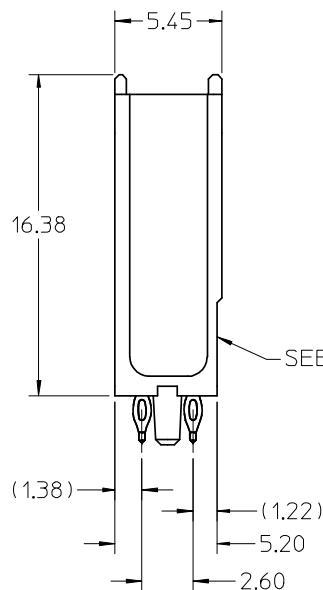
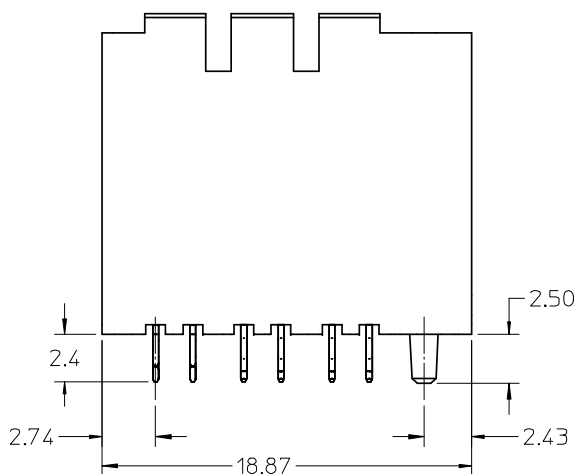
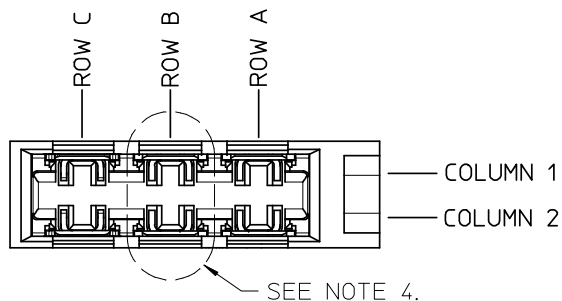
|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-70873-571 |
| Product Specification   | PS-75221-999 |
| Sales Drawing           | SD-75331-001 |

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10 9 8 7 6 5 4 3 2 1

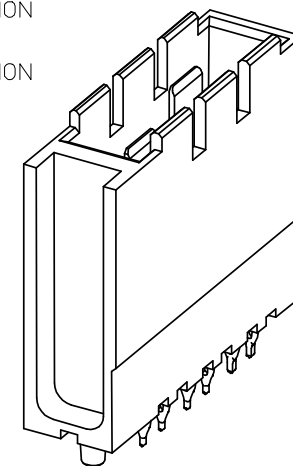


### 1-UP ASSEMBLY PART NUMBER

7 5 3 3 1 - 0 A B C  
- TIN/LEAD PLATED PRODUCT -  
FOR EACH ROW LOCATION A, B, C:  
0 = VOID  
4 = 4.5 mm WIPE  
6 = 6.0 mm WIPE  
7 = 7.5 mm WIPE  
- LEAD-FREE PLATED PRODUCT -  
FOR EACH ROW LOCATION A, B, C:  
0 = VOID  
2 = 4.5 mm WIPE  
3 = 6.0 mm WIPE  
5 = 7.5 mm WIPE

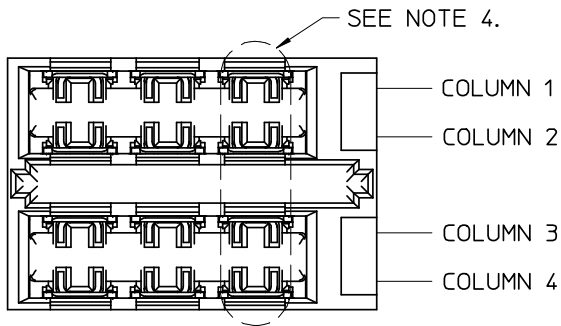
### NOTES:

1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), UL 94V-0, GRAY; CONTACT - COPPER ALLOY.
2. FINISH: SELECT GOLD IN CONTACT AREA, 50  $\mu$  " THICK, TIN/LEAD OR MATTE TIN IN COMPLIANT AREA.
3. PACKAGING PER PK-70873-571.
4. CONTACTS IN EACH ROW HAVE THE SAME WIPE LENGTH.
5. BACKPLANE ASSEMBLY MATES WITH DAUGHTERCARD POWER MODULE 75292-3\*\*\*.
6. PART SHOWN IS 75331-0467.
7. SEE OTHER SHEETS FOR ADDITIONAL NOTES.
8. WHEN INSERTING OPEN SIGNAL MODULES NEXT TO COLUMN 1 SIDE OF POWER MODULES, SIGNAL MODULES MUST BE INSERTED BEFORE THE POWERS TO AVOID INTERFERENCE BETWEEN THE TWO CONNECTOR HOUSINGS.
9. THESE PARTS CONFORM TO MOLEX PRODUCT SPECIFICATION PS-75221-999.
10. THESE PARTS CONFORM TO MOLEX COSMETIC SPECIFICATION PS-45499-002.



|                                                                                                                                    |                                   |             |                                                            |       |                            |                           |                                                                                                                                  |                                                          |                           |  |  |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|------------------------------------------------------------|-------|----------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------|--|--|
| SPEC FILE CORRECTED<br>EC NO: UCP2008-2380<br>TDRWNG:ADVARA 2008/03/27<br>CHKD: JB INGHAM 2008/03/27<br>APPR: JB INGHAM 2008/03/31 | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |       | DIMENSION STYLE<br>MM ONLY |                           | SCALE<br>4:1                                                                                                                     | DESIGN UNITS<br>METRIC                                   | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                                                    |                                   |             |                                                            | mm    | INCH                       | DRAWN BY<br>ELO           | DATE<br>2005/02/18                                                                                                               | TITLE<br>GBX 3 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY |                           |  |  |
|                                                                                                                                    |                                   |             | 4 PLACES                                                   | ± --- | ± ---                      | CHECKED BY<br>ELO         | DATE<br>2005/02/22                                                                                                               |                                                          |                           |  |  |
|                                                                                                                                    |                                   |             | 3 PLACES                                                   | ± --- | ± ---                      | APPROVED BY<br>CUNNINGHAM | DATE<br>2005/02/23                                                                                                               | MOLEX INCORPORATED                                       |                           |  |  |
|                                                                                                                                    |                                   |             | 2 PLACES                                                   | ± --- | ± ---                      | MATERIAL NO.<br>SEE CHART | DOCUMENT NO.<br>SD-75331-001                                                                                                     |                                                          |                           |  |  |
| 1 PLACE                                                                                                                            | ± ---                             | ± ---       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SIZE<br>B                  |                           | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                          |                           |  |  |

10 9 8 7 6 5 4 3 2 1



### 2-UP ASSEMBLY PART NUMBER

7 5 3 3 2 - 0 A B C

- TIN/LEAD PLATED PRODUCT -

FOR EACH ROW LOCATION A, B, C:

0 = VOID

4 = 4.5 mm WIPE

6 = 6.0 mm WIPE

7 = 7.5 mm WIPE

- LEAD-FREE PLATED PRODUCT -

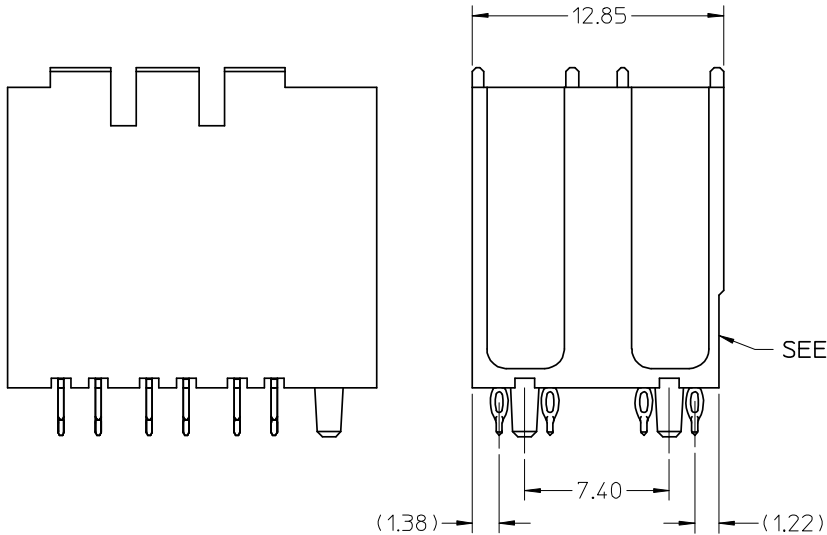
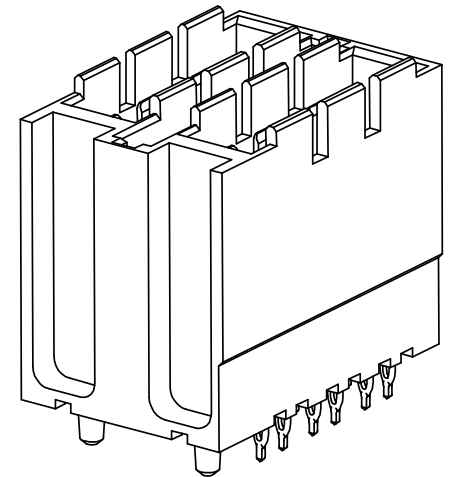
FOR EACH ROW LOCATION A, B, C:

0 = VOID

2 = 4.5 mm WIPE

3 = 6.0 mm WIPE

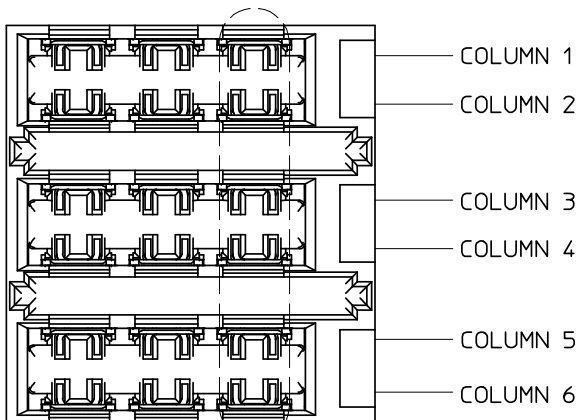
5 = 7.5 mm WIPE



SEE SHEET 1 FOR ADDITIONAL INFORMATION  
CHECK WITH PRODUCT MANAGER FOR AVAILABILITY

|                                                                                                                              |             |                                   |                                       |                     |                            |             |              |                                                              |                                                                                                                                  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|---------------------------------------|---------------------|----------------------------|-------------|--------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| SEE SHEET ONE<br>EC NO: UCP2008-2380<br>DRAWN: DWARVARA 2008/03/27<br>CHKD: JBINGHAM 2008/03/27<br>APPR: JBINGHAM 2008/03/31 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |                     | DIMENSION STYLE<br>MM ONLY |             | SCALE<br>4:1 | DESIGN UNITS<br>METRIC                                       | THIRD ANGLE PROJECTION                                                                                                           |  |  |  |
|                                                                                                                              |             |                                   |                                       | mm                  | INCH                       | DRAWN BY    | DATE         | TITLE<br><br>GBX 3 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY |                                                                                                                                  |  |  |  |
|                                                                                                                              |             |                                   | 4 PLACES                              | ± ---               | ± ---                      | ELO         | 2005/02/18   |                                                              |                                                                                                                                  |  |  |  |
|                                                                                                                              |             |                                   | 3 PLACES                              | ± ---               | ± ---                      | CHECKED BY  | DATE         | MOLEX INCORPORATED                                           |                                                                                                                                  |  |  |  |
|                                                                                                                              |             |                                   | 2 PLACES                              | ± ---               | ± ---                      | ELO         | 2005/02/22   |                                                              |                                                                                                                                  |  |  |  |
|                                                                                                                              |             |                                   | 1 PLACE                               | ± ---               | ± ---                      | APPROVED BY | DATE         | DOCUMENT NO.<br>SD-75331-001                                 |                                                                                                                                  |  |  |  |
| ANGULAR ± ---°                                                                                                               |             | CUNNINGHAM                        | 2005/02/23                            | SHEET NO.<br>2 OF 4 |                            |             |              |                                                              |                                                                                                                                  |  |  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                   |             |                                   | MATERIAL NO.<br><br>SEE CHART         |                     |                            |             |              |                                                              | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |  |  |
| REV                                                                                                                          |             |                                   |                                       |                     | SIZE<br>B                  |             |              |                                                              |                                                                                                                                  |  |  |  |

9 8 7 6 5 4 3 2 1



SEE NOTE 4.

### 3-UP ASSEMBLY PART NUMBER

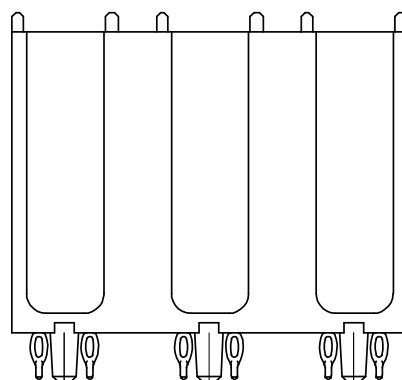
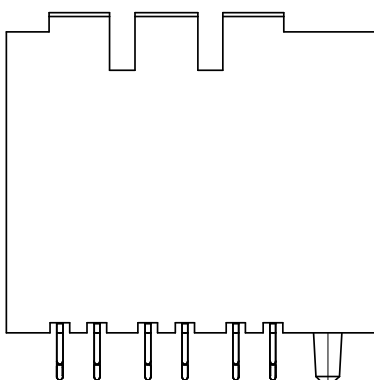
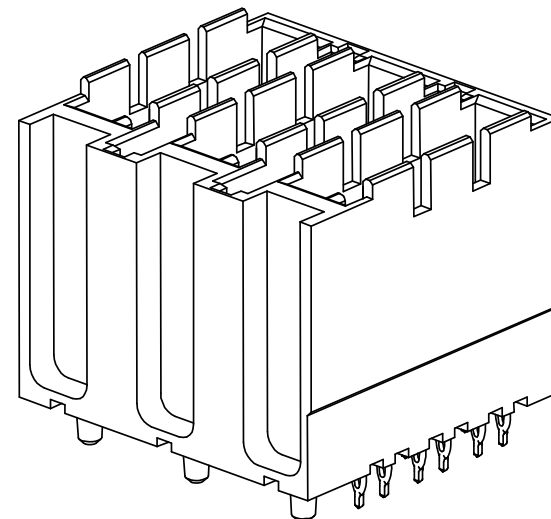
7 5 3 3 3 - 0 A B C

- TIN/LEAD PLATED PRODUCT -  
FOR EACH ROW LOCATION A, B, C:

0 = VOID  
4 = 4.5 mm WIPE  
6 = 6.0 mm WIPE  
7 = 7.5 mm WIPE

- LEAD-FREE PLATED PRODUCT -  
FOR EACH ROW LOCATION A, B, C:

0 = VOID  
2 = 4.5 mm WIPE  
3 = 6.0 mm WIPE  
5 = 7.5 mm WIPE



SEE NOTE 8.

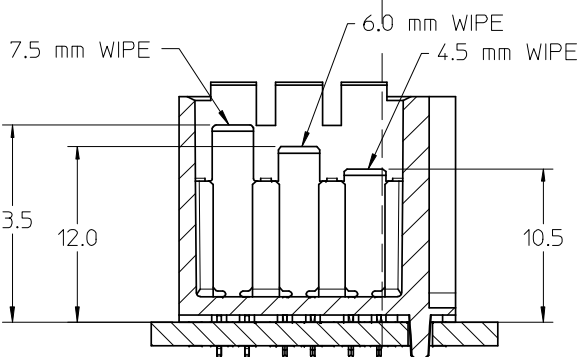
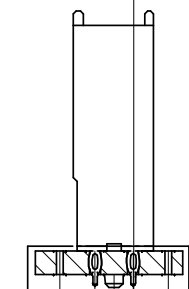
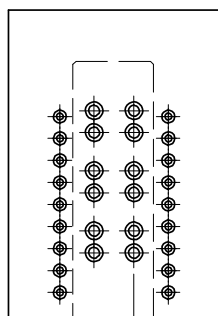
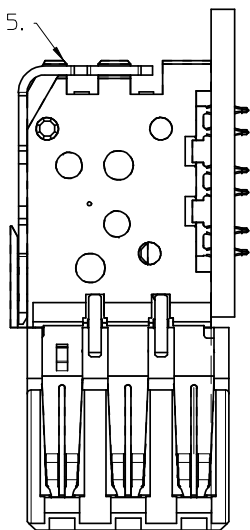
14.80

SEE SHEET 1 FOR ADDITIONAL INFORMATION  
CHECK WITH PRODUCT MANAGER FOR AVAILABILITY

|                                                                                                                                   |             |                                   |                                                            |                                                                                                                                  |                            |                           |                    |                                                          |                                                                     |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------|--------------------|----------------------------------------------------------|---------------------------------------------------------------------|--|--|--|--|
| SEE SHEET ONE<br>EC NO: UCP2008-2380<br>TIDRAWN: D VARIARA 2008/03/27<br>CHKD: JB INGHAM 2008/03/27<br>APPR: JB INGHAM 2008/03/31 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |                                                                                                                                  | DIMENSION STYLE<br>MM ONLY |                           | SCALE<br>4:1       | DESIGN UNITS<br>METRIC                                   | THIRD ANGLE<br>PROJECTION                                           |  |  |  |  |
|                                                                                                                                   |             |                                   |                                                            | mm                                                                                                                               | INCH                       | DRAWN BY<br>ELO           | DATE<br>2005/02/18 | TITLE<br>GBX 3 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY |                                                                     |  |  |  |  |
|                                                                                                                                   |             |                                   | 4 PLACES                                                   | ± ---                                                                                                                            | ± ---                      | CHECKED BY<br>ELO         | DATE<br>2005/02/22 |                                                          |                                                                     |  |  |  |  |
|                                                                                                                                   |             |                                   | 3 PLACES                                                   | ± ---                                                                                                                            | ± ---                      | APPROVED BY<br>CUNNINGHAM |                    | DATE<br>2005/02/23                                       | MOLEX INCORPORATED<br>DOCUMENT NO. SD-75331-001<br>SHEET NO. 3 OF 4 |  |  |  |  |
|                                                                                                                                   |             |                                   | 2 PLACES                                                   | ± ---                                                                                                                            | ± ---                      |                           |                    |                                                          |                                                                     |  |  |  |  |
|                                                                                                                                   |             |                                   | 1 PLACE                                                    | ± ---                                                                                                                            | ± ---                      |                           |                    |                                                          |                                                                     |  |  |  |  |
|                                                                                                                                   |             |                                   | ANGULAR ± ---°                                             |                                                                                                                                  |                            |                           |                    |                                                          |                                                                     |  |  |  |  |
|                                                                                                                                   |             |                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                                  |                            | SEE CHART                 |                    |                                                          |                                                                     |  |  |  |  |
|                                                                                                                                   |             |                                   | SIZE<br>B                                                  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                            |                           |                    |                                                          |                                                                     |  |  |  |  |

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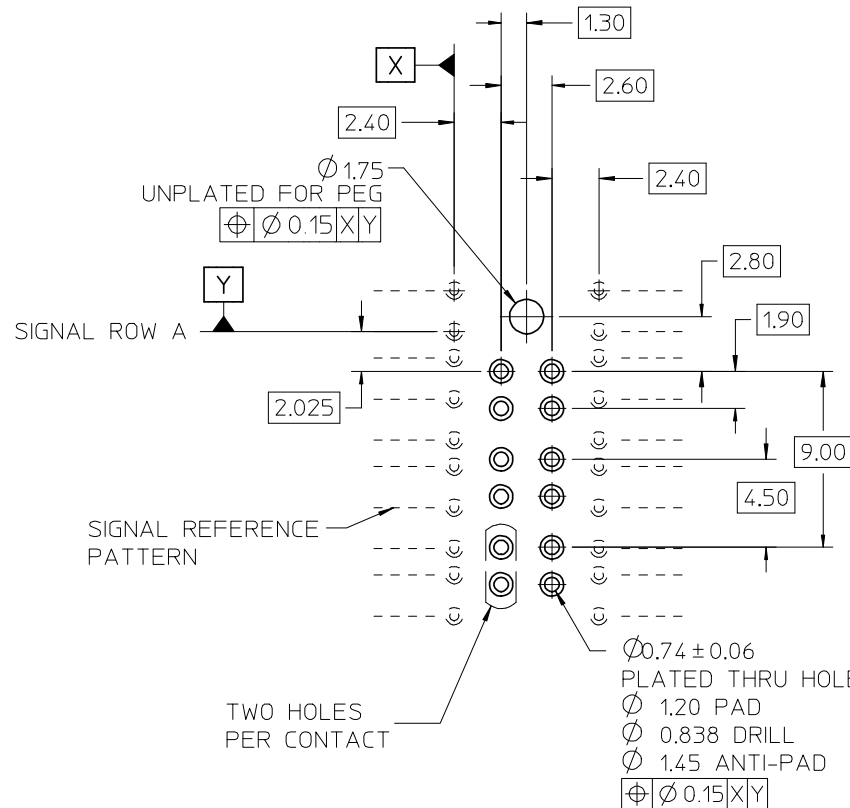
SEE NOTE 5.



DC BOARD EDGE TO  
CENTERLINE OF BP TAIL

## HOLE PATTERN FOR 1-UP ASSEMBLY

- 1.) ADD 7.40 FROM CENTERLINES OF PEGS FOR MULTIPLE UP ASSEMBLIES.
- 2.) ADD 5.55 FROM CENTERLINE TO CENTERLINE OF PEG FOR INDIVIDUAL POWER MODULES STACKED NEXT TO EACH OTHER.



|                                                                                                                                 |             |                                                                                                                               |                                       |                              |                            |                           |                    |                                                          |                           |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------|----------------------------|---------------------------|--------------------|----------------------------------------------------------|---------------------------|--|--|
| SEE SHEET ONE<br>EC NO: UCP2008-2380<br>TIDRWN: DVARVARA 2008/03/27<br>CHKD: JB INGHAM 2008/03/27<br>APPR: JB INGHAM 2008/03/31 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0                                                                                             | GENERAL TOLERANCES (UNLESS SPECIFIED) |                              | DIMENSION STYLE<br>MM ONLY |                           | SCALE<br>4:1       | DESIGN UNITS<br>METRIC                                   | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                                                 |             |                                                                                                                               |                                       | mm                           | INCH                       | DRAWN BY<br>ELO           | DATE<br>2005/02/18 | TITLE<br>GBX 3 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY |                           |  |  |
|                                                                                                                                 |             |                                                                                                                               | 4 PLACES                              | ± ---                        | ± ---                      | CHECKED BY<br>ELO         | DATE<br>2005/02/22 |                                                          |                           |  |  |
|                                                                                                                                 |             |                                                                                                                               | 3 PLACES                              | ± ---                        | ± ---                      | APPROVED BY<br>CUNNINGHAM | DATE<br>2005/02/23 |                                                          |                           |  |  |
|                                                                                                                                 |             |                                                                                                                               | 2 PLACES                              | ± ---                        | ± ---                      | MOLEX MOLEX INCORPORATED  |                    |                                                          |                           |  |  |
|                                                                                                                                 |             |                                                                                                                               | 1 PLACE                               | ± ---                        | ± ---                      |                           |                    |                                                          |                           |  |  |
|                                                                                                                                 |             |                                                                                                                               | ANGULAR ± ---°                        |                              | MATERIAL NO.               | DOCUMENT NO.              | SHEET NO.          |                                                          |                           |  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                      |             |                                                                                                                               |                                       | SEE PREVIOUS<br>SD-75331-001 |                            | 4 OF 4                    |                    |                                                          |                           |  |  |
| REV                                                                                                                             | SIZE<br>B   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                       |                              |                            |                           |                    |                                                          |                           |  |  |

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

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

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