

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0754921025](#)  
**Status:** **Active**  
**Overview:** [gbx\\_backplane\\_connector\\_system](#)  
**Description:** 1.85mm by 1.85mm (.073 by .073") Pitch 2-Pair GbX® Backplane Connector System, Power Module, 4 Circuits, 1.27µm (50µ") Gold (Au), Lead Free

**Documents:**  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-75221-999 \(PDF\)](#)

**Agency Certification**

UL E29179

**General**

Product Family Backplane Connectors  
Series [75492](#)  
Application Backplane  
Application Tooling Documents <a href="http://www.molex.com/pdm\_docs/ats/TM-622022099.pdf">Tooling Manual</a>  
Comments Blade Length A 4.50mm, B 7.50mm  
Component Type Power Header  
Overview [gbx\\_backplane\\_connector\\_system](#)  
Product Name GbX®  
Style N/A

**Physical**

Circuits (Loaded) 4  
Circuits (maximum) 4  
Circuits Detail Rows A & B  
Color - Resin Gray (Dark)  
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 N/A  
Number of Pairs 2  
Number of Rows 2  
Orientation Vertical  
PC Tail Length (in) 0.090 In  
PC Tail Length (mm) 2.28 mm  
PCB Locator Yes  
PCB Retention Yes  
PCB Thickness Recommended (in) 0.063 In  
PCB Thickness Recommended (mm) 1.60 mm  
Packaging Type Tube  
Pitch - Mating Interface (in) 0.730 In  
Pitch - Mating Interface (mm) 1.85 mm  
Pitch - Term. Interface (in) 0.102 In  
Pitch - Term. Interface (mm) 2.60 mm  
Plating min: Mating (µin) 50  
Plating min: Mating (µm) 1.25

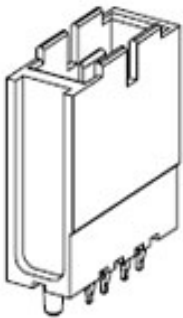


image - Reference only

Series

**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**  
**Halogen-Free**

**China RoHS**



**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**  
[75492Series](#)

**Mates With**  
[75292 GbX® Daughtercard](#)

|                                |                              |
|--------------------------------|------------------------------|
| 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         |
| Shielded                      | No               |
| Voltage - Maximum             | 120V AC (RMS)/DC |

**Material Info**

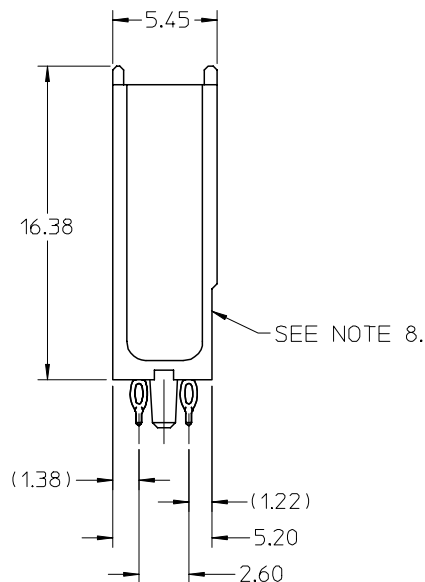
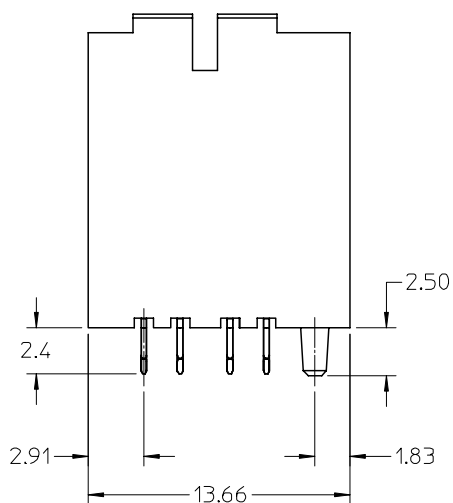
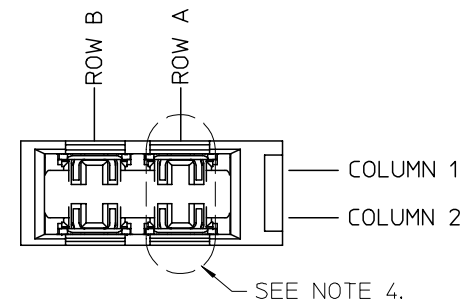
**Reference - Drawing Numbers**

|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-70873-578 |
| Product Specification   | PS-75221-999 |
| Sales Drawing           | SD-75492-001 |

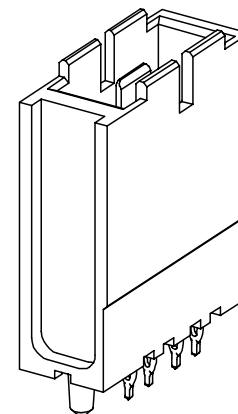
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10 9 8 7 6 5 4 3 2 1



- 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-70873-578.
  4. CONTACTS IN EACH ROW HAVE THE SAME WIPE LENGTH.
  5. BACKPLANE ASSEMBLY MATES WITH DAUGHTERCARD POWER MODULE 75292-2\*\*\*.
  6. PART SHOWN IS 75492-1067.
  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 CLASS B.



### 1-UP ASSEMBLY PART NUMBER

7 5 4 9 2 - 1 0 A B

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

4 = 4.5 mm

6 = 6.0 mm

7 = 7.5 mm

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

2 = 4.5 mm

3 = 6.0 mm

5 = 7.5 mm

SEE SHEET 4 FOR HOLE PATTERN LAYOUT

|                                                                                                                                      |                                 |                    |                                                            |       |                            |                                                                                                                                  |                     |                                                              |                        |              |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------|------------------------------------------------------------|-------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------|------------------------|--------------|--|--|
| ADDED NOTES 9 & 10<br>EC NO: UCP2008-0426<br>DRAWN: STEWART 2007/08/29<br>CHKD: J. BINGHAM 2007/08/30<br>APPR: J. BINGHAM 2007/08/31 | QUALITY SYMBOLS<br><br>=0<br>=0 | DESCRIPTION<br>REV | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |       | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>4:1        | DESIGN UNITS<br>METRIC                                       | THIRD ANGLE PROJECTION |              |  |  |
|                                                                                                                                      |                                 |                    |                                                            | mm    | INCH                       | DRAWN BY<br>ELO                                                                                                                  | DATE<br>2005/07/01  | TITLE<br><br>GBX 2 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY |                        |              |  |  |
|                                                                                                                                      |                                 |                    | 4 PLACES                                                   | ± --- | ± ---                      | CHECKED BY                                                                                                                       | DATE<br>2005/07/01  |                                                              |                        |              |  |  |
|                                                                                                                                      |                                 |                    | 3 PLACES                                                   | ± --- | ± ---                      | ELO                                                                                                                              |                     |                                                              |                        |              |  |  |
|                                                                                                                                      |                                 |                    | 2 PLACES                                                   | ± --- | ± ---                      | APPROVED BY                                                                                                                      | DATE<br>2005/07/06  |                                                              |                        |              |  |  |
|                                                                                                                                      |                                 |                    | 1 PLACE                                                    | ± --- | ± ---                      | BIXLER                                                                                                                           |                     | MOLEX INCORPORATED                                           |                        |              |  |  |
|                                                                                                                                      |                                 |                    | ANGULAR ± 5 °                                              |       | MATERIAL NO.               | DOCUMENT NO.                                                                                                                     | SHEET NO.<br>1 OF 4 |                                                              |                        |              |  |  |
|                                                                                                                                      |                                 |                    | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SEE CHART                  |                                                                                                                                  |                     |                                                              |                        | SD-75492-001 |  |  |
|                                                                                                                                      |                                 |                    | C                                                          | REV   | SIZE<br>B                  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                     |                                                              |                        |              |  |  |

9 8 7 6 5 4 3 2 1

## 2-UP ASSEMBLY PART NUMBER

7 5 4 9 2 - 2 0 A B

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

4 = 4.5 mm

6 = 6.0 mm

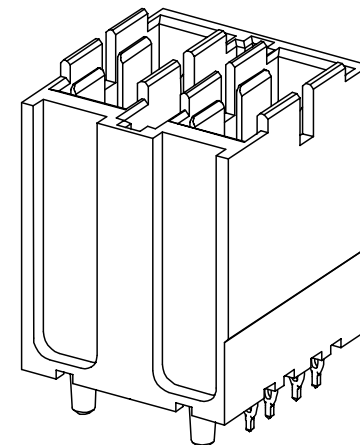
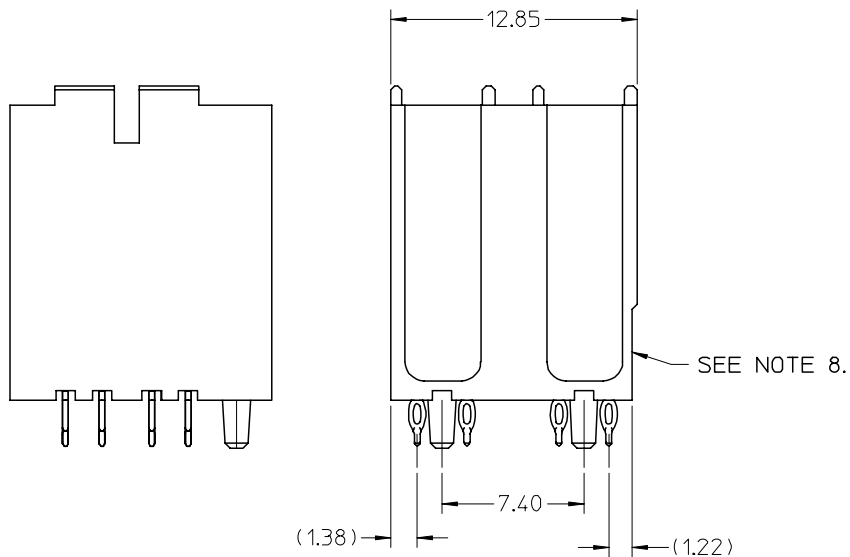
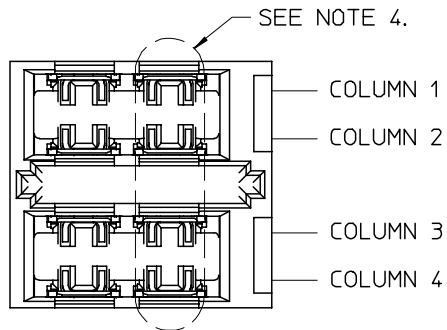
7 = 7.5 mm

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

2 = 4.5 mm

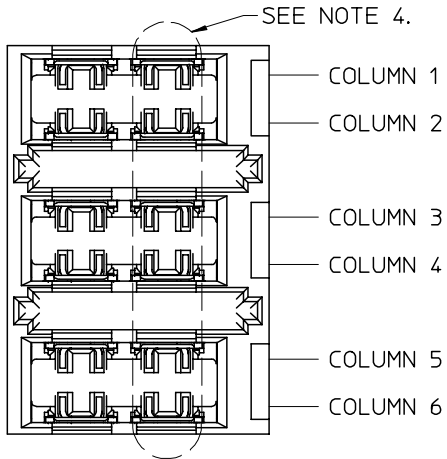
3 = 6.0 mm

5 = 7.5 mm



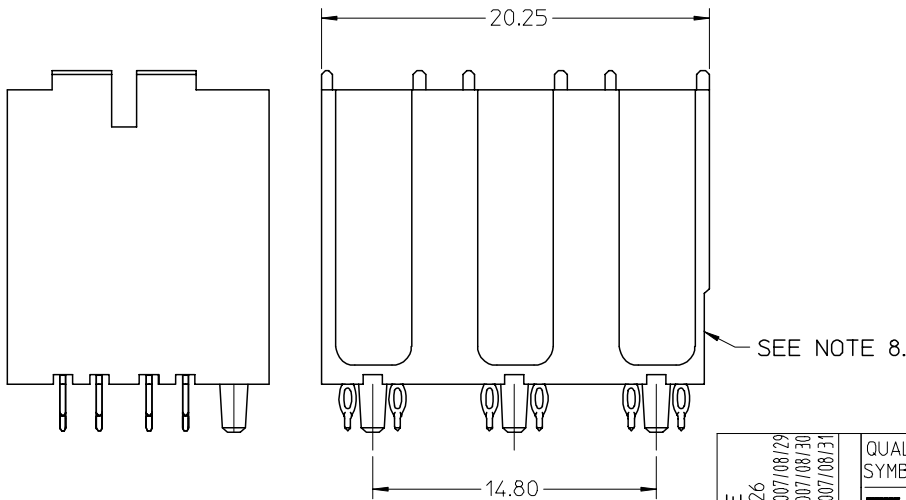
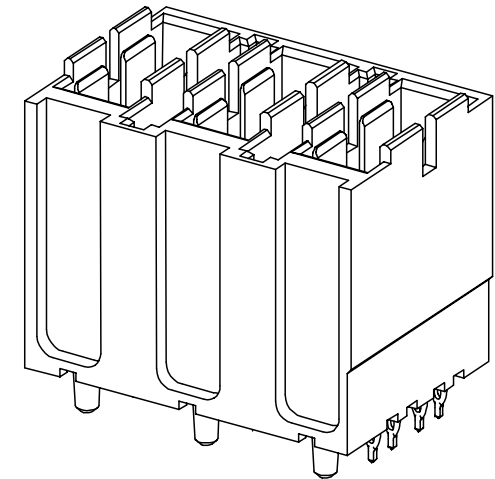
SEE SHEET 1 FOR ADDITIONAL INFORMATION  
CHECK WITH PRODUCT MANAGER FOR AVAILABILITY

|                                                                                                                           |                                   |                    |                                                            |       |                            |                 |                                                                                                                                  |                                                          |                           |                     |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------|------------------------------------------------------------|-------|----------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------|---------------------|--|--|--|
| SEE SHEET ONE<br>EC NO: UCP2008-0426<br>DRAWN: STEWART 2007/08/29<br>CHKD: BINGHAM 2007/08/30<br>APPR: BINGHAM 2007/08/31 | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | DESCRIPTION<br>REV | 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>2005/07/01                                                                                                               | TITLE<br>GBX 2 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY |                           |                     |  |  |  |
|                                                                                                                           |                                   |                    | 4 PLACES                                                   | ± --- | ± ---                      | CHECKED BY      | DATE                                                                                                                             |                                                          |                           |                     |  |  |  |
|                                                                                                                           |                                   |                    | 3 PLACES                                                   | ± --- | ± ---                      | ELO             | 2005/07/01                                                                                                                       | MOLEX INCORPORATED                                       |                           |                     |  |  |  |
|                                                                                                                           |                                   |                    | 2 PLACES                                                   | ± --- | ± ---                      | APPROVED BY     | DATE                                                                                                                             |                                                          |                           |                     |  |  |  |
|                                                                                                                           |                                   |                    | 1 PLACE                                                    | ± --- | ± ---                      | BIXLER          | 2005/07/06                                                                                                                       |                                                          |                           |                     |  |  |  |
|                                                                                                                           |                                   |                    | ANGULAR ± 5 °                                              |       |                            | MATERIAL NO.    |                                                                                                                                  | DOCUMENT NO.                                             |                           | SHEET NO.<br>2 OF 4 |  |  |  |
|                                                                                                                           |                                   |                    | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       |                            | SEE CHART       |                                                                                                                                  | SD-75492-001                                             |                           |                     |  |  |  |
|                                                                                                                           |                                   |                    |                                                            |       |                            | SIZE<br>B       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                          |                           |                     |  |  |  |
|                                                                                                                           |                                   |                    |                                                            |       |                            |                 |                                                                                                                                  |                                                          |                           |                     |  |  |  |
|                                                                                                                           |                                   |                    |                                                            |       |                            |                 |                                                                                                                                  |                                                          |                           |                     |  |  |  |



### 3-UP ASSEMBLY PART NUMBER

- 7 5 4 9 2 - 3 0 A B
- TIN/LEAD PLATED PRODUCT -  
FOR EACH ROW LOCATION A, B:  
4 = 4.5 mm  
6 = 6.0 mm  
7 = 7.5 mm
  - LEAD-FREE PLATED PRODUCT -  
FOR EACH ROW LOCATION A, B:  
2 = 4.5 mm  
3 = 6.0 mm  
5 = 7.5 mm



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

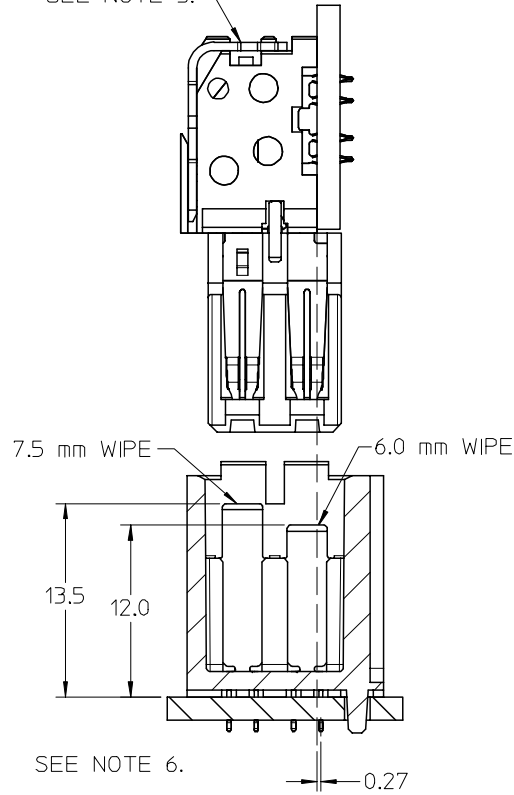
|                                                                                                                           |                                   |             |                                                            |             |                            |                                                                                                                               |                                                                                                          |                        |                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|------------------------------------------------------------|-------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------|
| SEE SHEET ONE<br>EC NO: UCP2008-0426<br>DRAWN: STEWART 2007/08/29<br>CHKD: BINGHAM 2007/08/30<br>APPR: BINGHAM 2007/08/31 | 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 PROJECTION |
|                                                                                                                           |                                   |             | mm                                                         | INCH        | DRAWN BY<br>ELO            | DATE<br>2005/07/01                                                                                                            | TITLE<br><br>GBX 2 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY                                             |                        |                                                                                                              |
|                                                                                                                           |                                   |             | 4 PLACES                                                   | ± --- ± --- | CHECKED BY                 | DATE                                                                                                                          |                                                                                                          |                        |                                                                                                              |
|                                                                                                                           |                                   |             | 3 PLACES                                                   | ± --- ± --- | ELO                        | 2005/07/01                                                                                                                    |                                                                                                          |                        |                                                                                                              |
|                                                                                                                           |                                   |             | 2 PLACES                                                   | ± --- ± --- | APPROVED BY                | DATE                                                                                                                          |                                                                                                          |                        |                                                                                                              |
|                                                                                                                           |                                   |             | 1 PLACE                                                    | ± --- ± --- | BIXLER                     | 2005/07/06                                                                                                                    |  MOLEX INCORPORATED |                        |                                                                                                              |
|                                                                                                                           |                                   |             | ANGULAR ± 5 °                                              |             | MATERIAL NO.               |                                                                                                                               | DOCUMENT NO.                                                                                             |                        | SHEET NO.                                                                                                    |
|                                                                                                                           |                                   |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |             | SEE CHART                  |                                                                                                                               | SD-75492-001                                                                                             |                        | 3 OF 4                                                                                                       |
|                                                                                                                           |                                   |             |                                                            |             | SIZE<br>B                  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                                          |                        |                                                                                                              |

10 9 8 7 6 5 4 3 2 1

### HOLE PATTERN FOR 1-UP ASSEMBLY

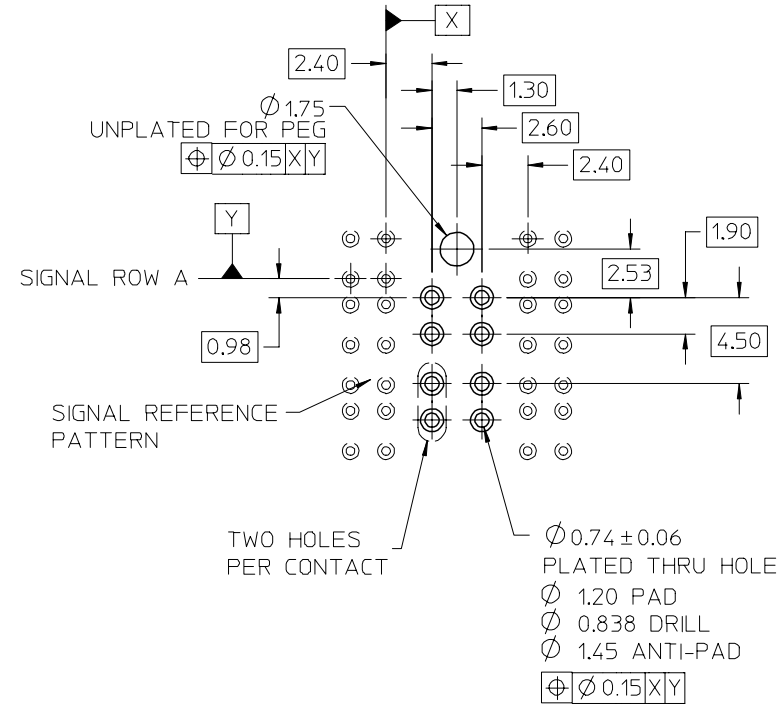
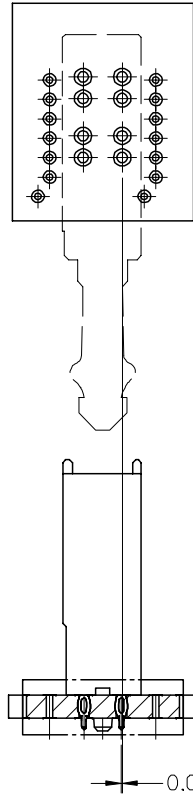
- 1.) ADD 7.40 FROM CENTERLINES OF PEG FOR MULTIPLE UP ASSEMBLIES
- 2.) USE 5.55 FROM CENTERLINE TO CENTERLINE OF PEG FOR INDIVIDUAL POWER MODULES STACKED NEXT TO EACH OTHER.

SEE NOTE 5.



SEE NOTE 6.

0.27  
DC BOARD EDGE TO  
CENTERLINE OF BP TAIL



SEE SHEET ONE  
EC NO: UCP2008-0426  
DRAWN: STEWART 2007/08/29  
CHKD: BINGHAM 2007/08/30  
APPR: BINGHAM 2007/08/31

QUALITY  
SYMBOLS  
=0  
=0  
DESCRIPTION  
REV

|                                                            | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |       |
|------------------------------------------------------------|------------------------------------------|-------|
|                                                            | mm                                       | INCH  |
| 4 PLACES                                                   | ± ---                                    | ± --- |
| 3 PLACES                                                   | ± ---                                    | ± --- |
| 2 PLACES                                                   | ± ---                                    | ± --- |
| 1 PLACE                                                    | ± ---                                    | ± --- |
| ANGULAR ± 5 °                                              |                                          |       |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          |       |

| DIMENSION STYLE<br>MM ONLY |            |
|----------------------------|------------|
| DRAWN BY                   | DATE       |
| ELO                        | 2005/07/01 |
| CHECKED BY                 | DATE       |
| ELO                        | 2005/07/01 |
| APPROVED BY                | DATE       |
| BIXLER                     | 2005/07/06 |
| MATERIAL NO.               |            |
| SEE PREVIOUS               |            |
| SIZE                       |            |
| B                          |            |

|                                                                                                                                  |                        |                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|
| SCALE<br>4:1                                                                                                                     | DESIGN UNITS<br>METRIC |  THIRD ANGLE<br>PROJECTION |
| TITLE<br>GBX 2 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY                                                                         |                        |                                                                                                                 |
| MOLEX INCORPORATED                                                                                                               |                        |                                                                                                                 |
| DOCUMENT NO.<br>SD-75492-001                                                                                                     |                        | SHEET NO.<br>4 OF 4                                                                                             |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                                                                                                                 |

9 8 7 6 5 4 3 2 1

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)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А